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# HP 9000 Enterprise Servers Ordering Guide

International Version

*Hardware*

*Software*

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*Support*

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## Introduction to Ordering Hardware

HP 9000 Enterprise Servers are ordered using a menu process. The menus are constructed as structured solution products or SSPs.

Certain products such as E-Class, T-Class, and V-Class use a separate part number to reference an SPP menu structure. This part number must be ordered first, and all other subsequent products and options that are part of the SSP menu must be ordered as sub-items to the SSP part number.

Other products, where possible, such as EPS/MCSS solution, K-Class, D-Class, R-Class, and A-Class eliminate the need to order a separate part number for the SSP. The server part number in this case is the SPP number. All subsequent products and options that are part of their respective SSP menus must be ordered as sub-items to the server part number. Please note EPS/MCSS solution has a new ordering structure as indicated in Chapter 2.

Ordering products and their specified options within an SSP structure will ensure that internal system components are integrated into a System Processing Unit (SPU) at the factory. The SPU and/or external peripherals can also be integrated into 2m-, 1.6m- or 1.25m-high cabinets at the factory. V-Class and T-Class Enterprise Servers come with their own cabinet. V-Class and T-Class peripherals are all external and can be factory-integrated into standard 19" cabinets.

The HP-UX operating system, along with the user license and media, is ordered from the system menus. All other HP software products are listed in the Software sections of this guide. Many of the software products are available pre-loaded and pre-configured with the Instant Ignition Program.

## Systems Warranty

<b>Systems</b>	<b>U.S. Base Warranty</b>
HP 9000 D-Class, R-Class & L-Class Enterprise Servers	Three-Year Next-Day (Mon-Fri) On-site Support
HP 9000 A-Class, K-Class & N-Class Enterprise Servers	One-Year, Next-Day (Mon-Fri) On-site Support
HP 9000 T-Class & V-Class Enterprise Servers	One-Year Four-Hour (Mon-Fri) On-site Support

Please note that the standard systems warranty may be different in other countries.

The System Support Options Program for each server provides the ability to upgrade the response time during the warranty period. Information on this program, as well as other HP support services, is located in the Support sections of this guide. Warranty response times may be different in other countries, depending upon local market needs. Also, warranty response times for standalone peripherals may differ from those for the SPU.

## Ordering Instant Ignition

1. When ordering a system, select the Instant Ignition product from any of the system menus in Chapter Two.
2. Select the desired software products from the software sections.
3. Order each eligible product with the integration option (0D1).
4. The configuration defaults were designed and tested to work well for the majority of HP customers. Refer to the Configuration Guide for the Instant Ignition Default Configuration reference table. A custom configuration can be ordered by using the System Integration Specification Plan (SISP) product. The SISP product can be used to customize Root Volume Group LVM and Kernel Parameters, Racking Preferences, and Patch bundle loading. Journaled File System can also be specified instead of the standard UNIX File System.

**Recommendation: Order at least one copy of backup media per site or workgroup for HP-UX and any additional software products ordered in Step 4.**

## HP-9000 Entry-Level Enterprise Servers: A180 and A180C

System	Minimum System	Maximum System	Standard Features	Standard HP-UX Internet Features
A180 and A180C	<ul style="list-style-type: none"> <li>– 128 MB memory</li> <li>– diskless (no disks)</li> <li>– 1 CPU (entry system is A180 with PA-RISC PA-7300LC 180 MHZ processor)</li> </ul>	<ul style="list-style-type: none"> <li>– 2 GB memory</li> <li>– 2 disk drives, 4 or 9 GB</li> <li>– 2 I/O slots that are PCI/HSC combination slots</li> <li>– Highest power system is A180C. This model adds 1 MB cache to the A180 for a performance boost</li> </ul>	<ul style="list-style-type: none"> <li>– WebQOS</li> <li>– HP Secure Web Console (integrated)</li> <li>– HP-UX Special Edition unlimited user license (free)</li> <li>– Rack mountable, factory or field</li> <li>– Factory integrated memory, disk, and I/O</li> <li>– Supported by Ignite/UX</li> <li>– HP-UX 10.20 or 11.0 32</li> <li>– 100 Base-T LAN port</li> <li>– SE SCSI port</li> </ul>	<ul style="list-style-type: none"> <li>– Standard Web Services</li> <li>– Netscape Fast Track</li> <li>– Oracle Web Application Server</li> <li>– Netscape Communicator</li> <li>– E-Mail</li> <li>– Mail, MailX, ELM,</li> <li>– Sendmail, MIME, SMTP, ESMTP</li> <li>– Remote Access Services</li> <li>– Telnet, ftp, anonymous ftp server</li> <li>– Internet Server Functions</li> <li>– Internet server (indtd)</li> <li>– Domain name server</li> <li>– Routing (OSPF, BIND, RIP, EGP, HELLO, gateD)</li> <li>– Network Time Protocol</li> <li>– Client Configuration Services</li> <li>– Automatic configuration for printers, PCs, workstations, and X terminals (DHCP, Bootp, tftp, rbootp)</li> </ul>

**IMPORTANT:** A class server (A180 and A180C) pricing is ENTIRELY new and is called “street pricing”. This means low list price, low discount. Discounts on these servers , memory, and disks, are significantly lower than today’s traditional discounts. I/O cards retain the traditional discounts. For more information, please see ESP keyword A-Class.

**NOTE:** for easy configuration and pricing (including the printing of the actual configurations) visit the public web site <http://eproducts.hp.com>.

	Description		Product #	Opt #	Price
1.0	<b>Server (Required -- Max 1)</b>				
	Model A180 Uniprocessor system (Includes 128 MB memory)	[ ]	A5182A*		
	Model A180C Uniprocessor system (Includes 128 MB memory and 1 MB cache)	[ ]	A5183A*		
	Enter the following menu selections as sub-items to the Server selected in section 1 above. To order support, select the desired supplemental System Support Option for each ordered product noted with an asterisk (*).				
2.0	<b>Memory Modules (Optional -- Max. 3)</b>				
	Each Module uses 2 SIMM slots. There are a total of 8 SIMM slots in the server. 2 slots utilized by 128MB base configuration, leaving 6 slots for the 3 optional memory modules.				
	128 MB high-density ECC memory module (uses 2 SIMM slots)	[ ]	A5791A	0D1	
	256 MB high-density ECC memory module (uses 2 SIMM slots)	[ ]	A5792A	0D1	
	512 MB high-density ECC memory module (uses 2 SIMM slots)	[ ]	A5808A	0D1	
3.0	<b>Internal Disk Drives (Optional -- Max. 2)</b>				
	9 GB SE SCSI-2 disk drive (4 GB drive A3660A has been phased out)	[ ]	A5806A	0D1	
	18 GB SE SCSI-2 disk drive		A5560A	0D1	
4.0	<b>External Media Drives</b>				
	Note: cables are not included with the drives. To add a cable, order C2955A for 0.5 M cable, C2908A for 1.0 M cable, and C2957A for a 2 M cable. If ordering a cable, then order a terminator, C2904A.				



	Description		Product #	Opt #	Price
	External Smart desktop DVD-ROM drive (reads CD-ROMs)	[ ]	C4314A		
	External DDS-3 Smart Desktop DAT drive	[ ]	C6364A		
5.0	<b>I/O and Networking Cards (PCI &amp; HSC) (Optional -- Max 2)</b>				
	HSC SCSI-2 Interface Card FWD	[ ]	A4107A	OD1	
	PCI Single Port 10/100 BaseT Interface Card	[ ]	A5230A	OD1	
	HSC Dual Port 10/100 BaseT Interface Card	[ ]	J3516A	OD1	
	HSC Dual Port 10/100 BaseT Interface Manuals	[ ]	J3622AA		
	PCI 4 Port 10/100 Base-T Interface Card	[ ]	A5506B	OD1	
	PCI 4 Port 10/100 Base-T Interface License	[ ]	J4254AA	OD1	
	PCI 8 Port Serial Mux Card	[ ]	J3592A	OD1	
	PCI 8 Port Serial Mux Manual	[ ]		OB1	
	HSC Remote Management (access port) Interface Card (Max. 1) Ordering this card is recommended if the Secure Web Console enhanced functions are needed and an HSC slot is available. For more information, see the Configuration Guide.	[ ]	A3342A	OD1	
5.1	Documentation for each I/O card on this server, includes release notes (Optional-Max 5)	[ ]	A5207A		
6.0	<b>Rack Installation (Optional)</b>				
	Factory integration of A-Class server into 19" wide 2M, 1.6M or 1.25M rack (rack kit hardware and integration service) Must order 2M (A4902A), 1.6M (A4901A) or 1.25M (A4900A) rack in same order section with this integration product	[ ]	A5180A		
	A-Class Rack kit (hardware only) (not needed for factory integration) (needed for field integration of each A-Class server into 19" wide cabinet at customer location) Note: See Chapter 4 of the Ordering Guide for the other peripherals that can be integrated into the cabinet	[ ]	A5214A		
7.0	<b>Power Protection – Uninterruptible power supply (UPS) (Optional -- No Max)</b>				
	* See Chapter 4 Peripherals and Accessories HP PowerTrust UPS for ordering instructions. See Rack Cabinet menu for racked UPS products.				
	PowerTrust II-LR 1.4kW/2.1kVA UPS 120V	[ ]	A1353A	*	
	PowerTrust II-LR 1.4kW/2.1kVA UPS 230V	[ ]	A1354A	*	
	PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS)	[ ]	A1357A		
	PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A		
	<b>HP-UX operating system</b>				
8.0	<b>HP-UX Operating Environment License-to-Use (Required)</b> <i>Choose one of the following Operating Environments. License applies to HP-UX 11i or 11.0 or 10.20.</i>				
	HP-UX Operating Environment License-to-Use (use this for 10.20 or 11.0 or 11i Operating Environments) (Recommend 256 MB minimum memory for 11i)	[ ]	B9088AA	AHO	
	HP-UX 11i Enterprise Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9090AA	AHO	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9092AA	AHO	
	HP-UX 11i Technical Computing Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B6822AA	AHO	
8.1	<b>HP-UX Operating Environment, Release Level, Media and Instant Ignition (Optional)</b> <i>Choose one of these four media products if Instant Ignition or CD Kits are needed. Instant Ignition and CD kit should match the license-to-use. Must specify one version and one language. Choose Instant Ignition or a CD kit or both.</i>				
8.2	<b>HP-UX Operating Environment</b>	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 10.20 (Use this option if you want 10.20)	[ ]		APZ	
	HP-UX Version 11.0 (Use this option if you want 11.0)	[ ]		UM4	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY <i>Note: The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8,	[ ]		AU9	

	Description		Product #	Opt #	Price
	ASG or AUD)				
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
8.3	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
8.4	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
8.5	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
9.0	<b>Web QOS</b>				
	NOTE: to receive Web QOS (software) backup media or if the order does not contain any disks (diskless server) then order either the application CD (B6201AA for 11.00 or B5448AA for 10.20) or the HP-UX CD set (B3920EA option APZ for 10.20 or B3920EA option UM4 for 11.00) which contains the application CD				

For Systems Management section, please refer to Figure 2.1 for ServiceControl *essential*.

## HP 9000 Entry-Level Enterprise Server: A400

**IMPORTANT: A-Class server pricing is relatively new and is called “Value Pricing.” This means low list price, low discount. Discounts on these servers, memory, and disks are significantly different and lower than traditional discounts. I/O cards retain the traditional higher discounts. For more information, please see ESP under keyword A-Class.**

Note: for easy configuration and pricing (including printing of various configurations and prices), visit the public HP web site <http://www.hp.com/go/aclass>

	Description		Product #	Opt #	Price
1.0	HP 9000 A400 Enterprise Server (Required -- Max 1) Includes one 440 MHz PA-RISC 8500 CPU with 1.5 MB integrated cache and 128 MB high density SyncDRAM memory module that uses one DIMM slot.	[ X ]	A6109B		
	Enter the following menu selections as sub-items to the server selected in 1.0 above.				
2.0	Memory Modules (Optional -- Max memory is 2 GB) The base A400 server already includes one 128 MB module which occupies 1 DIMM slot. The A400 has a total of 8 DIMM slots. (If HP-UX 11i and any I/O cards are ordered, then a minimum of 256 MB of memory is required. In general, 256 MB of memory is recommended for HP-UX 11i).				
	128 MB high density SyncDRAM memory module (uses 1 DIMM slots)	[ ]	A5572A	OD1	
	512 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A5840A	OD1	
	1024 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A5841A	OD1	
3.0	Internal Disk Drives (Optional -- Max 2)				
	9 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A5573A	OD1	
	18 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A5574A	OD1	
	36 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A6145A	OD1	
4.0	External Media Drives (Optional, min 0, max 4)				
	External DVD-ROM Desktop Drive (can read CDs)	[ ]	C4314A		

	Description		Product #	Opt #	Price
	Note1: Cables and terminators are not included with the above drives. To add a cable, order one of the following: C2908A 1.0M cable, C2957A 2 M cable. In addition, a terminator must be ordered if ordering a cable, C2904A terminator.				
	<b>External DDS-3 Smart Desktop DAT drive</b>	[ ]	C6364A		
	Note2: Cables and terminators are not included with the above drives. To add a cable, order one of the following: C2908A 1.0M cable, C2957A 2 M cable. In addition, a terminator must be ordered if ordering a cable, C2904A terminator.				
5.0	<b>PCI I/O cards (Optional -- Max 2, 1 full and 1 half length if SWC PCI card, A5858A, is not used. The SWC Card takes one half length slot so if it is used then there is only one slot remaining for an I/O card. If the SWC Card is not used, SWC functionality can be provided by J3591A or a console terminal can be used. (F) represents a full length card and (H) represents a half length card.</b>				
5.1	<b>Mass Storage Adapters</b>				
	Single port Fibre Channel 1062Mb/s Interface card (H)	[ ]	A5158A	OD1	
	Single port Ultra-2 SCSI Interface card (F)	[ ]	A5149A	OD1	
	Dual port Ultra-2 SCSI Interface card (F)	[ ]	A5150A	OD1	
	Single port Fast/Wide/Differential SCSI-2 Interface card (H)	[ ]	A4800A	OD1	
	Dual port Fast/Wide/Differential SCSI-2 Interface card (F)	[ ]	A5159A	OD1	
	Dual port 100baseTX/dual port Ultra2 SCSI Combo Interface card (F). Must be used in slot #2. Note: Combo card requires a minimum of 256 Mb of memory.	[ ]	A5838A	OD1	
	RAID ( 4 port Ultra2 SCSI) Interface card (F) Does not support boot.	[ ]	A5856A	OD1	
5.2	<b>Local Area Network (LAN) Adapters</b>				
	Single port 1000baseT Ethernet LAN Adapter (Gigabit Ethernet over copper) (H)	[ ]	A4929A	OD1	
	Single port 1000baseSX Ethernet LAN Adapter (Gigabit Ethernet over fiber) (H)	[ ]	A4926A	OD1	
	Single port 100baseTX LAN Adapter (RJ-45) (H)	[ ]	A5230A	OD1	
	4 Port 100baseTX Ethernet LAN Adapter (H)	[ ]	A5506B	OD1	
	ATM 155 Mb/s LAN Adapter (MMF connector) (H)	[ ]	A5513A	OD1	
	ATM 622 Mb/s LAN Adapter (H)	[ ]	A5483A	OD1	
	FDDI Dual Attach Station LAN Adapter (H) (minimum of 256 MB of memory recommended.)	[ ]	A3739B	OD1	
5.3	<b>Wide Area Network (WAN) Adapters</b>				
	2 Port X.25/Frame Relay Adapter Card (H) (Optional) (Choose min/max one cable option)	[ ]	J3525A*	OD1	
	- RS-232-C cable, 3 M (Max 1)	[ ]		1AT	
	- V.35 cable, 3 M (Max 1)	[ ]		1AU	
	- X.21/V11 cable, 3 M (Max 1)	[ ]		AFR	
	- RS-449 cable, 3 M (Max 1)	[ ]		AFQ	
	- RS-530 cable, 3 M (Max 1)	[ ]		001	
	<i>Note: One of the following software products must be ordered with an X.25/Frame Relay Adapter Card.</i>				
	X.25 High Performance Software (Optional: Max 1)	[ ]	J2793B*	OD1	
	X.25 High Performance Software, Tier 1 LTU	[ ]		AH0	
	Frame Relay Software (Optional: Max 1)	[ ]	J3529A*	OD1	
	Frame Relay Software, Tier 1 LTU	[ ]		AH0	
	SNAplus2 Link Server Software (Optional: Max 1)	[ ]	J2720BA*	OD1	
	( Refer to Configuration Guide for additional SNAplus2 Software Products)				
	SNAplus2 Link Server Software Tier 1 LTU	[ ]		AH0	
5.4	<b>Serial Multiplexer Products</b>				
	8 Port Multiplexer Card (includes 8 RJ45 Connectors) (H)	[ ]	J3592A	OD1	
	64 Port Terminal MUX (must order port modules below) (F) (Max 2)	[ ]	J3593A	OD1	
	64 Port Terminal MUX Manuals	[ ]		OB1	
	16 Port RS232 RJ45 module (Max 4 16 port modules total)	[ ]	J2484A		
	16 Port RS232 DB25 module	[ ]	J2485A		
	16 Port RS442 RJ45 module	[ ]	J2501A		
	RJ45 to HP-RJ45 converter for Multiplexer (16 ports) (Max 4)	[ ]	J2488A		
	RJ45 to HP-DB25 converter for Multiplexer (1 port) (Max 16 per each 16 port module above.)	[ ]	J3830A		
5.5	<b>Secure Web Console PCI Card (H) (Optional – Max 1) If needed, this card must be ordered with the A400 server. CANNOT be ordered standalone. This card is not required if a system console terminal is used. See section 7.0 below.</b>	[ ]	A5858A	OD1	
5.6	<b>Documentation for each I/O card on this server, includes release notes (Optional-Max 5)</b>	[ ]	A5207A		
5.7	<b>A-Class Graphics Solution (Optional -Max 1 per server)</b>				
	2D PCI graphic card set- consists of one graphics card (H) and one 2 port USB card (H) Graphics card	[ ]	A6150B	OD1	



	Description		Product #	Opt #	Price
	restricted to slot 1 only.				
	Requires graphics monitor D8912W (19") or D8915W (21") and keyboard A4983B.				
	Keyboard kit with 3 button mouse (no scroll)	[ ]	A4983B		
	To specify a mouse with scroll capability (substitutes for standard mouse)	[ ]		064	
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#___	
	19" Color Monitor/18" viewable image	[ ]	D8912W		
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#___	
	21" Color Monitor/19" viewable image	[ ]	D8915W		
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#___	
<b>6.0</b>	<b>Configurations for Racking (Optional-- Max 1 per server)</b>				
	Field Rack kit (needed for field integration of each A500 server into 19" wide cabinet at customer location)	[ ]	A5810A		
	Factory integration of A500 server into 19" wide 1.25 M, 1.6 M, or 2 M cabinet (rack kit hardware and integration service). Note: must order 1.25 M (A4900A), 1.6 M (A4901A) or 2 M (A4902A) cabinet in same order section.	[ ]	A5811A		
	Note: See chapter 4 of the Ordering Guide for the other peripherals that can be integrated into the cabinet.				
<b>7.0</b>	<b>System Console -- Select with localization option (Optional -- Max 1) Note: System Console is not required if Secure Web Console PCI Card is ordered. (This card provides web based console capability on any PC with a browser.</b>				
	Console includes keyboard. See Corporate Price List for current localization options				
	Terminal Console for HP 3000/9000 Systems	[ ]	C1099A	#___	
	Note: Can not have both SWC PCI card, A5858A, and console, C1099A, on the same order				
<b>8.0</b>	<b>Power Protection -- Uninterruptible power supply (UPS) (Optional -- No Max)</b>				
	* See Chapter 4 Storage, Accessories, and Other Peripherals HP PowerTrust UPS for ordering instructions.				
	See Rack Cabinet menu for racked UPS products.				
	PowerTrust II-LR 1.4kW/2.0kVA UPS 120V	[ ]	A1353A	*	
	PowerTrust II-LR 1.4kW/2.0kVA UPS 230V	[ ]	A1354A	*	
	PowerTrust II-LR 2.1kW/3.0kVAUPS 230V	[ ]	A1356A	*	
	PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS)	[ ]	A1357A	*	
	PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A	*	
<b>9.0</b>	<b>HP-UX Operating Environment License-to-Use (Required)</b>				
	<i>Choose one of the following Operating Environments. License applies to HP-UX 11i or 11.0.</i>				
	HP-UX Operating Environment License-to-Use (use this for 11.0 or 11i Operating Environments) (Recommend 256 MB minimum memory for 11 256 minimum memory is required if 11i and any I/O cards are ordered.)	[ ]	B9088AA	AHO	
	HP-UX 11i Enterprise Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9090AA	AHO	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9092AA	AHO	
	HP-UX 11i Technical Computing Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B6822AA	AHO	
<b>9.1</b>	<b>HP-UX Operating Environment, Release Level, Media and Instant Ignition (Optional)</b>				
	<i>Choose one of these four media products if Instant Ignition or CD Kits are needed. Instant Ignition and CD kit should match the license-to-use. Must specify one version and one language. Choose Instant Ignition or a CD kit or both.</i>				
<b>9.2</b>	<b>HP-UX Operating Environment</b>	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#___	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11.0 (Use this option if you want 11.0)	[ ]		UM4	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY				
	Note: <i>The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, ASG or AUD)	[ ]		AU9	



	Description		Product #	Opt #	Price
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
9.3	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
9.4	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
9.5	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
10.0	<b>System Integration Specification Plan (Optional)</b> <i>Note: Submittal form required to request System Integration Specification Plan (SISP); see configuration guide.</i>	[ ]	A3142B		
	Basic SISP Configuration - includes custom root volume LVM, kernel parms, racking, and patch loading	[ ]		001	
	Enhanced SISP Configuration - includes option 001 contents plus extended LVM and mirrored disk configuration	[ ]		002	

For Systems Management solutions please refer to Figure 2.1 in Chapter 2 for ServiceControl essential information.

## HP 9000 Entry-Level Enterprise Server: A500

**IMPORTANT: A-Class server pricing is relatively new and is called “Value Pricing.” This means low list price, low discount. Discounts on these servers, memory, and disks are significantly different and lower than traditional discounts. I/O cards retain the traditional higher discounts. For more information, please see ESP under keyword A-Class.**

Note: for easy configuration and pricing (including printing of various configurations and prices), visit the public HP web site <http://www.hp.com/go/aiclass>.

	Description		Product #	Opt #	Price
1.0	<b>HP 9000 A500 Enterprise Server (Required -- Max 1)</b>	[ X ]	A5570B		
2.0	Enter the following menu selections as sub-items to the server selected in 1.0 above. <b>Processor Modules (Required -- min 1, max 2) CPU frequencies cannot be mixed in the same server.</b>				
	440 MHz PA-RISC 8500 CPU with 1.5 MB integrated cache	[ ]	A5571A	OD1	
	550 MHz PA-RISC 8600 CPU with 1.5 MB integrated cache	[ ]	A6148A	OD1	
3.0	<b>Memory Modules (Required -- min 1, max 8 x 128 MB or 4 x 512 or 4 x 1024 or 4 x 2048 MB. Total of 8 DIMM slots available.)</b> (If HP-UX 11i and any I/O cards are ordered, then a minimum of 256 MB of memory is required. In general, 256 MB of memory is recommended for HP-UX 11i).				
	128 MB high density SyncDRAM memory module (uses 1 DIMM slots)	[ ]	A5572A	OD1	
	512 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A5840A	OD1	
	1024 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A5841A	OD1	
	2048 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A6114A	OD1	
4.0	<b>Internal Disk Drives (Optional -- Max 2)</b>				

	Description		Product #	Opt #	Price
	9 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A5573A	OD1	
	18 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A5574A	OD1	
	36 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A6145A	OD1	
5.0	<b>External Media Drives (Optional, min 0, max 4)</b>				
	<b>External DVD-ROM Desktop Drive (can read CDs)</b>	[ ]	C4314A		
	Note1: Cables and terminators are not included with the above drives. To add a cable, order one of the following: C2908A 1.0M cable, C2957A 2 M cable. In addition, a terminator must be ordered if ordering a cable, C2904A terminator.				
	<b>External DDS-3 Smart Desktop DAT drive</b>	[ ]	C6364A		
	Note2: Cables and terminators are not included with the above drives. To add a cable, order one of the following: C2908A 1.0M cable, C2957A 2 M cable. In addition, a terminator must be ordered if ordering a cable, C2904A terminator.				
6.0	<b>PCI I/O cards (Optional -- Max 4, 3 full and 1 half length if SWC PCI card, A5858A, is not used. The SWC Card takes one half length slot so if it is used then there are only three slots remaining for I/O cards. If the SWC Card is not used, SWC functionality can be provided by J3591A or a console terminal can be used. (F) represents a full length card and (H) represents a half length card.</b>				
6.1	<b>Mass Storage Adapters</b>				
	Single port Fibre Channel 1062Mb/s Interface card (H)	[ ]	A5158A	OD1	
	Single port Ultra-2 SCSI Interface card (F)	[ ]	A5149A	OD1	
	Dual port Ultra-2 SCSI Interface card (F)	[ ]	A5150A	OD1	
	Single port Fast/Wide/Differential SCSI-2 Interface card (H)	[ ]	A4800A	OD1	
	Dual port Fast/Wide/Differential SCSI-2 Interface card (F)	[ ]	A5159A	OD1	
	Dual port 100baseTX/dual port Ultra2 SCSI Combo Interface card (F). Must be used in slot #2.	[ ]	A5838A	OD1	
	Note: Combo card requires a minimum of 256 Mb of memory.				
	RAID ( 4 port Ultra2 SCSI) Interface card (F) Does not support boot.	[ ]	A5856A	OD1	
6.2	<b>Local Area Network (LAN) Adapters</b>				
	Single port 1000baseT Ethernet LAN Adapter (Gigabit Ethernet over copper) (H)	[ ]	A4929A	OD1	
	Single port 1000baseSX Ethernet LAN Adapter (Gigabit Ethernet over fiber) (H)	[ ]	A4926A	OD1	
	Single port 100baseTX LAN Adapter (RJ-45) (H)	[ ]	A5230A	OD1	
	4 Port 100baseTX Ethernet LAN Adapter (H)	[ ]	A5506B	OD1	
	ATM 155 Mb/s LAN Adapter (MMF connector) (H)	[ ]	A5513A	OD1	
	ATM 622 Mb/s LAN Adapter (H)	[ ]	A5483A	OD1	
	FDDI Dual Attach Station LAN Adapter (H) (minimum of 256 MB of memory recommended.)	[ ]	A3739B	OD1	
6.3	<b>Wide Area Network (WAN) Adapters</b>				
	2 Port X.25/Frame Relay Adapter Card (H) (Optional) (Choose min/max one cable option)	[ ]	J3525A*	OD1	
	- RS-232-C cable, 3 M (Max 1)	[ ]		1AT	
	- V.35 cable, 3 M (Max 1)	[ ]		1AU	
	- X.21/V11 cable, 3 M (Max 1)	[ ]		AFR	
	- RS-449 cable, 3 M (Max 1)	[ ]		AFQ	
	- RS-530 cable, 3 M (Max 1)	[ ]		001	
	Note: One of the following software products must be ordered with an X.25/Frame Relay Adapter Card.				
	X.25 High Performance Software (Optional: Max 1)	[ ]	J2793B*	OD1	
	X.25 High Performance Software, Tier 1 LTU	[ ]		AHO	
	Frame Relay Software (Optional: Max 1)	[ ]	J3529A*	OD1	
	Frame Relay Software, Tier 1 LTU	[ ]		AHO	
	SNAPplus2 Link Server Software (Optional: Max 1)	[ ]	J2720BA*	OD1	
	( Refer to Configuration Guide for additional SNAPplus2 Software Products)				
	SNAPplus2 Link Server Software Tier 1 LTU	[ ]		AHO	
6.4	<b>Serial Multiplexer Products</b>				
	8 Port Multiplexer Card (includes 8 RJ45 Connectors) (H)	[ ]	J3592A	OD1	
	64 Port Terminal MUX (must order port modules below) (F) (Max 2)	[ ]	J3593A	OD1	
	64 Port Terminal MUX Manuals	[ ]		OB1	
	16 Port RS232 RJ45 module (Max 4 16 port modules total)	[ ]	J2484A		
	16 Port RS232 DB25 module	[ ]	J2485A		
	16 Port RS442 RJ45 module	[ ]	J2501A		
	RJ45 to HP-RJ45 converter for Multiplexer (16 ports) (Max 4)	[ ]	J2488A		
	RJ45 to HP-DB25 converter for Multiplexer (1 port) (Max 16 per each 16 port module above.)	[ ]	J3830A		
6.5	<b>Secure Web Console PCI Card (H) (Optional – Max 1) If needed, this card must be ordered with the</b>	[ ]	A5858A	OD1	

## Chapter 2 A-Class Enterprise Servers



	Description		Product #	Opt #	Price
	A500 server. CANNOT be ordered standalone. This card is not required if a system console terminal is used. See section 8.0 below.				
6.6	Documentation for each I/O card on this server, includes release notes (Optional-Max 5)	[ ]	A5207A		
6.7	<b>A-Class Graphics Solution (Optional -Max 1 per server)</b> 2D PCI graphic card set- consists of one graphics card (H) and one 2 port USB card (H) Graphics card restricted to slot 1 only. USB card can use any slot. Requires graphics monitor D8912W (19") or D8915W (21") and keyboard A4983B. Keyboard kit with 3 button mouse (no scroll) To specify a mouse with scroll capability (substitutes for standard mouse) Localization (Refer to Corporate Price List for current localization options)	[ ]	A6150B	0D1	
	19" Color Monitor/18" viewable image	[ ]	D8912W	#	
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#	
	21" Color Monitor/19" viewable image	[ ]	D8915W	#	
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#	
7.0	<b>Configurations for Racking (Optional- Max 1 per server)</b> Field Rack kit (needed for field integration of each A500 server into 19" wide cabinet at customer location) Factory integration of A500 server into 19" wide 1.25 M, 1.6 M, or 2 M cabinet (rack kit hardware and integration service). Note: must order 1.25 M (A4900A), 1.6 M (A4901A) or 2 M (A4902A) cabinet in same order section. Note: See chapter 4 of the Ordering Guide for the other peripherals that can be integrated into the cabinet.	[ ]	A5810A		
		[ ]	A5811A		
8.0	System Console -- Select with localization option (Optional -- Max 1) Note: System Console is not required if Secure Web Console PCI Card is ordered. (This card provides web based console capability on any PC with a browser. Console includes keyboard. See Corporate Price List for current localization options Terminal Console for HP 3000/9000 Systems Note: Can not have both SWC PCI card, A5858A, and console, C1099A, on the same order	[ ]	C1099A	#	
9.0	Power Protection -- Uninterruptible power supply (UPS) (Optional -- No Max) * See Chapter 4 Storage, Accessories, and Other Peripherals HP PowerTrust UPS for ordering instructions. See Rack Cabinet menu for racked UPS products. PowerTrust II-LR 1.4kW/2.0kVA UPS 120V PowerTrust II-LR 1.4kW/2.0kVA UPS 230V PowerTrust II-LR 2.1kW/3.0kVA UPS 230V PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS) PowerTrust II-LR SNMP/WEB Card	[ ]	A1353A	*	
		[ ]	A1354A	*	
		[ ]	A1356A	*	
		[ ]	A1357A	*	
		[ ]	A1359A	*	
10.0	<b>HP-UX Operating Environment License-to-Use (Required)</b> <i>Choose one of the following Operating Environments. License applies to HP-UX 11i or 11.0.</i> HP-UX Operating Environment License-to-Use (use this for 11.0 or 11i Operating Environments) (Recommend 256 MB minimum memory for 11i. 256 MB of memory is required if 11i and any I/O cards are ordered.) HP-UX 11i Enterprise Operating Environment License-to-Use (recommend 256 MB minimum memory) HP-UX 11i Mission-Critical Operating Environment License-to-Use (recommend 256 MB minimum memory) HP-UX 11i Technical Computing Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9088AA	AHO	
		[ ]	B9090AA	AHO	
		[ ]	B9092AA	AHO	
		[ ]	B6822AA	AHO	
10.1	<b>HP-UX Operating Environment, Release Level, Media and Instant Ignition (Optional)</b> <i>Choose one of these four media products if Instant Ignition or CD Kits are needed. Instant Ignition and CD kit should match the license-to-use. Must specify one version and one language. Choose Instant Ignition or a CD kit or both.</i>				
10.2	<b>HP-UX Operating Environment</b> Localization for System Messages and Documentation - See CPL for current localization options CD Kit Instant Ignition HP-UX Version 11.0 (Use this option if you want 11.0) HP-UX Version 11i	[ ]	B3920EA	#	
		[ ]		AAF	
		[ ]		OD1	
		[ ]		UM4	
		[ ]		UM9	

	Description		Product #	Opt #	Price
	The following configuration can be ordered for HP-UX 11.0 ONLY				
	<i>Note: The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, ASG or AUD)	[ ]		AU9	
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
10.3	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
10.4	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
10.5	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
11.0	<b>System Integration Specification Plan (Optional)</b>		A3142B		
	<i>Note: Submittal form required to request System Integration Specification Plan (SISP); see configuration guide.</i>				
	Basic SISP Configuration - includes custom root volume LVM, kernel parms, racking, and patch loading	[ ]		001	
	Enhanced SISP Configuration - includes option 001 contents plus extended LVM and mirrored disk configuration	[ ]		002	

For Systems Management solutions please refer to Figure 2.1 in Chapter 2 for ServiceControl /essential information.

## Server Upgrades and Component Returns

### A-Class Upgrades

**IMPORTANT:** A-Class server pricing is relatively new and is called “value pricing”. This means low list price and low discount. Discounts on these servers are significantly lower than today’s traditional discounts. For more information, please see ESP using keyword A-Class.

**NOTE:** for easy configuration and pricing (including the printing of the actual configurations) visit the public web site <http://www.hp.com/go/aclass>

### A180 Upgrade

	Description		Product #	Opt #	Price
	<b>Upgrade from model A180 to A180C</b>				
	Upgrade kit (includes 1 MB cache and labels to indicate A180C)	[ ]	A5187A		

**A400 Upgrade to A500**

	Description		Product #	Opt #	Price
1.0	<b>A-Class Expansion Upgrade</b>				
1.1	<b>Model A400 to A500 Expansion Upgrade (Optional -- Max 1)</b>				
	Model A400 to A500 Expansion Upgrade	[ ]	A6112A		
	Note: The above product provides an upgrade from an A400 to an A500 system which increases capability as follows: Maximum Processors increases from 1 to 2				
	Maximum Memory increases from 2GB to 8GB				
	Maximum I/O slots increases from 2 to 4				

**A500 Processor Upgrades**

Note: If you want to upgrade from an A400 to an A500 then you must first order A6112A (see above) to provide the basic A500 capability. Once you have this A500 capability, you can upgrade to a second 440 MHz CPU or to one or two 550 MHz CPUs (see below).

	Description		Product #	Opt #	Price
1.0	<b>A-500 Processor Upgrades</b>				
1.1	440 MHz PA-RISC 8500 CPU with 1.5 MB integrated cache	[ ]	A5571A		
1.2	550 MHz PA-RISC 8600 CPU with 1.5 MB integrated cache	[ ]	A6148A		
1.3	550 MHz PA-RISC 8600 CPU with 1.5 MB integrated cache and 550 MHz capable system board	[ ]	A6692A		
	Note 1: If upgrading from A400 A6109A ("A" version) to a 550 MHz CPU then the first 550 MHz CPU must be A6692A. If upgrading from A400 A6109B ("B" version) to a 550 MHz CPU then the first 550 MHz CPU must be A6148A. The second 550 MHz CPU in all cases must be A6148A.				
	Note 2: If upgrading an A500 A5570A ("A" version) to a 550 MHz CPU then the first 550 MHz CPU must be A6692A and the second CPU must be A6148A. If upgrading from an A500 A5570B ("B" version) then both the first and second 550 MHz CPUs must be A6148A.				
	Note 3: For ordering additional memory modules, disk drives, and I/O cards, please see Chapter 2 under the A400 and A500 section.				
2.0	Return credit for 440 MHz PA-RISC 8500 CPU	[ ]	A5571AN		
	Rebate for return of 440 MHz CPU			001	

## HP-9000 Entry-Level Enterprise Servers: R380 and R390

System	Minimum System	Maximum System	Standard Features	Standard HP-UX Internet Features
R380/1, R380/2, R390/1, R390/2	<ul style="list-style-type: none"> <li>- 128 MB memory</li> <li>- 1 disk</li> <li>- 1 CPU (entry system is R380/1 way with one PA-RISC PA-8000 180 MHZ processor)</li> </ul>	<ul style="list-style-type: none"> <li>- 3 GB memory</li> <li>- 2 disk drives, 4 or 9 GB</li> <li>- 1 removable media drive</li> <li>- 8 I/O slots</li> <li>- (3 slots are EISA only, 1 slot is HSC only, 4 are EISA or HSC)</li> <li>- Highest power system is R390/2 way with two PA-RISC PA-8200 240 MHZ processors with 4 MB cache/processor</li> </ul>	<ul style="list-style-type: none"> <li>- Web QOS (HP Service Control)</li> <li>- HP Secure Web Console (integrated)</li> <li>- HP-UX Special Edition unlimited user license (free)</li> <li>- Rack mountable, factory or field</li> <li>- Factory integrated memory, disk, and I/O</li> <li>- Supported by MC/ServiceGuard</li> <li>- Supported by Ignite/UX</li> <li>- HP-UX 10.20 or 11.0 32 or 64 bit</li> <li>- 802.3 LAN</li> </ul>	<ul style="list-style-type: none"> <li>- Standard Web Services</li> <li>- Netscape Fast Track</li> <li>- Oracle Web Application Server</li> <li>- Netscape Communicator</li> <li>- E-Mail</li> <li>- Mail, MailX, ELM,</li> <li>- Sendmail, MIME, SMTP, ESMTMP</li> <li>- Remote Access Services</li> <li>- Telnet, ftp, anonymous ftp server</li> <li>- Internet Server Functions</li> <li>- Internet server (indtd)</li> <li>- Domain name server</li> <li>- Routing (OSPF, BIND, RIP, EGP, HELLO, gated)</li> <li>- Network Time Protocol</li> <li>- Clinet Configuration Services</li> <li>- Automatic configuration for printers, PCs, workstations, and X terminals (DHCP, Bootp, tftp, rbootp)</li> </ul>

IMPORTANT: R class server ( R380/1, R380/2, R390/1, R390/2) pricing is ENTIRELY new and is called “street pricing”. This means low list price, low discount. Discounts on these servers ,memory, and disks, are significantly lower than today’s traditional discounts. I/O cards retain the traditional discounts. For more information, please see ESP under keyword R-Class.

NOTE: for easy configuration and pricing (including the printing of the actual configurations) visit the public web site <http://eproducts.hp.com>.

	Description		Product #	Opt #	Price
1.0	<b>Server (Required -- Max 1)</b>				
	Model R380/1 way Uniprocessor system (Minimum 128 MB memory required to be selected from section 2.0)	[ ]	A5176A*		
	Model R380/2 way SMP system (Minimum 128 MB memory required to be selected from section 2.0)	[ ]	A5177A*		
	Model R390/1 way Uniprocessor system (Minimum 128 MB memory required to be selected from section 2.0)	[ ]	A5178A*		
	Model R390/2 way SMP system (Minimum 128 MB memory required to be selected from section 2.0)	[ ]	A5179A*		
	<i>Enter the following menu selections as sub-items to the Server selected in section 1 above.</i> To order support, select the desired supplemental System Support Option for each ordered product noted with an asterisk (*).				
2.0	<b>Memory Modules (Required - Max 6)</b>				
	Total 12 SIMM slots on R380 and R390, each module uses 2 SIMM slots				
	128 MB high-density ECC memory module (uses 2 SIMM slots)	[ ]	A5791A	OD1	
	256 MB high-density ECC memory module (uses 2 SIMM slots)	[ ]	A5792A	OD1	
	512 MB high-density ECC memory module (uses 2 SIMM slots)	[ ]	A5793A	OD1	
3.0	<b>Internal SE SCSI-2 Disk Drives (Optional -- Max 2)</b>				
	9 GB SE SCSI-2 disk drive (4 GB drive A3660A has been phased out)	[ ]	A5795A	OD1	
	18 GB SE SCSI-2 disk drive	[ ]	A5789A	OD1	
4.0	<b>Internal Removable Media Drives (Optional - Max 1)</b>				
	DVD-ROM drive SE SCSI-2 (reads CD-ROMs)	[ ]	A5220A	ODS	
	12 GB DDS-3 DAT drive + data compression	[ ]	A3542A	OD1	
	4 GB DDS DAT drive + data compression SE SCSI-2	[ ]	A3183A	ODZ	

	Description		Product #	Opt #	Price
5.0	<b>System Console (Optional -- Max 1)-Select with localization option.</b> Note: Console access is provided by the HP Secure Web Console integrated into each server. System consoles are NOT required but can be ordered, if desired.				
	700/96 console-- Amber screen	[ ]	C1064AX		
	700/96 console-- Green screen	[ ]	C1064GX		
	700/96 console-- White screen	[ ]	C1064WX		
6.0	<b>Additional I/O and Networking Cards (Optional -- Max. 8)</b> R380 and R390 have a total of 8 I/O slots; 3 slots are EISA only, 1 slot is HSC only, and 4 slots are EISA or HSC.				
6.1	<b>HP-HSC (high speed system connect) cards (Optional)</b>				
	HP Remote Management (access port) interface card (Max. 1) ) Ordering this card is recommended if the Secure Web Console enhanced functions are needed and an HSC slot is available. For more information, see the Configuration Guide.	[ ]	A3342A	OD1	
	Fast/Wide/Differential SCSI-2 interface card (max. 5)	[ ]	A4107A	OD1	
	Fibre Channel Tachlite adapter with switched fabric support (Max 3)	[ ]	A6684A		
	Fibre Channel 1063Mbps interface card for information storage (Max 3)	[ ]	A3591B	OD1	
	Fibre Channel 1063 Mbps for information storage license and media	[ ]	J3630BA*	OD1	
	Enhanced graphics interface card (Visualize-EG card) (Max. 1)	[ ]	A4450A	OD1	
	Enhanced graphics display memory card (8-plane double buffering) (Available only with Visualize-EG card) (Max. 1)	[ ]	A4452A	OD1	
	100BaseT One Port LAN Adapter Card (Max. 4) (factory install)	[ ]	J3515A*	OD1	
	100BaseT Two Port LAN Adapter Card (Max. 4) (factory install)	[ ]	J3516A*	OD1	
	100BaseT LAN Adapter Manuals	[ ]	J3622AA*		
	1000BaseSX (Gigabit Ethernet) (Actual performance will vary depending on configuration, application and user load.)	[ ]	A4925A	OD1	
	FDDI Adapter Card (Max. 3)	[ ]	A3723A*	OD1	
	FDDI Manuals	[ ]	J3703AA		
	ATM 622 Mbps Adapter Card (Max. 2)	[ ]	J3573A*		
	OC12 Multi-Mode Fiber Interface	[ ]		001	
	Factory Integration	[ ]		OD1	
	ATM 155 Mbps Adapter Card (Max. 4 )	[ ]	J2499A*		
	OC3 Multi-Mode Fiber Interface	[ ]		001	
	UTP5 Interface	[ ]		002	
	Factory Integration	[ ]		OD1	
	ATM HP-HSC Adapter Software	[ ]	J2806CA*		
	Tier 1 R-Class License	[ ]		AH0	
	Instant Ignition	[ ]		OD1	
	HyperFabric Card	[ ]	A4921A	OD1	
6.2	<b>EISA MUX Products (Optional)</b>				
	<b>Note: EISA cards NOT orderable for use with HP-UX 11.0 64-bit version</b>				
	8 Port MUX Card (includes 8 RJ45 Connectors) (Max. 1)	[ ]	J2482A	OD1	
	Cabling, Diagnostic, and Troubleshooting Manual (Max. 1)	[ ]		OB1	
	64 Port MUX Card (must order port modules below; Max 6)	[ ]	J2483A	OD1	
	Cabling, Diagnostic, and Troubleshooting Manual	[ ]		OB1	
	16 port RS-232 RJ45 Port Module	[ ]	J2484A		
	16 port RS-232 DB25 Port Module	[ ]	J2485A		
	16 port RS-422 RJ45 Port Module	[ ]	J2501A		
	RJ45 to HP-RJ45 Converter for MUX	[ ]	J2488A		
	RJ45 to HP-DB25 Converter for MUX	[ ]	J3830A		
6.3	<b>EISA Cards (Optional)</b>				
	<b>Note: EISA cards NOT orderable for use with HP-UX 11.0 64-bit version</b>				
	Fast Single Ended SCSI-2 interface card (Max. 6)	[ ]	A2679A	OD1	
	802.5 Token Ring interface card (Max. 4)	[ ]	J2165B*	OD1	
	Dual port X.25 card (Max. 6)	[ ]	J2815A*	OD1	
	RS-232 interface cable	[ ]		1AT	
	X.21/V11 interface cable	[ ]		AFR	
	High Speed X.25 card (Max. 4)	[ ]	J2794A*	OD1	
	RS-232 interface cable	[ ]		1AT	



	Description		Product #	Opt #	Price
	V.35 interface cable	[ ]		1AU	
	RS-449 interface cable	[ ]		AFQ	
	X.25/9000 software instant ignition	[ ]	J2793B*	OD1	
	X.25/9000 software system license for HP9000 tier 1	[ ]		AH0	
	X.25/9000 software standard performance	[ ]		100	
	X.25/9000 software high performance (Valid with J2794A card only)	[ ]		101	
	8-port HP ACC for HP9000 EISA Systems	[ ]	Z7400A		
	HP ACC and X.25/9000 Software Bundle License (Includes HP X.25/9000, HP ACC X.25/9000 Link and HP ACC base software )				
	Processor License Option (Must order one)	[ ]	Z7476AA		
	Tier 1 – K100, K200, K210, K220, K370			AH0	
	Tier 2 – K400, K410, K420, K570			AE5	
	Tier 3 – T500, T520, T600, 890			AEP	
	SNAplus2 Media and License To Use	[ ]	J2720BA*	AH0	
	Factory Integration	[ ]		OD1	
6.4	Documentation for each I/O card on this server, includes release notes (Optional-Max 5)				
7.0	<b>Rack Installation (Optional)</b>				
	Factory integration of R-Class server into 19" wide 1.96M, 1.6M or 1.25M rack (rack kit hardware and integration service) (server does not slide out for access)	[ ]	A5215A		
	Must order 1.96M (A4902A), 1.6M (A4901A) or 1.25M (A4900A) rack in same order section with this integration product				
	Factory integration of R-Class server into 19" wide 1.96M, 1.6M or 1.25M rack (rack kit hardware and integration service) (server slides out for access)	[ ]	A5807A		
	Must order 1.96M (A4902A), 1.6M (A4901A) or 1.25M (A4900A) rack in same order section with this integration product				
	R-Class Field Rackmount kit (hardware only) (server does not slide out for access) (Required for field integration of each R-Class server into 19" wide cabinet at the customer location)	[ ]	A5214A		
	R-Class Field Rackmount kit (hardware only) (server slides out for access) See note 1 (Required for field integration of each R-Class server into 19" wide cabinet at the customer location)	[ ]	A6088A		
	Bolt on Anti-Tip Foot (for HP legacy cabinets C2785A, C2786A, and C2787A and new HP cabinets A4900A, A4901A, and A4902A) Not needed on new HP cabinets shipped after June, 1999.)	[ ]	A5540A		
	HP Ballast Weight Kit, 30 lbs (More than one may be required. See Configuration Guide, Ch. 4)	[ ]	C2790A		
	Note: See Chapter 4 of the Order Guide for the other peripherals that can be integrated into the cabinet				
8.0	<b>Power Protection -- Uninterruptible power supply (UPS) (Optional -- No Max)</b>				
	*See Chapter 4 Storage, Accessories, and Other Peripherals HP PowerTrust UPS for ordering instructions.				
	See Rack Cabinet menu for racked UPS products.				
	PowerTrust II-LR 1.4kW/2.0kVA 120V	[ ]	A1353A	*	
	PowerTrust II-LR 1.4kW/2.0kVA UPS 230V	[ ]	A1354A	*	
	PowerTrust II-LR 2.1kW/3.0kVA UPS 230V	[ ]	A1356A	*	
	PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS)	[ ]	A1357A	*	
	PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A	*	
	<b>HP-UX Operating System</b>				
9.0	<b>HP-UX Operating Environment License-to-Use (Required)</b>				
	<i>Choose one of the following Operating Environments. License applies to HP-UX 11i or 11.0 or 10.20.</i>				
	HP-UX Operating Environment License-to-Use (use this for 10.2 or 11.0 or 11i Operating Environments) (Recommend 256 MB minimum memory for 11i)	[ ]	B9088AA	AH0	
	HP-UX 11i Enterprise Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9090AA	AH0	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9092AA	AH0	
	HP-UX 11i Technical Computing Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B6822AA	AH0	
9.1	<b>HP-UX Operating Environment, Release Level, Media and Instant Ignition (Optional)</b>				
	<i>Choose one of these four media products if Instant Ignition or CD Kits are needed. Instant Ignition and CD kit should match the license-to-use. Must specify one version and one language. Choose Instant Ignition or a CD kit or both.</i>				





	Description		Product #	Opt #	Price
9.2	<b>HP-UX Operating Environment</b>	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 10.20 (Use this option if you want 10.20)	[ ]		APZ	
	HP-UX Version 11.0 (Use this option if you want 11.0)	[ ]		UM4	
	64-bit version (if not selected, then 32 bit version of 11.0 will be provided)	[ ]		ASG	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY				
	<i>Note: The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, ASG or AUD)	[ ]		AU9	
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
9.3	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
9.4	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
9.5	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
10.0	<b>Web QOS</b>				
	<b>NOTE:</b> to receive Web QOS (software) backup media or if the order does not contain any disks (diskless server) then order either the application CD (B6201AA for 11.00 or B5448AA for 10.20) or the HP-UX CD set (B3920EA option APZ for 10.20 or B3920EA option UM4 for 11.00) which contains the application CD				

For Systems Management section, please refer to Figure 2.1 for ServiceControl /essential.



## R-Class Upgrades

**IMPORTANT:** R -Class server pricing is ENTIRELY new and is called “street pricing”. This means low list price, low discount. Discounts on these servers only, not memory, disk, and I/O, are significantly lower than today’s traditional discounts. Memory, disk, and I/O retain the traditional discounts. For more information, please see ESP under keyword R-Class.

	Description		Product #	Opt #	Price
1.0	<b>R-Class upgrades</b>				
	Upgrade: R380/2 way CPU board	[ ]	A5195A		
	Upgrade: R390/1 way CPU board	[ ]	A5196A		
	Upgrade: R390/2 way CPU board	[ ]	A5197A		
2.0	<b>R-Class upgrade return credit</b>		A5219AN		
	Credit for returning an R380/1 way CPU board	[ ]		381	
	Credit for returning an R380/2 way CPU board	[ ]		382	
	Credit for returning an R390/1 way CPU board	[ ]		391	

## HP 9000 Entry-Level Enterprise Servers: D320, D330, and D390

### Features

System	Minimum System	Maximum SPU Capacities	Standard Features	Standard HP-UX Internet Features	
<b>D320</b> <b>132 MHz</b>  <b>D330</b> <b>160 MHz</b>	<ul style="list-style-type: none"> <li>1 CPU (PA7300LC processor with 64/64 KB cache, D330 includes additional 1024 KB L2 cache)</li> <li>32 MB ECC RAM</li> <li>8 I/O slots                             <ul style="list-style-type: none"> <li>3 slots HP-HSC or EISA capable</li> <li>4 EISA only</li> <li>1 HP-HSC only</li> </ul> </li> <li>3 removable media bays — one dedicated floppy slot, 2 others for CD-ROM (std), DDS, or QIC</li> <li>5 hot-plug disk drive bays (low-profile) FWD</li> </ul>	<ul style="list-style-type: none"> <li>1 CPU (PA7300LC processor with 64/64 KB cache, plus 1024 KB additional 2nd level cache)</li> <li>2 GB EDO RAM</li> <li>8 I/O cards, with any combination of EISA and HP-HSC cards up to maximums of:                             <ul style="list-style-type: none"> <li>7 EISA cards or</li> <li>4 HP-HSC cards</li> </ul> </li> <li>3 removable media drives</li> <li>5 hot-plug disk drives (low-profile)</li> </ul>	<ul style="list-style-type: none"> <li>Fast/wide/differential SCSI-2 HSC channel with external connector</li> <li>Single-ended SCSI-2 with external connector</li> <li>650MB 12X CD-ROM</li> <li>HP-UX operating system with 2-user license</li> <li>802.3 EtherTwist LAN</li> <li>PS/2 keyboard and mouse ports</li> <li>Two high-speed RS-232C serial ports, console, and optional UPS</li> <li>Parallel Centronics port</li> <li>Internal IDE connector for floppy disk drive</li> <li>Security Door Lock</li> <li>Factory integration of memory, disk drives, and I/O cards</li> <li>Three-year on-site next-day warranty</li> <li>Owner's Guide and General Usage documentation set</li> <li>Rackmountable into 19-inch, 1.1, 1.6, or 2.0 meter cabinets and the 23-inch 1.6 meter cabinet supporting up to four D-Class servers</li> <li>Remote Management Port</li> </ul>	<b>Standard Web Services</b> <ul style="list-style-type: none"> <li>Netscape Fast Track</li> <li>Oracle Web Application Server</li> <li>Netscape Communicator</li> </ul> <b>E-Mail</b> <ul style="list-style-type: none"> <li>Mail, MailX, ELM</li> <li>Sendmail rev8.8, MIME, SMTP, ESMTP</li> </ul> <b>Remote Access Services</b> <ul style="list-style-type: none"> <li>Telnet, ftp, anonymous ftp server</li> </ul> <b>Internet Server Functions</b> <ul style="list-style-type: none"> <li>Internet server (inetd)</li> <li>Domain name server</li> <li>Routing (OSPF, BIND, RIP, EGP, HELLO, gateD)</li> <li>Network Time Protocol</li> </ul> <b>Client Configuration Services</b> <ul style="list-style-type: none"> <li>Automatic configuration for printers, PCs, workstations, and X terminals (DHCP, Bootp, tftp, rbootp)</li> </ul>	
<b>D390 SMP</b> <b>240 MHz</b> <b>64-Bit</b>	<ul style="list-style-type: none"> <li>1 CPU (180 MHz PA8000 64 bit processor with 1024x1024KB instruction/data cache)</li> <li><b>OR</b></li> <li>1 CPU (240 MHz PA8200 64 bit processor with 2048x2048 KB instruction/data cache)</li> <li>64MB ECC RAM for D390, D390 1-way</li> <li>128MB ECC RAM for D390 2-way</li> <li>8 I/O slots                             <ul style="list-style-type: none"> <li>4 slots HP-HSC or EISA capable</li> <li>3 EISA only</li> <li>1 HP-HSC only</li> </ul> </li> <li>3 removable media bays — one dedicated floppy slot, two for CD-ROM (standard), DDS, or QIC</li> <li>5 hot-plug disk drive bays (low-profile) FWD</li> </ul>	<ul style="list-style-type: none"> <li>2 CPU (180 MHz PA8000 64 bit processors with 1024x1024KB instruction/data cache)</li> <li><b>OR</b></li> <li>2 CPU (240 MHz PA8200 64 bit processor with 2048x2048 KB instruction/data cache)</li> <li>3 GB ECC RAM, D390</li> <li>8 I/O cards, with any combination of EISA and HP-HSC cards up to maximums of:                             <ul style="list-style-type: none"> <li>7 EISA cards or</li> <li>5 HP-HSC cards</li> </ul> </li> <li>3 removable media drives</li> <li>5 hot-plug disk drives (low-profile)</li> </ul>			

## HP 9000 Entry-Level Enterprise Servers: D320, D330, and D390

	Description		Product #	Opt #	Price
◆	Select the desired Supplemental System Support option for each ordered product noted with an asterisk (*).				
1.0	<b>Server (Required – Max 1)</b>				
	Model D320 Uniprocessor Server (Requires HP-UX 10.20 or higher; must select base memory; Requires a minimum of 32 MB memory)	[ ]	A3576A*		
	Model D330 Uniprocessor Server (Requires HP-UX 10.20 or higher; must select base memory; Requires a minimum of 32 MB memory)	[ ]	A3578A*		
	Model D390/1-way Enterprise Server (Requires HP-UX 10.20 or higher; must select base memory; Requires a minimum of 64 MB memory)	[ ]	A4903A*		
	Model D390/2-way Enterprise Server (Requires HP-UX 10.20 or higher; must select base memory; Requires a minimum of 128 MB memory)	[ ]	A4904A*		
2.0	<b>Memory Modules</b>				
	(Required for D370, D380, D390: Min 1, Max 6) (Required for D320, D330: Min 1, Max 4) Max 8 total SIMM slots (4 memory modules) on D310, D320, D330 Max 12 total SIMM slots (6 memory modules) on D350, D360, D370, D380, D390 (Note: "Total SIMM slots" also refers to bundled base memory where appropriate)				
	128 MB high-density ECC memory module (uses 2 SIMM slots)	[ ]	A3408A	0D1	
	256 MB high-density ECC memory module (uses 2 SIMM slots; Not supported on D310)	[ ]	A3564A	0D1	
	512 MB high-density ECC memory module (uses 2 SIMM slots; Not supported on D310, D350, D360)	[ ]	A3717A	0D1	
2.1	<b>Secondary Cache for D320 and D330 (Optional for D320, Required for D330)</b>				
	1M unified second level cache for D320 and D330	[ ]	A3586A	0D1	
3.0	<b>Internal Disk Drives</b>				
3.1	<b>Internal FWD SCSI-2 Disk Drives (Optional – Max 5)</b>				
	Note: Up to ten more external disk drives can be added onto internal FWD SCSI-2 channel				
	9 GB FWD SCSI-2 hot-pluggable disk drive module (4 GB drive A3643A has been phased out)	[ ]	A4910A	0D1	
	18 GB FWD SCSI-2 hot-pluggable disk drive module	[ ]	A5528A	0D1	
4.0	<b>Internal Removable Media Drives</b>				
4.1	<b>CD-ROM (Required – Max 1, for HP-UX preload and installation)</b>				
	DVD-ROM drive SE SCSI-2 (reads CDROMs)	[ X ]	A5220A	0DS	
4.2	<b>Floppy Disk Drive (Optional – Max 1)</b>				
	1.44 MB 3.5" IDE floppy disk drive	[ ]	A3307A	0D1	
4.3	<b>Backup Devices (Optional – Max 1; Max 2 only if CD-ROM selection is omitted)</b>				
	12 GB DDS-3 DAT drive + data compression	[ ]	A3542A	0D1	
	4 GB DDS DAT drive + data compression SE SCSI-2	[ ]	A3183A	0DZ	
5.0	<b>System Console (Optional – Max 1) Select with localization option.</b>				
	700/96 console – Amber screen	[ ]	C1064AX		
	700/96 console – Green screen	[ ]	C1064GX		
	700/96 console – White screen	[ ]	C1064WX		
5.1	<b>Graphics Monitors</b>				
	19" Color Monitor/ 18" viewable image Pure Flat Trinitron screen. (1600x1200 resolution) Includes one Dsub video cable. (D8910W not available in Southern Hemisphere—replace with D2847W)	[ ]	D8910W		
	North American Localization (for all except Europe)	[ ]		ABA	
	European Localization	[ ]		ABB	
	21" Color Monitor - 19.8" viewable image Pure Flat Trinitron screen. Up to 1600 X 1200 resolution. Includes one Dsub video cable.	[ ]	D2847W		
	North American Localization (for all except Southern Hemisphere and Europe)	[ ]		ABA	
	Southern Hemisphere Localization	[ ]		ABG	
	European Localization	[ ]		ABB	
5.2	<b>Graphics Keyboard Kit (Optional for systems with graphics cards)</b>				
	(Includes keyboard, mouse, and documentation)				
	PC Style Keyboard (Mini-Din connect)	[ ]	A4030G		
	Delete documentation set from keyboard kit (Required)	[ ]		0B0	

	Description		Product #	Opt #	Price
5.3	HP Secure Web Console Note: The Secure Web Console can be used instead of the 700/96 console. The Secure Web Console Provides local or remote console functionality over a LAN or any PC with web browser functionality. Localization option automatically determined by ship-to address.	[ ]	J3591A		
6.0	<b>Additional I/O and Networking Cards (Optional – Max 6)</b> Note: D3XX family has a total of 8 I/O slots; one HSC slot holds the standard Access Port card and another HSC slot holds the standard FWD SCSI-2 card, leaving 6 slots available for Optional I/O and networking cards. D310, D320, D330: 4 slots are EISA only, 2 slots are EISA or HSC D350, D360, D370, D380, D390: 3 slots are EISA only, 3 slots are EISA or HSC				
6.1	<b>HP-HSC (high-speed system connect) Cards (Optional)</b> Fast/Wide/Differential SCSI-2 interface card (D310, D320, D330: Max. 2; D350, D360, D370, D380, D390: Max 3) Fibre Channel Tachlite adapter with switched fabric support Max 2: D320, D330 Max 3: D390 Fibre Channel 1063Mbps interface card for information storage (Max 3; supported on D370, D380, D390) Fibre Channel 1063Mbps for information storage license and media (use beginning 12/97 in place of J1602AA, combines license and media) Note: One FWD SCSI-2 is included with D3XX Models Enhanced Graphics Interface (VISUALIZE -EG) card (Max 1; supported on D320, D330, D370, D380, D390) (used only in slot 0) Enhanced Graphics Display Memory Card (8-pane double buffering) (Available as an option only with VISUALIZE-EG card) (Max 1, does not use a slot) 100Base-T One Port LAN Adapter Card (Max 4) (not supported on D200) 100Base-T Two Port LAN Adapter Card (Max 4) (not supported on D200) 100Base-T LAN Adapter Manuals 1000BaseSX (Gigabit Ethernet) 1000BaseSX (Gigabit Ethernet) (Supported on D250, D260, D270, D280, D350, D360, D370, D380, D390 only. Actual performance will vary depending on configuration, application, and user load.) FDDI LAN Adapter Card (Max 3) (not supported on D200) FDDI LAN Adapter Manuals ATM 622 Mbps Adapter Card (Max. 4) OC12 Multi-Mode Fiber Interface Factory Integration ATM 155 Mbps Adapter Card (Max. 4) OC3 Multi-Mode Fiber Interface UTP5 Interface Factory Integration ATM HP-HSC Adapter Software Tier 1 D-Class License Instant Ignition Hyperfabric Adapter Card (Max. 2)	[ ]	A4107A	OD1	
		[ ]	A6684A		
		[ ]	A3591B	OD1	
		[ ]	J3630BA*	OD1	
		[ ]	A4450A	OD1	
		[ ]	A4452A	OD1	
		[ ]	J3515A	OD1	
		[ ]	J3516A	OD1	
		[ ]	J3622AA		
		[ ]	A4925A	OD1	
		[ ]	A3723A	OD1	
		[ ]	J3703AA		
		[ ]	J3573A		
		[ ]		001	
		[ ]		OD1	
		[ ]	J2499A		
		[ ]		001	
		[ ]		002	
		[ ]		OD1	
		[ ]	J2806CA		
		[ ]		AHO	
		[ ]		OD1	
		[ ]	A4921A	OD1	
6.2	<b>EISA MUX Products</b> 8 Port MUX Card (includes 8 RJ45 Connectors) (Max 1) Cabling, Diagnostic, and Troubleshooting Manual (Max 1) 64 Port MUX Card (must order port modules below; Max 6) Cabling, Diagnostic, and Troubleshooting Manual 16 port RS-232 RJ45 Port Module 16 port RS-232 DB25 Port Module 16 port RS-422 RJ45 Port Module EISA MUX SW driver with Media RJ45 to HP-RJ45 Converter for MUX RJ45 to HP-DB25 Converter for MUX	[ ]	J2482A	OD1	
		[ ]		OB1	
		[ ]	J2483A	OD1	
		[ ]		OB1	
		[ ]	J2484A		
		[ ]	J2485A		
		[ ]	J2501A		
		[ ]	J2467C	OD1	
		[ ]	J2488A		
		[ ]	J3830A		
6.3	<b>EISA Cards (Optional) (Not orderable with 64-bit configurations)</b> 802.5 Token Ring interface card (Max 4) Backup Media/Manuals for Token Ring/9000 D-Class Server FDDI LAN adapter media	[ ]	J2165B	OD1	
		[ ]	J2638BA		
		[ ]	J2648A	OD1	

	Description		Product #	Opt #	Price
	FDDI LAN adapter manuals	[ ]	J2649AA		
	Dual port X.25 card (Max 6)	[ ]	J2815A*	OD1	
	RS-232 interface cable	[ ]		1AT	
	X.25/V11 interface cable	[ ]		AFR	
	High-Speed X.25 card (Max 4)	[ ]	J2794A*	OD1	
	RS-232 interface card	[ ]		1AT	
	V.35 interface cable	[ ]		1AU	
	RS-449 interface cable	[ ]		AFQ	
	X.25/9000 software (factory install)	[ ]	J2793B*	OD1	
	X.25/9000 software system license for HP 9000 (tier 1)	[ ]		AHO	
	X.25/9000 software standard performance	[ ]		100	
	X.25/9000 software high performance (Valid with J2794A card only)	[ ]		101	
	8-port HP ACC for HP9000 EISA Systems	[ ]	Z7400A		
	HP ACC Software (Must order one software license per system)				
	HP ACC and X.25/9000 Software Bundle License (Includes HP X.25/9000, HP ACC X.25/9000 Link and HP ACC base software )				
	Processor License Option (Must order one)	[ ]	Z7476AA		
	Tier 1 – K100, K200, K210, K220, K370	[ ]		AHO	
	Tier 2 – K400, K410, K420, K570	[ ]		AE5	
	Tier 3 – T500, T520, T600, 890	[ ]		AEP	
	SNAPLUS2 Media and License To Use	[ ]	J2720BA*	AHO	
	Factory Integration	[ ]		OD1	
6.4	<b>I/O and Network Documentation and Release Notes</b>				
	Documentation and release notes for each I/O card in the server (Optional – Max 5)		A5207A		
7.0	<b>Rack Installation (Optional)</b>				
	<b>Must order with 2 meter (A4902A), 1.6 meter (A4901A or A3764A) or 1.25 meter (A4900A) Factory Integrated Cabinet in same order section.</b>				
	Factory integration of server into standard 19" wide 2m (A4902A), 1.6m (A4901A), or 1.25m (A4900A) cabinet (Max 1) Quartz Gray color to match Rack System/E cabinets (includes all necessary cabinet rackmount kit hardware)	[ ]	A5174B		
	Factory integration of server into D-Class 23" wide 1.6 meter cabinet (A3764A) (Max 4) (includes all necessary mounting kit hardware for factory integration)	[ ]	A4834A		
	Note: the mounting kit (A4838A) is not needed for factory integration of D-Class servers. It is only needed for field integration of D-Class servers into the D-Class 23" wide cabinet.				
8.0	<b>Power Protection – Uninterruptible Power Supply (UPS) (Optional – No Max)</b>				
	* See Chapter 4 Storage, Accessories, and Other Peripherals HP PowerTrust UPS for ordering instructions.				
	<b>See Rack Cabinet menu for racked UPS products.</b>				
	PowerTrust II-LR 1.4kW/2.0kVA UPS 120V	[ ]	A1353A	*	
	PowerTrust II-LR 1.4kW/2.0kVA UPS 230V	[ ]	A1354A	*	
	PowerTrust II-LR 2.1kW/3.0kVA UPS 230V	[ ]	A1356A	*	
	PowerTrust II-LR Battery Pack (note: each UPS comes with one battery pack. Max 5 battery packs)	[ ]	A1357A	*	
	PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A	*	
	PowerTrust II-MR 4.0Kw/4.5kVA 230V UPS	[ ]	A6583A	*	
	Includes: 1 battery pack, rack kit, cable and manuals. Must order one PDP as an option				
	PowerTrust II-MR 4.0kW Battery Pack (additional 3, max of 4)	[ ]	A6586A		
	SNMP Card Communication Kit	[ ]	A6593A		
	Contact Closure Card Kit w/cable (direct connection w/native NT or remote status connection)	[ ]	A6597A		
	<b>HP-UX Operating System</b>				
9.0	<b>HP-UX Operating Environment License-to-Use (Required)</b>				
	<b>Choose one of the following Operating Environments. License applies to HP-UX 11i or 11.0 or 10.20.</b>				
	HP-UX Operating Environment License-to-Use (use this for 10.2 or 11.0 or 11i Operating Environments) (Recommend 256 MB minimum memory for 11i)	[ ]	B9088AA	AHO	
	HP-UX 11i Enterprise Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9090AA	AHO	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use (recommend 256 MB minimum	[ ]	B9092AA	AHO	

	Description		Product #	Opt #	Price
	memory)				
	HP-UX 11i Technical Computing Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B6822AA	AH0	
9.1	HP-UX Operating Environment, Release Level, Media and Instant Ignition (Optional) <i>Choose one of these four media products if Instant Ignition or CD Kits are needed. Instant Ignition and CD kit should match the license-to-use. Must specify one version and one language. Choose Instant Ignition or a CD kit or both.</i>				
9.2	<b>HP-UX Operating Environment</b>	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 10.20 (Use this option if you want 10.20)	[ ]		APZ	
	HP-UX Version 11.0 (Use this option if you want 11.0)	[ ]		UM4	
	64-bit version (if not selected, then 32 bit version of 11.0 will be provided)	[ ]		ASG	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY				
	<i>Note: The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, ASG or AUD)	[ ]		AU9	
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
9.3	HP-UX Enterprise Operating Environment	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
9.4	HP-UX Mission-Critical Operating Environment	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
9.5	HP-UX Technical Computing Operating Environment	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
10.0	<b>Supplemental System Support (Optional)</b>				
	See Support Chapter 12 for Supplemental System Support options				
11.0	<b>System Integration Specification Plan (Optional)</b>				
	Custom Root Volume LVM, Kernel parameters, and Racking. Patch loading	[ ]	A3142B	001	
	Extended LVM and Mirrored Disk Configuration, plus option 001 contents	[ ]		002	

For Systems Management section, please refer to Figure 2.1 for ServiceControl /ssential.

## D-Class Upgrades

	Description	Product #	Opt #	Price
◆	Select the desired Supplemental Support Option for each ordered product noted with an asterisk (*).			
1.0	<b>D-Class Processor Upgrades (Note: Section 1 provides performance upgrades only.</b>			
	For expanding a D2XX system into a D3XX system, order the appropriate performance upgrade from Section 1 in combination with the D2XX to D3XX expansion upgrade from Section 2.)			
	<b>Processor Upgrade to Model D230 or to Model D330 (Optional -- Max 1)</b>			
	<b>Note: Upgrades to Model D230 or D330 require HP-UX 10.20 or higher</b>			
•	D2XX system board (only required for system upgrades to DX30's with serial prefix numbers lower than 3638xxxxxx)	A3585A*	001	
•	D3XX system board (only required for system upgrades to DX30's with serial prefix numbers lower than 3638xxxxxx)	A3585A*	002	
•	Upgrade from Model D200 to DX30	A3585A*	850	
•	Upgrade from Model DX10 to DX30	A3585A*	851	
•	Upgrade from Model DX20 to DX30	A3585A*	855	
	(Note: To upgrade from D2X0 to D330, order this upgrade in combination with the expansion upgrade in Section 2.)			
	(Note: If the current D-Class system has the Artist Color 2D Graphics Interface Card, A4077A, that card is not compatible with the upgraded system and will need to be replaced by the Enhanced Graphics Interface Card, A4450A; both cards may only be used in slot 0)			
	<b>Processor Upgrade to Model D280 1-way or to Model D380 1-way (Optional -- Max 1)</b>			
	<b>Note: Upgrades to Model D280/1 or D380/1 require HP-UX 10.20 or higher</b>			
•	Upgrade from Model D200 to DX80 1-way	A3720A*	850	
•	Upgrade from Model DX10 to DX80 1-way	A3720A*	851	
•	Upgrade from Model DX20 to DX80 1-way	A3720A*	855	
•	Upgrade from Model DX30 to DX80 1-way	A3720A*	856	
•	Upgrade from Model DX50 1-way to DX80 1-way	A3720A*	852	
•	Upgrade from Model DX70 1-way to DX80 1-way	A3720A*	857	
	(Note: To upgrade from D2X0 to D380/1, order this upgrade in combination with the expansion upgrade in Section 2.)			
	(Note: If the current D-Class system has the Artist Color 2D Graphics Interface Card, A4077A, that card is not compatible with the upgraded system and will need to be replaced by the Enhanced Graphics Interface Card, A4450A; both cards may be used in slot 0 only)			
	<b>Processor Upgrade to Model D280 2-way or to Model D380 2-way (Optional -- Max 1)</b>			
	<b>Note: Upgrades to Model D280/2 or D380/2 require HP-UX 10.20 or higher</b>			
•	Upgrade from Model D200 to DX80 2-way	A3721A*	850	
•	Upgrade from Model DX10 to DX80 2-way	A3721A*	851	
•	Upgrade from Model DX20 to DX80 2-way	A3721A*	855	
•	Upgrade from Model DX30 to DX80 2-way	A3721A*	856	
•	Upgrade from Model DX50 1-way to DX80 2-way	A3721A*	852	
•	Upgrade from Model DX50 2-way to DX80 2-way	A3721A*	853	
•	Upgrade from Model DX60 2-way to DX80 2-way	A3721A*	854	
•	Upgrade from Model DX70 1-way to DX80 2-way	A3721A*	857	
•	Upgrade from Model DX70 2-way to DX80 2-way	A3721A*	858	
•	Upgrade from Model DX80 1-way to DX80 2-way	A3721A*	859	
	(Note: To upgrade from D2X0 to D380/2, order this upgrade in combination with the expansion upgrade in Section 2.)			
	(Note: If the current D-Class system has the Artist Color 2D Graphics Interface Card, A4077A, that card is not compatible with the upgraded system and will need to be replaced by the Enhanced Graphics Interface Card, A4450A; both cards may be used in slot 0 only)			
	<b>Processor Upgrade to Model D390 1-way (Optional -- Max 1)</b>			
	Note: This processor upgrade is only allowed to D3xx servers. If you currently have a D2xx server, then need to order D2xx to D3xx Chassis Expansion Upgrade (A3383A) from section 2			



	Description		Product #	Opt #	Price
	Note: Upgrades to D390/1-way require HP-UX 10.20 or higher				
	• Upgrade from Model D300 to D390 1-way		A4907A*	850	
	• Upgrade from Model D310 to D390 1-way		A4907A*	851	
	• Upgrade from Model D320 to D390 1-way		A4907A*	855	
	• Upgrade from Model D330 to D390 1-way		A4907A*	856	
	• Upgrade from Model D350 1-way to D390 1-way		A4907A*	852	
	• Upgrade from Model D370 1-way to D390 1-way		A4907A*	857	
	• Upgrade from Model D380 1-way to D390 1-way		A4907A*	859	
	(Note: If the current D-Class system has the Artist Color 2D Graphics Interface Card, A4077A, that card is not compatible with the upgraded system and will need to be replaced by the Enhanced Graphics Interface Card, A4450A; both cards may be used in slot 0 only)				
	<b>Processor upgrade to Model D390 2-way (Optional -- Max 1)</b>				
	Note: This processor upgrade is only allowed to D3xx servers. If you currently have a D2xx server, then need to order D2xx to D3xx Chassis Expansion Upgrade (A3383A) from section 2				
	Note: Upgrades to Model D390/2 require HP-UX 10.20 or higher				
	• Upgrade from Model D300 to D390 2-way		A4908A*	850	
	• Upgrade from Model D310 to D390 2-way		A4908A*	851	
	• Upgrade from Model D320 to D390 2-way		A4908A*	855	
	• Upgrade from Model D330 to D390 2-way		A4908A*	856	
	• Upgrade from Model D350 1-way to D390 2-way		A4908A*	852	
	• Upgrade from Model D350 2-way to D390 2-way		A4908A*	853	
	• Upgrade from Model D360 2-way to D390 2-way		A4908A*	854	
	• Upgrade from Model D370 1-way to D390 2-way		A4908A*	857	
	• Upgrade from Model D370 2-way to D390 2-way		A4908A*	858	
	• Upgrade from Model D380 1-way to D390 2-way		A4908A*	859	
	• Upgrade from Model D380 2-way to D390 2-way		A4908A*	860	
	• Upgrade from Model D390 1-way to D390 2-way		A4908A*	861	
	(Note: If the current D-Class system has the Artist Color 2D Graphics Interface Card, A4077A, that card is not compatible with the upgraded system and will need to be replaced by the Enhanced Graphics Interface Card, A4450A; both cards may be used in slot 0 only)				
2.0	<b>D-Class Expansion Upgrade</b>				
	<b>Model D2xx to D3xx Expansion Upgrade (Optional -- Max 1)</b>				
	• Model D2xx to D3xx Expansion Upgrade (Includes Hot Pluggable disk upgrade) (Note: The above upgrade provides only an expansion of a D2xx system into a D3xx system. To also upgrade the performance level, this upgrade must be ordered in combination with a performance upgrade from Section 1)	[ ]	A3383A*		
	• <b>Add Remote Management Port with Expansion Upgrade (Required -- Max 1)</b>	[ ]	A3383A*	001	
	• <b>Add Fast/Wide/Differential SCSI-2 Interface (Required -- Max 1 -- only if a F/W/D interface is not installed in D2xx system to be upgraded.)</b>	[ ]	A3383A*	002	
	<b>Supplemental System Support (Optional)</b>				
	(Select an OSx option for one year of upfront support. Select a 3Yx option for 3 years of upfront support.)				
	NOTE: For each order ensure that a consistent duration (1 yr. or 3 yrs.) of support is purchased. When purchasing three-year support options on products with a one-year warranty, match 3Yx option hardware response time to one-year warranty response time to ensure consistent level of support beyond the warranty.				
	IMPORTANT: Not all option features are offered with every option or supported product. Some of the HW option features (response time) are included with the standard warranty for the product.				
	License to use SW/Next day HW support	[ ]		OS0 or 3Y0	
	License to use SW/Same day HW support	[ ]		OS1 or 3Y1	
	Telephone SW/Next day HW support	[ ]		OS2	



Description		Product #	Opt #	Price
			or	
			3Y2	
Telephone SW/Same day HW support	[ ]		OS3	
			or	
			3Y3	
License to use SW/24 x 7 HW support	[ ]		OS5	
			or	
			3Y5	
Telephone SW/24 x 7 HW support	[ ]		OS6	
			or	
			3Y6	
<b>Additional System Support Options</b>				
<b>Personalized System Support (Optional)</b>		[ ]	OS9	
(Select the OS9 option on each processor. Requires options OS2/3Y2, OS3/3Y3, or OS6/3Y6 on same product)				
NOTE: OS9 is not offered as a Multiyear System Support Option				
<b>Installation and Network Configuration (Optional)</b>				
Network Configuration	[ ]		OSZ	
(Select the OSZ option(s) on the processor and on additional network cards)				

## hp server rx4610

	Description		Product #	Opt #	Price
*	It is highly recommended that all orders be processed using a configurator to assure proper configuration. Note: Sections 1.0 through to 6.0 are o/s independent				
1.0	hp server rx4610 (Required -- Max 1. Base system includes two processors, LS-120 floppy, DVD ROM) Model rx4610 733MHz 2MB L3 Cache Base System Model rx4610 800 MHz 4 MB L3 Cache Base System	[ ] [ ]	A6153A A6447A		
2.0	Additional Processor Modules (Optional -- Max 2. Processor frequencies cannot be mixed within a system) 733MHz Processor w/2MB L3 Cache 800 MHz Processor w/4MB L3 Cache	[ ] [ ]	A6165A A6448A	OD1 OD1	
3.0	Memory Modules (Required -- 64 slots, must order and install in quads, max 16 quads, must order at least one quad) 1024MB Memory (4 x 256MB DIMMS) 2048 MB Memory (4 x 512MB DIMMS) 4096MB Memory (4 x 1024MB DIMMS)	[ ] [ ] [ ]	A6168A A6169A A6170A	OD1 OD1 OD1	
4.0	Internal Disk Drives (Required) Must order 2 drives 36 GB Low Profile Hot Plug SCSI Disk	[ X ]	A6171A	OD1	
5.0	Factory and Field Rack Integration Kit for Itanium Server (Required -- Max 1 per server) Field Rack Kit (Needed for field integration into 19" wide HP Rack System/E) Note: Field Rack Kit includes rails, power cord for HP PDU's Wall power cord based on Country Code Note: Refer to the Storage, Accessories, and Other Peripherals chapter of the Ordering Guide for field rack menu Factory Rack Integration into Rack System/E cabinet (rack kit hardware and integration service) Note: Must order 2M (A4902A), 1.6M (A4901A) or 1.25M (A4900A) Rack System/E in same order section. Note: See Systems chapter of the Ordering Guide for factory integrated cabinet menu. Note: Interconnect and configuration of this product with other products in the racked solution being ordered will be performed by the factory only when specified via a Solution Integration Service Plan (A3142B #002) with a detailed Visio Drawing attachment. Otherwise, data cable may ship unconnected and the switch settings on the products may not be configured.	[ ] [ ] [ ]	A6383A  A6383AZ	 AOA	
6.0	System Monitors and Keyboard (Optional -- most VGA monitors will work - Max 1. Sugestions below) HP 17" Color Monitor Localization (See Corporate Price List (CPL) for current localization options) Keyboard Localization (See Corporate Price List (CPL) for current localization options) Mouse Monitor: HP 15" Rackmount Flat Panel Monitor with Keyboard and Trackball (not recommended for HP-UX users)	[ ] [ ] [ ] [ ]	D8904A  D8597A  C3751B J1470A	#____ #____	
<b>Ordering HP-UX Operating System and Associated Components</b>					
7.0	HP-UX 11i IPF Operating Environment per CPU License-to-Use Note: one license must be ordered for each active processor Note: The server can only run one o/s at a time.	[ ]	B9429AC		
7.1	Operating System Media (Required -- Max 1) Media: one copy required for each site. HP-UX 11i Media for Itanium Systems DVD Media Factory Integration (preloads HP-UX 11i, online diagnostics, gigabit ethernet and fibre channel network drivers)	[ ] [ ] [ ]	B9106AA	AJR OD1	
	HP-UX Version (one option is required if media is ordered) HP-UX Version 11i Version 1.5	[ ]		UME	
7.2	Localization for HP-UX System Messages & Documentation (Required -- Max 1) English Localization (required)	[ ]		ABA	

	Description		Product #	Opt #	Price
7.3	PCI I/O cards (Optional- 10 slots available, any combination)				
7.4	Mass Storage Adapters for HP-UX users				
	Single Port 2X Fibre Channel Adapter	[ ]	A5158A	0D1	
	Dual port Ultra-2 SCSI Interface card	[ ]	A5150A	0D1	
	Dual port Fast/Wide/Differential SCSI-2 Interface card	[ ]	A5159A	0D1	
7.5	Local Area Network (LAN) Adapters for HP-UX Users				
	1000base-T PCI Gigabit Ethernet LAN Adapter	[ ]	A4929A	0D1	
	1000baseSX PCI LAN Adapter	[ ]	A4926A	0D1	
	10/100base-TX LAN Adapter	[ ]	A6792A	0D1	
7.6	I/O and Network Documentation and Release Notes (Optional- Max 5)	[ ]	A5207A		
	Documentation and release notes for each I/O card in the server				
7.7	External Peripherals & Media Drives for HP-UX Users (Optional)				
	Refer to the Storage, Accessories, and Other Peripheral chapter of the Ordering Guide for menus				
7.8	Uninterruptible power supply (UPS) for HP-UX Users (Optional-no max)				
	Minimum power protection for single server - PowerTrust II-LR 2.1kW/3.0kVA UPS 230V (A1356A)				
	Also available - PowerTrust II-MR (A6583A), PowerTrust II-MR (A6584A), PowerTrust II-MR (A6585A)				
	Refer to the Storage, Accessories, and Other Peripherals chapter of the Ordering Guide for menus				
7.9	Solution Integration Services for HP-UX Users				
	<i>Basic SISP Configuration - includes custom racking only.</i>	[ ]	A3142B	001	
	<i>Enhanced SISP Configuration - includes option 001 racking plus solution interconnect and configuration only.</i>	[ ]	A3142B	002	
	<i>Note: Submittal form required to request Solution Integration Service Plan (SISP); go to the configuration guide or the external web site <a href="http://www.sisp.hp.com">http://www.sisp.hp.com</a> for more information</i>				
	<i>Additional integration and installation services are available: refer to the "How to Order Support" chapter of the Ordering Guide.</i>				
<b>Ordering Windows Operating System and Associated Components</b>					
8.0	64-Bit Windows Operating System Media (Required -- Max 1) Required: must also order one (1) of the two base system models offered in Section 1.0 64-Bit Windows DVD Media Kit (Installation instructions included) Note: The server can only run one o/s at a time.	[ ]	P4650A		
8.1	PCI I/O cards for 64-Bit Windows users (Optional- 10 slots available, any combination. AVAILABLE THROUGH CHANNEL ONLY. Refer to Product Update Sheet at <a href="http://netserver.hp.com/netserver/support/compatibility/compatibility.asp">http://netserver.hp.com/netserver/support/compatibility/compatibility.asp</a> for supported configuration information. Recommended cards below.)				
8.2	Recommended Mass Storage Adapters for 64-Bit Windows Users Emulex LP8000-N1 Fibre Channel host bus adapter, 1Gb Adaptec AHA-29160 (1 Channel Ultra 160 SCSI) AMI MegaRAID Enterprise 1600 (4 Channel Ultra 160 SCSI RAID, 64 MB)				
8.3	Recommended Local Area Network (LAN) Adapters for 64-Bit Windows Users Intel Pro/1000T Server Adapter (Intel p/n PWLA 8490T) Intel Pro/100+ Server Adapter (Intel p/n PILA 8470B)				
8.4	Uninterruptible power supply (UPS) for Windows and Linux Users (Optional-no max) Refer to Product Update Sheet at <a href="http://netserver.hp.com/netserver/support/compatibility/compatibility.asp">http://netserver.hp.com/netserver/support/compatibility/compatibility.asp</a>				
<b>Ordering Linux Operating System and Associated Components</b>					
9.0	Operating System Media 64-Bit Linux-Ready System Option ( LINUX MEDIA AVAILABLE THROUGH CHANNEL ONLY. FOR LINUX USERS, ORDER BASE SYSTEM FROM SECTION 1.0 Refer to Product Update Sheet at <a href="http://netserver.hp.com/netserver/support/compatibility/compatibility.asp">http://netserver.hp.com/netserver/support/compatibility/compatibility.asp</a> for supported configuration information. Recommended cards below.) Note: The server can only run one o/s at a time.				
9.1	PCI I/O cards for 64-Bit Linux users (Optional- 10 slots available, any combination. AVAILABLE THROUGH CHANNEL ONLY. Refer to Product Update Sheet at <a href="http://netserver.hp.com/netserver/support/compatibility/compatibility.asp">http://netserver.hp.com/netserver/support/compatibility/compatibility.asp</a> for supported configuration information. Recommended cards below.)				
9.2	Recommended Mass Storage Adapters for 64-Bit Linux Users Emulex LP8000-N1 Fibre Channel host bus adapter, 1Gb				



	Description	Product #	Opt #	Price
	Adaptec AHA-29160 (1 Channel Ultra 160 SCSI)			
	AMI MegaRAID Enterprise 1600 (4 Channel Ultra 160 SCSI RAID, 64 MB)			
9.3	Recommended Local Area Network (LAN) Adapters for 64-Bit Linux Users			
	Intel Pro/1000T Server Adapter (Intel p/n PWLA 8490T)			
	Intel Pro/100+ Server Adapter (Intel p/n PILA 8470B)			
9.4	Uninterruptible power supply (UPS) for Windows and Linux Users (Optional-no max)			
	Refer to Product Update Sheet at <a href="http://netserver.hp.com/netserver/support/compatibility/compatibility.asp">http://netserver.hp.com/netserver/support/compatibility/compatibility.asp</a>			
10.0	<b>Ordering Support and Services</b>			
	To order support, refer to the Systems Support menu and select the desired support options			

## HP 9000 L3000 Enterprise Servers

	Description		Product #	Opt #	Price
1.0	<b>HP 9000 L-3000 Enterprise Server (Required -- Max 1)</b> Model L3000 SMP Base System (does not include memory or CPUs; rack ready- See Sec. 8; System includes Secure Web Console. The Secure Web Console provides local or remote console functionality over a LAN or any PC with web browser functionality.) <i>Select the desired supplemental System Support Option for each ordered product noted with an asterisk(*)</i> .	[ ]	A6144A	[ ]	
1.1	<b>Embedded System I/O (Required Max 1)</b> (includes USII, 10/100BT LAN, 10/100 BT Management LAN with web console access, 3 RS232: Console, remote console, UPS)	[ ]	A6696B	OD1	
2.0	<i>Enter the following menu selections as sub-items to the server selected in 1.0 above.</i> <b>Processor Modules (Required -- Max 4. Processor frequencies cannot be mixed within a system)</b> 550 MHz PA-RISC 8600 CPU with 1.5 MB Integrated cache	[ ]	A6146A	OD1	
2.1	<b>iCOD Processor Modules</b> iCOD Right to Access 550MHz PA-8600 processor Note: To use a 550MHz iCOD CPU order A6141A iCOD CPU Agent License (required if ordering A6140A)	[ ]	A6140A	OD1	
		[ ]	B9073AA	OD1	
2.2	<b>Processor Support Modules (Required -- Max 2)</b> Processor support module (one support module required for every two CPUs)	[ ]	A5796A	OD1	
3.0	<b>Memory Modules (Min 1 -- Max 8)</b> 256 MB high-density SyncDRAM memory module (uses 2 SIMM slots) 512 MB high-density SyncDRAM memory module (uses 2 SIMM slots) 1024 MB high-density SyncDRAM memory module (uses 2 SIMM slots) 2048 MB high-density SyncDRAM memory module (uses 2 SIMM slots)	[ ]	A5554A	OD1	
		[ ]	A5797A	OD1	
		[ ]	A5798A	OD1	
		[ ]	A6115A	OD1	
3.1	<b>Memory Carrier Board (Min 1 -- Max 2)</b> Memory Extender (1 required for every 4 Memory Modules)	[ ]	A6155A	OD1	
4.0	<b>Internal Disk Drives (Optional -- Max 4)</b> 18 GB HotPlug Ultra2 SCSI Half Height Disk 36 GB HotPlug Ultra2 SCSI Half Height Disk 73 GB HotPlug Ultra2 SCSI Half Height Disk	[ ]	A5803A	OD1	
		[ ]	A6110A	OD1	
		[ ]	A6091A	OD1	
5.0	<b>Internal Removable Media (Optional -- Max 1)</b> DVD-ROM 12GB DAT	[ ]	A5557A	OD1	
		[ ]	A5558A	OD1	
6.0	<b>PCI HotPlug I/O cards (Optional -- Max 10, any combination)</b>				
6.1	<b>Mass Storage Adapters</b> (*Note that a terminator is NOT included when ordering A5149A, A5150A, A5159A, or A5838A. Please order terminator(s) separately. See Chap. 4, Section "Cables & Accessories". RAID 4si - PCI 4 Port Ultra2 LVD/SE RAID Controller Factory Integrated PCI2x Single Port Fibre Channel Adapter Single port Ultra2 LVD/SE SCSI Interface card* Dual port Ultra2 LVD/SE SCSI Interface card* Dual port Fast/Wide/Differential SCSI-2 Interface card* Single port Fast/Wide/Differential SCSI-2 Interface card Single port Fast/Wide/Differential SCSI-2 Terminator (must if ordering A4800A) Dual Port 100Base-T and Dual Port Ultra2 LVD/SE SCSI Combo Card*	[ ]	A5856A		
		[ ]		OD1	
		[ ]	A5158A	OD1	
		[ ]	A5149A	OD1	
		[ ]	A5150A	OD1	
		[ ]	A5159A	OD1	
		[ ]	A4800A	OD1	
		[ ]		002	
		[ ]	A5838A	OD1	
6.2	<b>Local Area Network (LAN) Adapters</b> 1000 Base-T PCI Gigabit Ethernet LAN Adapter Single port 1000baseSX Ethernet LAN Adapter Single port 1000baseSX Ethernet LAN Manual 4 Port 100baseTX Ethernet LAN Adapter Single port 100baseTX Ethernet LAN Adapter Single port 10/100B-TX (AUI, BNC, RJ45) 100 Base-FX LAN Adapter FDDI Universal PCI Dual LAN Adapter Manual	[ ]	A4929A	OD1	
		[ ]	A4926A	OD1	
		[ ]	J1643AA		
		[ ]	A5506B	OD1	
		[ ]	A5230A	OD1	
		[ ]	A3738A	OD1	
		[ ]	A5172A		
		[ ]	A3739B	OD1	
		[ ]	J3628AA		

	Description		Product #	Opt #	Price
	ATM 155 Mb/s LAN Adapter (MMF connector)	[ ]	A5513A	OD1	
	ATM 155 Mb/s LAN Adapter (UTP5 connector)	[ ]	A5515A	OD1	
	ATM 622 Mb/s LAN Adapter (MMF connector)	[ ]	A5483A	OD1	
	802.5 Token ring 4, 16, 100 Mb/s operation LAN Adapter	[ ]	A5783A	OD1	
6.3	<b>Wide Area Network (WAN) Adapters</b>				
	2 Port X.25/Frame Relay/SDLC Interface card (choose appropriate cables below) (Max 4)	[ ]	J3525A	OD1	
	Two RS530 Interface Cables	[ ]		001	
	Two RS449 Interface Cables	[ ]		AFQ	
	Two RS232 Interface Cables	[ ]		1AT	
	Two V.35 Interface Cables	[ ]		1AU	
	Two X.21 Interface Cables	[ ]		AFR	
	X.25, SDLC Software & LTU (must if ordering J3525A)	[ ]	J2793B	OD1	
	X.25SDLC Tier 1 LTU (must if ordering J3525A)	[ ]		AHO	
	X.25, Frame Relay, SDLC Standard Performance Level Media and LTU (must if ordering J3525A)	[ ]		100	
	4 Port X.25/Frame Relay Interface card (choose appropriate cables below)	[ ]	J3526A	OD1	
	RS530 Interface Cable	[ ]		001	
	V.35 Interface Cable	[ ]		1AU	
	RS449 Interface Cable	[ ]		AFQ	
	X.21 Interface Cable	[ ]		AFR	
	RS232 Interface Cable	[ ]		1AT	
	Frame Relay LTU	[ ]	J3529A	OD1	
	Frame Relay Tier 1 LTU	[ ]		AHO	
	Praesidium Speed Card (subject to U.S. Encryption law. Can ship to U.S. and Canada)	[ ]	A5486A		
6.4	<b>Serial Multiplexer Products</b>				
	8 Port Multiplexer Card (must order port modules below. Max 4)	[ ]	A6748A	OD1	
	8 Port Multiplexer Card (must order port modules below) Add Manual Set	[ ]		001	
	64 Port Multiplexer Card (must order port modules below)	[ ]	A6749A	OD1	
	64 Port Multiplexer Card (must order port modules below) Add Manual Set	[ ]		001	
	16 Port RS232 RJ45 module	[ ]	J2484A		
	16 Port RS232 DB25 module	[ ]	J2485A		
	16 Port RS422 RJ45 module	[ ]	J2501A		
	RJ45 to HP-DB25 converters for Multiplexer	[ ]	J3830A		
	RJ45 to HP-RJ45 converters for Multiplexer	[ ]	J2488A		
6.5	<b>Cluster Interconnect</b>				
	Hyperfabric Interconnect Adapter Card	[ ]	A6092A	OD1	
	<b>PCI Hyperfabric2 fiber Adapter Card</b>	[ ]	A6386A	OD1	
	<b>Release Notes</b>	[ ]		AVN	
6.6	<b>I/O and Network Documentation and Release Notes</b>				
	Documentation and release notes for each I/O card in the server (Optional – Max 5)	[ ]	A5207A		
7.0	<b>System Console -- Select with localization option (Optional -- Max 1)</b>				
	Terminal console (keyboard included)	[ ]	C1099A	#_	
	<i>Note: Each L2000 includes the Secure Web Console as a no charge ship along, and can be used instead of the terminal console. The Secure Web Console provides local or remote console functionality over a LAN on any PC with web browser functionality.</i>				
8.0	<b>Standalone Deskside or Racked configuration (Optional -- Max 1)</b>				
8.1	Standalone/Deskside (stand for L-Class)	[ ]	A5525A		
8.2	Racked Configuration -- Cabinets must be on the same order section for Factory integration.				
	Factory Racked using High Availability slider rails (recommended for serviceability)	[ ]	A5581A		
	Factory Racked using static rails	[ ]	A5580A		
9.0	<b>Power Protection</b>				
9.1	Redundant System Hotswap Power Supply (Optional -- Max 2)				
	Additional Hotswap power supply for N + 1 or 2 redundancy	[ ]	A5527A	OD1	
9.2	Power Protection -- Uninterruptible power supply (UPS) (Optional -- No Max)				
	* See Chapter 4 Storage, Accessories, and Other Peripherals HP PowerTrust UPS for ordering instructions.				
	See Rack Cabinet menu for racked UPS products.				
	PowerTrust II-LR 1.4kW/2.0kVAUPS 120V	[ ]	A1353A	*	
	PowerTrust II-LR 1.4kW/2.0kVA UPS 230V	[ ]	A1354A	*	



	Description		Product #	Opt #	Price
	PowerTrust II-LR 2.1kW/3.0kVA UPS 230V	[ ]	A1356A	*	
	PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS)	[ ]	A1357A	*	
	PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A	*	
	PowerTrust II-MR 4.0kW/4.5kVA UPS 230V	[ ]	A6583A		
	Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-M4.0kW Battery Pack note: 3 additional battery packs for a max of 4	[ ]	A6586A		
	PowerTrust II-MR 6.5kW/9kVA UPS 230V	[ ]	A6584A		
	Includes; one battery pack set, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-MR 6.5kW/8kW Battery Pack Set (2 batteries/set)	[ ]	A6587A		
	SNMP Card Communication Kit	[ ]	A6593A		
	Contact Closure Card Kit w/cable (direct connection w/native NT or remote status connection	[ ]	A6597A		
10.0	<b>HP-UX Operating Environment License-to-Use (Required)</b> <i>Choose one of the following four Operating Environments (OE) License-to-Use. License covers all HP-UX versions 11i and previous. Then choose OE Type, Release Level, Language, Instant Ignition and Media</i>				
	HP-UX Operating Environment License-to-Use - Basic Environment -- does not include additional products	[ ]	B9088AA	AE5	
	HP-UX 11i Enterprise Operating Environment License-to-Use	[ ]	B9090AA	AE5	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use	[ ]	B9092AA	AE5	
	HP-UX 11i Technical Computing Operating Environment License-to-Use	[ ]	B6822AA	AE5	
10.1	<b>HP-UX Operating Environment Type, Release Level, Language, Media, and Instant Ignition (optional)</b> <i>Choose one of the following four media products</i> <i>Must specify one release level and one language. Choose Instant Ignition or a CD kit or both.</i>				
	<b>HP-UX Operating Environment (Basic environment - no additional products included)</b>	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11.0	[ ]		UM4	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY <i>Note: The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, ASG or AUD)	[ ]		AU9	
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	



	Description		Product #	Opt #	Price
11.0	System Integration Specification Plan <i>Note: Submittal form required to request System Integration Specification Plan (SISP); see configuration guide</i>	[ ]	A3142B		
	Basic SISP Configuration - includes custom root volume LVM, kernel parms, racking, and patch loading	[ ]		001	
	Enhanced SISP Configuration - includes option 001 contents plus extended LVM and mirrored disk configuration	[ ]		002	
12.0	Supplemental Systems Support				

To order support, refer to the Systems Support menu and select the desired supplemental System Support Option for each ordered product. For Systems Management section, please refer to Figure 2.1 for ServiceControl /sessential.

## HP 9000 L2000 Enterprise Servers

	Description		Product #	Opt #	Price
1.0	<b>HP 9000 L2000 Enterprise Server</b> (Required -- Max 1) Model L2000 SMP Base System (does not include memory or CPUs; rack ready--See Sec. 8)	[ ]	A5191B		
1.1	<b>Embedded System I/O (GSP) (Required Max 1)</b> (includes USII, 10/100BT LAN, 10/100BT Management LAN with web console access, 3 RS232: console, remote console, UPS)	[ ]	A6696B	0D1	
	LAN, 3 RS232: Console, remote console, general purpose)				
	<i>Enter the following menu selections as sub-items to the server selected in 1.0 above.</i>				
2.0	<b>Processor Modules</b> (Required -- Max 4. Processor frequencies should not be mixed within a 540* MHz PA-RISC 8600 CPU with 1.5 MB integrated cache (*Note: PA-8600 550MHz CPU runs at 540MHz in L1000 & L2000 systems)	[ ]	A6146A	0D1	
	440 MHz PA-RISC 8500 CPU with 1.5 MB Integrated cache	[ ]	A5522A	0D1	
	360 MHz PA-RISC 8500 CPU with 1.5 MB Integrated cache	[ ]	A5521A	0D1	
2.1	<b>Processor Support Modules</b> (Required -- Max 2) Processor support module (one support module required for every two CPUs)	[ ]	A5796A	0D1	
2.2	<b>iCOD Processor Modules</b> iCOD <u>Right to Access</u> 360 MHz PA-RISC 8500 processor (required)	[ ]	A6136A	0D1	
	iCOD <u>Enablement Fee</u> for 360 MHz PA-RISC 8500 processor	[ ]	A6137A		
	iCOD <u>Right to Access</u> 440 MHz PA-RISC 8500 processor--	[ ]	A6138A	0D1	
	iCOD <u>Enablement Fee</u> for 440 MHz PA-RISC 8500 processor	[ ]	A6139A		
	iCOD <u>Right to Access</u> 540MHz PA-RISC 8600 processor	[ ]	A6140A	0D1	
	iCOD <u>Enablement Fee</u> for 540 MHz PA-RISC 8600 processor	[ ]	A6141A		
3.0	<b>Memory Modules</b> (Min 1 -- Max 8) 256 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A5554A	0D1	
	512 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A5797A	0D1	
	1024 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A5798A	0D1	
	2048 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A6115A	0D1	
4.0	<b>Internal Disk Drives</b> (Optional -- Max 4) 18 GB HotPlug Ultra2 SCSI Half Height Disk	[ ]	A5803A	0D1	
	36 GB HotPlug Ultra2 SCSI Half Height Disk	[ ]	A6110A	0D1	
	73 GB HotPlug Ultra2 SCSI Half Height Disk	[ ]	A6091A	0D1	
5.0	<b>Internal Removable Media</b> (Optional -- Max 1) DVD-ROM	[ ]	A5557A	0D1	
	12GB DAT	[ ]	A5558A	0D1	
6.0	PCI HotPlug I/O cards (Optional -- Max 10, any combination)				
6.1	<b>Mass Storage Adapters</b> (*Note that a terminator is NOT included when ordering A5149A, A5150A, A5159A, or A5838A. Please order terminator(s) separately. See Chap. 4, Section "Cables & Accessories". RAID 4si - PCI 4 Port Ultra2 LVD/SE RAID Controller	[ ]	A5856A		
	Factory Integrated	[ ]		0D1	
	PCI2x Single Port Fibre Channel Adapter	[ ]	A5158A	0D1	
	Single port Ultra2 LVD/SE SCSI Interface card*	[ ]	A5149A	0D1	

	Description		Product #	Opt #	Price
	Dual port Ultra2 LVD/SE SCSI Interface card*	[ ]	A5150A	0D1	
	Dual port Fast/Wide/Differential SCSI-2 Interface card*	[ ]	A5159A	0D1	
	Single port Fast/Wide/Differential SCSI-2 Interface card	[ ]	A4800A	0D1	
	Single port Fast/Wide/Differential SCSI-2 Terminator (must if ordering A4800A)	[ ]		002	
	Dual Port 100Base-T and Dual Port Ultra2 LVD/SE SCSI Combo Card*	[ ]	A5838A	0D1	
6.2	Local Area Network (LAN) Adapters				
	1000 Base-T PCI Gigabit Ethernet LAN Adapter	[ ]	A4929A	0D1	
	Single port 1000baseSX Ethernet LAN Adapter	[ ]	A4926A	0D1	
	Single port 1000baseSX Ethernet LAN Manual	[ ]	J1643AA		
	4 Port 100baseTX Ethernet LAN Adapter	[ ]	A5506B	0D1	
	Single port 100baseTX Ethernet LAN Adapter	[ ]	A5230A	0D1	
	Single port 10/100B-TX (AUI, BNC, RJ45)	[ ]	A3738A	0D1	
	100 Base-FX LAN Adapter	[ ]	A5172A		
	FDDI Universal PCI Dual LAN Adapter	[ ]	A3739B	0D1	
	Manual	[ ]	J3628AA		
	ATM 155 Mb/s LAN Adapter (MMF connector)	[ ]	A5513A	0D1	
	ATM 155 Mb/s LAN Adapter (UTP5 connector)	[ ]	A5515A	0D1	
	ATM 622 Mb/s LAN Adapter (MMF connector)	[ ]	A5483A	0D1	
	802.5 Token ring 4, 16, 100 Mb/s operation LAN Adapter	[ ]	A5783A	0D1	
6.3	Wide Area Network (WAN) Adapters				
	2 Port X.25/Frame Relay/SDLC Interface card (choose appropriate cables below) (Max 4)	[ ]	J3525A	0D1	
	Two RS530 Interface Cables	[ ]		001	
	Two RS449 Interface Cables	[ ]		AFQ	
	Two RS232 Interface Cables	[ ]		1AT	
	Two V.35 Interface Cables	[ ]		1AU	
	Two X.21 Interface Cables	[ ]		AFR	
	X.25, SDLC Software & LTU (must if ordering J3525A)	[ ]	J2793B	0D1	
	X.25SDLC Tier 1 LTU (must if ordering J3525A)	[ ]		AHO	
	X.25, Frame Relay, SDLC Standard Performance Level Media and LTU (must if ordering J3525A)	[ ]		100	
	4 Port X.25/Frame Relay Interface card (choose appropriate cables below)	[ ]	J3526A	0D1	
	RS530 Interface Cable	[ ]		001	
	V.35 Interface Cable	[ ]		1AU	
	RS449 Interface Cable	[ ]		AFQ	
	X.21 Interface Cable	[ ]		AFR	
	RS232 Interface Cable	[ ]		1AT	
	Frame Relay LTU	[ ]	J3529A	0D1	
	Frame Relay Tier 1 LTU	[ ]		AHO	
	Praesidium Speed Card (subject to U.S. Encryption law. Can ship to U.S. and Canada)	[ ]	A5486A		
6.4	Serial Multiplexer Products				
	8 Port Multiplexer Card (must order port modules below. Max 4)	[ ]	A6748A	0D1	
	8 Port Multiplexer Card (must order port modules below) Add Manual Set	[ ]		001	
	64 Port Multiplexer Card (must order port modules below)	[ ]	A6749A	0D1	
	64 Port Multiplexer Card (must order port modules below) Add Manual Set	[ ]		001	
	16 Port RS232 RJ45 module	[ ]	J2484A		
	16 Port RS232 DB25 module	[ ]	J2485A		
	16 Port RS422 RJ45 module	[ ]	J2501A		
	RJ45 to HP-DB25 converters for Multiplexer	[ ]	J3830A		
	RJ45 to HP-RJ45 converters for Multiplexer	[ ]	J2488A		
6.5	Cluster Interconnect				
	Hyperfabric Interconnect Adapter Card	[ ]	A6092A	0D1	
	PCI Hyperfabric2 Interconnect Adapter Card	[ ]	A6386A	0D1	
	Release Notes	[ ]		AVN	
6.6	I/O and Network Documentation and Release Notes				
	Documentation and release notes for each I/O card in the server (Optional – Max 5)	[ ]	A5207A		
7.0	L-Class Graphics Solution (Optional Max 1 per system )				
	PCI 2D Graphics and 2port USB Adapters –Requires graphics monitor (D8912W or D2815W) and keyboard (A4983B)	[ ]	A6150B	0D1	
	HP VISUALIZE CAD Keyboard Kit w/3 Button Mouse (no scroll)	[ ]	A4983B		

## Chapter 2 L-Class Enterprise Servers



	Description		Product #	Opt #	Price
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#	
	Substitute scroll mouse	[ ]		064	
	19" Color Monitor/ 18" viewable image	[ ]	D2812W		
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#	
	21" Color Monitor/ 19" viewable image	[ ]	D2815W		
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#	
8.0	System Console -- Select with localization option (Optional -- Max 1)				
	Terminal console (keyboard included)	[ ]	C1099A	#	
	<i>Note: Each L2000 includes the Secure Web Console as a no charge ship along, and can be used instead of the terminal console. The Secure Web Console provides local or remote console functionality over a LAN on any PC with web browser functionality.</i>				
9.0	Standalone Deskside or Racked configuration (Optional -- Max 1)				
9.1	Standalone/Deskside (stand for L-Class)	[ ]	A5525A		
9.2	Racked Configuration -- Cabinets must be on the same order section for Factory integration.				
	Factory Racked using High Availability slider rails (recommended for serviceability)	[ ]	A5581A		
	Factory Racked using static rails	[ ]	A5580A		
10.0	<b>Carrier Grade</b> Products (all memory, CPUs, disc, and other peripherals are common with the L-Class)				
10.1	HP9000 L-2000 <b>Carrier Grade</b> Enterprise Server (Required -- Max 1)	[ ]	Z7535A		
	Model L2000 SMP Base System (does not include memory or CPUs; rack ready -- See Sec. 8)				
10.2	Racked <b>Carrier Grade</b> Configuration --Cabinets must be on same order section for factory integration	[ ]	Z7543A		
	Factory Racked using HA slider rails				
10.3	Redundant <b>Carrier Grade</b> System Hotswap DC Power Supply (Optional -- Max 1)				
10.4	Additional Hotswap DC power supply for N+ 1 redundancy	[ ]	Z7538A	0D1	
11.0	Power Protection				
11.1	Redundant System Hotswap Power Supply (Optional -- Max 2)				
	Additional Hotswap power supply for N+ 1 or 2 redundancy	[ ]	A5527A	0D1	
11.2	Power Protection -- Uninterruptible power supply (UPS) (Optional -- No Max)				
	* See Chapter 4 Storage, Accessories, and Other Peripherals HP PowerTrust UPS for ordering instructions.				
	See Rack Cabinet menu for racked UPS products.				
	PowerTrust II-LR 1.4kW/2.0kVAUPS 120V	[ ]	A1353A	*	
	PowerTrust II-LR 1.4kW/2.0kVA UPS 230V	[ ]	A1354A	*	
	PowerTrust II-LR 2.1kW/3.0kVA UPS 230V	[ ]	A1356A	*	
	PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS)	[ ]	A1357A	*	
	PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A	*	
	PowerTrust II-MR 4.0kW/4.5kVA UPS 230V	[ ]	A6583A		
	Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-M4.0kW Battery Pack note: 3 additional battery packs for a max of 4	[ ]	A6586A		
	PowerTrust II-MR 6.5kW/9kVA UPS 230V	[ ]	A6584A		
	Includes; one battery pack set, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-MR 6.5kW/8kW Battery Pack Set (2 batteries/set)	[ ]	A6587A		
	SNMP Card Communication Kit	[ ]	A6593A		
	Contact Closure Card Kit w/cable (direct connection w/native NT or remote status connection)	[ ]	A6597A		
12.0	<b>HP-UX Operating Environment License-to-Use (Required)</b>				
	<b>Choose one of the following four Operating Environments (OE) License-to-Use. License covers all HP-UX versions 11i and previous. Then choose OE Type, Release Level, Language, Instant Ignition and Media</b>				
	HP-UX Operating Environment License-to-Use - Basic Environment -- does not include additional products	[ ]	B9088AA	AE5	
	HP-UX 11i Enterprise Operating Environment License-to-Use	[ ]	B9090AA	AE5	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use	[ ]	B9092AA	AE5	
	HP-UX 11i Technical Computing Operating Environment License-to-Use	[ ]	B6822AA	AE5	
12.1	<b>HP-UX Operating Environment Type, Release Level, Language, Media, and Instant Ignition (optional)</b>				



	Description		Product #	Opt #	Price
	<i>Choose one of the following four media products</i>				
	<i>Must specify one release level and one language. Choose Instant Ignition or a CD kit or both.</i>				
	<b>HP-UX Operating Environment (Basic environment - no additional products included)</b>	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11.0	[ ]		UM4	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY				
	<i>Note: The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition	[ ]		AU8	
	(optional, cannot be ordered with option AUA, AU9, ASG or AUD)				
	Compute Server Configuration Instant Ignition	[ ]		AU9	
	(optional, cannot be ordered with option AUA, AU8, ASG or AUD)				
	HFS Configuration Instant Ignition	[ ]		ASG	
	(optional, cannot be ordered with option AUA, AU8, AU9 or AUD)				
	Internet Configuration Instant Ignition	[ ]		AUD	
	(optional, cannot be ordered with option AUA, AU8, AU9 or ASG)				
	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
	NFS Server Configuration instant ignition	[ ]		AU8	
	(optional, cannot be ordered with option AU9, ASG or AUD)				
	Compute Server Configuration instant ignition	[ ]		AU9	
	(optional, cannot be ordered with option AU8, ASG or AUD)				
	HFS Configuration instant ignition	[ ]		ASG	
	(optional, cannot be ordered with option AU8, AU9 or AUD)				
	Internet Configuration instant ignition	[ ]		AUD	
	(optional, cannot be ordered with option AU8, AU9 or ASG)				
12.4	HP-UX Operating System Media (Optional -- Max 1)				
	<i>One copy recommended for each site.</i>				
	CD Media Kit	[ ]		AAF	
12.5	HP-UX User License (Required)				
	HP-UX revision 11.0 user license	[ X ]	B3919EA	UM4	
	Unlimited user license	[ X ]		2A5	
13.0	System Integration Specification Plan	[ ]	A3142B		
	<i>Note: Submittal form required to request System Integration Specification Plan (SISP); see configuration guide</i>				
	Basic SISP Configuration - includes custom root volume LVM, kernel parms, racking, and patch loading	[ ]		001	
	Enhanced SISP Configuration - includes option 001 contents plus extended LVM and mirrored disk configuration	[ ]		002	
14.0	Supplemental Systems Support				

To order support, refer to the Systems Support menu and select the desired supplemental System Support Option for each ordered product. For Systems Management section, please refer to Figure 2.1 for ServiceControl *issential*.

## HP 9000 L1000 Enterprise Servers

	Description		Product #	Opt #	Price
1.0	HP 9000 L1000 Enterprise Server (Required -- Max 1) Model L1000 SMP Base System (does not include memory or CPUs; rack ready--See Sec. 8)	[ ]	A5576B		
1.1	<b>Embedded System I/O (GSP)(Required Max 1)</b> (includes USII, 10/100BT LAN, 10/100BT LAN Management LAN with web console access, 3 RS232:Console, remote console,UPS) LAN, 3 RS232: Console, remote console, general purpose)	[ ]	A6696B	OD1	
<i>Enter the following menu selections as sub-items to the server selected in 1.0 above.</i>					
2.0	Processor Modules (Required -- Max 2. Processor frequencies should not be mixed within a server. 540* MHz PA-RISC 8600 CPU with 1.5 MB integrated cache (*Note: PA-8600 550MHz CPU runs at 540MHz in L1000 & L2000 systems) 440 MHz PA-RISC 8500 CPU with 1.5 MB Integrated cache 360 MHz PA-RISC 8500 CPU with 1.5 MB Integrated cache	[ ]	A6146A	OD1	
		[ ]	A5522A	OD1	
		[ ]	A5521A	OD1	
2.1	Processor Support Modules (Required -- Max 1) Processor support module (one support module required for every two CPUs)	[ ]	A5796A	OD1	
3.0	Memory Modules (Min 1 -- Max 4) 256 MB high-density SyncDRAM memory module (uses 2 DIMM slots) 512 MB high-density SyncDRAM memory module (uses 2 DIMM slots) 1024 MB high-density SyncDRAM memory module (uses 2 DIMM slots) 2048 MB high-density SyncDRAM memory module (uses 2 DIMM slots)	[ ]	A5554A	OD1	
		[ ]	A5797A	OD1	
		[ ]	A5798A	OD1	
		[ ]	A6115A	OD1	
4.0	Internal Disk Drives (Optional -- Max 4) 18 GB HotPlug Ultra2 SCSI Half Height Disk 36 GB HotPlug Ultra2 SCSI Half Height Disk 73 GB HotPlug Ultra2 SCSI Half Height Disk	[ ]	A5803A	OD1	
		[ ]	A6110A	OD1	
		[ ]	A6091A	OD1	
5.0	Internal Removable Media (Optional -- Max 1) DVD-ROM 12GB DAT	[ ]	A5557A	OD1	
		[ ]	A5558A	OD1	
6.0	PCI HotPlug I/O cards (Optional -- Max 5,any combination)				
6.1	Mass Storage Adapters (*Note that a terminator is NOT included when ordering A5149A, A5150A, A5159A, or A5838A. Please order terminator(s) separately. See Chap. 4, Section "Cables & Accessories". RAID 4si - PCI 4 Port Ultra2 LVD/SE RAID Controller Factory Integrated PCI2x Single Port Fibre Channel Adapter Single port Ultra2 LVD/SE SCSI Interface card* Dual port Ultra2 LVD/SE SCSI Interface card* Dual port Fast/Wide/Differential SCSI-2 Interface card* Single port Fast/Wide/Differential SCSI-2 Interface card Single port Fast/Wide/Differential SCSI-2 Terminator (must if ordering A4800A) Dual Port 100Base-T and Dual Port Ultra2 LVD/SE SCSI Combo Card*	[ ]	A5856A		
		[ ]		OD1	
		[ ]	A5158A	OD1	
		[ ]	A5149A	OD1	
		[ ]	A5150A	OD1	
		[ ]	A5159A	OD1	
		[ ]	A4800A	OD1	
		[ ]		002	
		[ ]	A5838A	OD1	
6.2	Local Area Network (LAN) Adapters 1000 Base-T PCI Gigabit Ethernet LAN Adapter Single port 1000baseSX Ethernet LAN Adapter Single port 1000baseSX Ethernet LAN Manual 4 Port 100baseTX Ethernet LAN Adapter Single port 100baseTX Ethernet LAN Adapter Single port 10/100B-TX (AUI, BNC, RJ45) 100 Base-FX LAN Adapter FDDI Universal PCI Dual LAN Adapter Manual ATM 155 Mb/s LAN Adapter (MMF connector) ATM 155 Mb/s LAN Adapter (UTP5 connector) ATM 622 Mb/s LAN Adapter (MMF connector) 802.5 Token ring 4, 16, 100 Mb/s operation LAN Adapter	[ ]	A4929A	OD1	
		[ ]	A4926A	OD1	
		[ ]	J1643AA		
		[ ]	A5506B	OD1	
		[ ]	A5230A	OD1	
		[ ]	A3738A	OD1	
		[ ]	A5172A		
		[ ]	A3739B	OD1	
		[ ]	J3628AA		
		[ ]	A5513A	OD1	
		[ ]	A5515A	OD1	
		[ ]	A5483A	OD1	
		[ ]	A5783A	OD1	
6.3	Wide Area Network (WAN) Adapters 2 Port X.25/Frame Relay/SDLC Interface card (choose appropriate cables below) (Max 4) Two RS530 Interface Cables Two RS449 Interface Cables Two RS232 Interface Cables	[ ]	J3525A	OD1	
		[ ]		001	
		[ ]		AFQ	
		[ ]		1AT	



	Description		Product #	Opt #	Price
	Two V.35 Interface Cables	[ ]		1AU	
	Two X.21 Interface Cables	[ ]		AFR	
	X.25, SDLC Software & LTU (must if ordering J3525A)	[ ]	J2793B	OD1	
	X.25SDLC Tier 1 LTU (must if ordering J3525A)	[ ]		AHO	
	X.25, Frame Relay, SDLC Standard Performance Level Media and LTU (must if ordering J3525A)	[ ]		100	
	4 Port X.25/Frame Relay Interface card (choose appropriate cables below)	[ ]	J3526A	OD1	
	RS530 Interface Cable	[ ]		001	
	V.35 Interface Cable	[ ]		1AU	
	RS449 Interface Cable	[ ]		AFQ	
	X.21 Interface Cable	[ ]		AFR	
	RS232 Interface Cable	[ ]		1AT	
	Frame Relay LTU	[ ]	J3529A	OD1	
	Frame Relay Tier 1 LTU	[ ]		AHO	
	Praesidium Speed Card (subject to U.S. Encryption law. Can ship to U.S. and Canada)	[ ]	A5486A		
6.4	Serial Multiplexer Products				
	8 Port Multiplexer Card (must order port modules below. Max 4)	[ ]	A6748A	OD1	
	8 Port Multiplexer Card (must order port modules below) Add Manual Set	[ ]		001	
	64 Port Multiplexer Card (must order port modules below)	[ ]	A6749A	OD1	
	64 Port Multiplexer Card (must order port modules below) Add Manual Set	[ ]		001	
	16 Port RS232 RJ45 module	[ ]	J2484A		
	16 Port RS232 DB25 module	[ ]	J2485A		
	16 Port RS422 RJ45 module	[ ]	J2501A		
	RJ45 to HP-DB25 converters for Multiplexer	[ ]	J3830A		
	RJ45 to HP-RJ45 converters for Multiplexer	[ ]	J2488A		
6.5	Cluster Interconnect				
	Hyperfabric Interconnect Adapter Card	[ ]	A6092A	OD1	
	PCI Hyperfabric2 Interconnect Adapter Card	[ ]	A6386A	OD1	
	Release Notes	[ ]		AVN	
6.6	I/O and Network Documentation and Release Notes				
	Documentation and release notes for each I/O card in the server (Optional – Max 5)	[ ]	A5207A		
7.0	L-Class Graphics Solution (Optional Max 1 per system )				
	PCI 2D Graphics and 2port USB Adapters –Requires graphics monitor (D2812W or D2815W) and keyboard (A4983B)	[ ]	A6150B	OD1	
	HP VISUALIZE CAD Keyboard Kit w/3 Button Mouse (no scroll)	[ ]	A4983B		
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#	
	Substitute scroll mouse	[ ]		064	
	19" Color Monitor/ 18" viewable image	[ ]	D2812W		
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#	
	21" Color Monitor/ 19" viewable image	[ ]	D2815W		
	Localization (Refer to Corporate Price List for current localization options)	[ ]		#	
8.0	System Console -- Select with localization option (Optional -- Max 1)				
	Terminal console (keyboard included)	[ ]	C1099A	#	
	<i>Note: Each L2000 includes the Secure Web Console as a no charge ship along, and can be used instead of the terminal console. The Secure Web Console provides local or remote console functionality over a LAN on any PC with web browser functionality.</i>				
9.0	Standalone Deskside or Racked configuration (Optional -- Max 1)				
9.1	Standalone/Deskside (stand for L-Class)	[ ]	A5525A		
9.2	Racked Configuration -- Cabinets must be on the same order section for Factory integration.				
	Factory Racked using High Availability slider rails (recommended for serviceability)	[ ]	A5581A		
	Factory Racked using static rails	[ ]	A5580A		
10.0	<b>Carrier Grade</b> Products (all memory, CPUs, disc, and other peripherals are common with the L-Class)				
10.1	HP9000 L-1000 <b>Carrier Grade</b> Enterprise Server (Required – Max 1)	[ ]	Z7537A		
	Model L1000 SMP Base System (does not include memory or CPUs; rack ready – See Sec. 8)				
10.2	Racked <b>Carrier Grade</b> Configuration –Cabinets must be on same order section for factory integration	[ ]	Z7543A		
	Factory Racked using HA slider rails				
10.3	Redundant <b>Carrier Grade</b> System Hotswap DC Power Supply (Optional – Max 1)				
10.4	Additional Hotswap DC power supply for N+ 1 redundancy	[ ]	Z7538A	OD1	

## Chapter 2 L-Class Enterprise Servers



	Description		Product #	Opt #	Price
11.0	Power Protection				
11.1	Redundant System Hotswap Power Supply (Optional -- Max 2) Additional Hotswap power supply for N + 1 or 2 redundancy	[ ]	A5527A	OD1	
11.2	Power Protection -- Uninterruptible power supply (UPS) (Optional -- No Max) * See Chapter 4 Storage, Accessories, and Other Peripherals HP PowerTrust UPS for ordering instructions. See Rack Cabinet menu for racked UPS products.				
	PowerTrust II-LR 1.4kW/2.0kVA UPS 120V	[ ]	A1353A	*	
	PowerTrust II-LR 1.4kW/2.0kVA UPS 230V	[ ]	A1354A	*	
	PowerTrust II-LR 2.1kW/3.0kVA UPS 230V	[ ]	A1356A	*	
	PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS)	[ ]	A1357A	*	
	PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A	*	
	PowerTrust II-MR 4.0kW/4.5kVA UPS 230V Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.	[ ]	A6583A		
	PowerTrust II-M4.0kW Battery Pack note: 3 additional battery packs for a max of 4	[ ]	A6586A		
	PowerTrust II-MR 6.5kW/9kVA UPS 230V Includes; one battery pack set, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.	[ ]	A6584A		
	PowerTrust II-MR 6.5kW/8kW Battery Pack Set (2 batteries/set)	[ ]	A6587A		
	SNMP Card Communication Kit	[ ]	A6593A		
	Contact Closure Card Kit w/cable (direct connection w/native NT or remote status connection)	[ ]	A6597A		
10.0	<b>HP-UX Operating Environment License-to-Use (Required)</b> <i>Choose one of the following four Operating Environments (OE) License-to-Use. License covers all HP-UX versions 11i and previous. Then choose OE Type, Release Level, Language, Instant Ignition and Media</i>				
	HP-UX Operating Environment License-to-Use - Basic Environment -- does not include additional products	[ ]	B9088AA	AE5	
	HP-UX 11i Enterprise Operating Environment License-to-Use	[ ]	B9090AA	AE5	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use	[ ]	B9092AA	AE5	
	HP-UX 11i Technical Computing Operating Environment License-to-Use	[ ]	B6822AA	AE5	
10.1	<b>HP-UX Operating Environment Type, Release Level, Language, Media, and Instant Ignition (optional)</b> <i>Choose one of the following four media products Must specify one release level and one language. Choose Instant Ignition or a CD kit or both.</i>				
	<b>HP-UX Operating Environment (Basic environment - no additional products included)</b>	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition -- Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11.0	[ ]		UM4	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY <i>Note: The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, ASG or AUD)	[ ]		AU9	
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition -- Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		

	Description		Product #	Opt #	Price
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
13.0	System Integration Specification Plan <i>Note: Submittal form required to request System Integration Specification Plan (SISP); see configuration guide</i>	[ ]	A3142B		
	Basic SISP Configuration - includes custom root volume LVM, kernel parms, racking, and patch loading	[ ]		001	
	Enhanced SISP Configuration - includes option 001 contents plus extended LVM and mirrored disk configuration	[ ]		002	
14.0	Supplemental Systems Support				

To order support, refer to the Systems Support menu and select the desired supplemental System Support Option for each ordered product. For Systems Management section, please refer to Figure 2.1 for ServiceControl *essential*.

## HP 9000 L-Class Upgrades

	Description		Product #	Opt. #	List Price
1.0	<b>L-Class System Upgrades</b> Revision Date: 01, Nov. 1999 <i>To order support, select the desired supplemental System Support Option for each ordered product noted with an asterisk (*).</i>				
1.1	<b>L3000 Upgrade</b> <b>Model L1000 to L3000</b> Expansion Upgrade for upgrades from product A5576A. Note: The above product provides an upgrade from a L1000 to a L3000 system, which increases capability as follows: Maximum Processors increases from 2 to 4, Maximum Memory increases from 8GB to 16GB, Maximum I/O slots increase from 5 to 10, Provides increased system bandwidth, <u>PA-RISC 8600 550MHz CPUs are required for L3000 servers and must be ordered separately (A6146A)</u> <b>Model L2000 to L3000</b> Upgrade for upgrades from product A5191A Note: The above product provides an upgrade from a L2000 to a L3000 system, which increases capability as follows: Provides increased system bandwidth, PA-RISC 8600 550MHz CPUs are required for L3000 servers and must be ordered separately (A6146A)	[ ] [ ]	A6147A	001	
		[ ]		002	
1.2	<b>L2000 Upgrade</b> Model L1000 to L2000 Expansion Upgrade (Optional -- Max 1) Note: The above product provides an upgrade from a L1000 to a L2000 system which increases capability as follows: Maximum Processors increases from 2 to 4 Maximum Memory increases from 8GB to 16GB Maximum I/O slots increases from 5 to 10 Note: L2000 systems require two power supplies (an additional power supply is not included in upgrade and must be ordered separately.) Note: Section 1 provides system board upgrades only. For expanding a L1000 system into a L2000 system, order the appropriate processor, processor support module, memory and power supply below, refer to the L2000 ordering guide for PCI I/O cards	[ ]	A5829A		
1.3	<b>L1000 &amp; L2000 PA8600 540MHz* CPU Upgrade (Optional – Max 1)</b> PA8600 540MHz* CPU upgrade for L1000 systems Note: The above product includes one PA8600 540MHz CPU, additional CPUs must be ordered	[ ] [ ]	A6479A	001	



	Description		Product #	Opt. #	List Price
	separately				
	PA8600 540MHz* CPU Upgrade for L2000 systems	[ ]		002	
	Note: The above product includes one PA8600 540MHz* CPU, additional CPUs must be ordered separately				
	*Note: The PA8600 550MHz CPU runs at 540MHz in L1000 and L2000 systems				
	Terminator (A5559A) required if upgrading from a multiple processor L1000 or L2000 system to a single processor L1000 or L2000 PA8600 system. See section 2.1 below				
2.0	<b>Additional Processor Modules (Max 2 per L1000 System, Max 4 per L2000 and L3000 Systems)</b>				
	<b>Processor speeds cannot be mixed)</b>				
	360MHz PA-RISC 8500 CPU with 1.5MB Integrated Cache (L1000 & L2000 only)	[ ]	A5521A*		
	440MHz PA-RISC 8500 CPU with 1.5MB Integrated Cache (L1000 & L2000 only)	[ ]	A5522A*		
	550MHz PA-RISC 8600 CPU with 1.5MB Integrated Cache (L3000 only)	[ ]	A6146A*		
	(Note: One Processor Support Module is required for every two processors. See section 3.0)				
3.0	<b>Additional Processor Support Module (One Support Modules required for every two CPUs)</b>				
	Processor Support Module	[ ]	A5796A		
4.0	<b>iCOD Processor Upgrades (L2000 &amp; L3000 only)</b>				
	iCOD 360 MHz PA-RISC 8500 CPU – Right to Access	[ ]	A6136A	0D1	
	iCOD 360 MHz PA-RISC 8500 CPU – Enablement	[ ]	A6137A		
	iCOD 440 MHz PA-RISC 8500 CPU – Right to Access	[ ]	A6138A	0D1	
	iCOD 440 MHz PA-RISC 8500 CPU – Enablement	[ ]	A6139A		
	iCOD 550MHz PA-RISC 8600 CPU –Right to Access	[ ]	A6140A	0D1	
	iCOD 550 MHz PA-RISC 8600 CPU – Enablement	[ ]	A6141A		
5.0	<b>Additional Memory (Max 8 per L2000 System) (Different memory sizes may be utilized)</b>				
	256 MB high-density SyncDRAM memory module (uses 2 SIMM slots)	[ ]	A5554A		
	512 MB high-density SyncDRAM memory module (uses 2 SIMM slots)	[ ]	A5797A		
	1024 MB high-density SyncDRAM memory module (uses 2 SIMM slots)	[ ]	A5798A		
	2048 MB high-density SyncDRAM memory module (uses 2 SIMM slots)	[ ]	A6115A		
5.1	<b>Memory Carrier Board (L3000 Only Min 1 -- Max 2)</b>				
	Memory Extender (1 required for every 4 Memory Modules)	[ ]	A6155A		
6.0	<b>Power Protection (Max 3 per L2000 System.</b>				
	(Minimum of 2 power supplies are required on the L2000 System)				

## L-Class Return Credits

	Description		Product #	Opt #	Price
1.0	<b>L-class Processor Return Credits</b>				
1.1	Return Credit for L-class PA-8500 360 MHz Processor with 1.5 MB On-Chip Cache	[ ]	A5521AN	001	
	Note: Return credit requires ordering L-class PA-8500 440 MHz CPU (A5522A). Order one return credit for each 360MHz CPU being returned.				
1.2	Return Credit for L-class PA-8600 440 MHz Processor with 1.5 MB On-Chip Cache	[ ]	A5522AN	001	
	Note: Return credit requires ordering L-class PA-8600 550 MHz CPU (A6146A). Order one return credit for each 440 MHz CPU being returned.				
2.0	<b>L-class I/O Cards Return Credits</b>				
	Return Credit for Single Port PCI Fibre Channel A3740A Adapter	[ ]	A3740AN	001	

## HP 9000 K-Class Enterprise Servers: K380

### Features

<p><b>Base System Includes:</b></p> <ul style="list-style-type: none"> <li>• One PA-RISC processor             <ul style="list-style-type: none"> <li>– 240 MHz PA-8200 with 2x2 MB data/instruction cache for K380</li> </ul> </li> <li>• Integrated floating point coprocessor</li> <li>• Chassis integrated with 4 HP-PB and 1 HP-HSC (high speed system connect) I/O slots</li> <li>• 128, 256, and 512 MB high-density ECC memory</li> <li>• Standard I/O features             <ul style="list-style-type: none"> <li>– 802.3 LAN (with auto-sensing twisted pair and AUI connect)</li> <li>– Fast/Wide/Differential SCSI-2 channel</li> <li>– Single-ended SCSI-2 channel (for internal removable media devices only)</li> <li>– RS-232C ports for UPS control, console terminal, and external modem</li> <li>– Internal modem for remote support</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>– PS/2 keyboard and mouse ports</li> <li>– Parallel Centronics printer port</li> <li>• DVD-ROM drive</li> <li>• HP-UX 10.x or 11.x operating system with 2-user license</li> <li>• HP site planning and installation</li> <li>• Factory integration of memory, disk drives, removable media drives, and I/O cards</li> <li>• Owners Guide and General Usage documentation set</li> <li>• One-year on-site warranty</li> </ul> <p><b>Maximum SPU Capacities:</b></p> <ul style="list-style-type: none"> <li>• K380: six processors and 4096 MB ECC RAM</li> <li>• Four HP-PB I/O cards, two of which may be double-high</li> <li>• Three HP-HSC I/O cards</li> <li>• Four FWD SCSI-2 internal disks</li> <li>• Two removable media drives (one standard DVD-ROM, plus one optional drive)</li> </ul>	<p><b>Standard HP-UX Internet Features</b></p> <p><b>E-Mail</b></p> <ul style="list-style-type: none"> <li>• Mail, MailX, ELM</li> <li>• Sendmail, MIME, SMTP, ESMTMP</li> </ul> <p><b>Remote Access Services</b></p> <ul style="list-style-type: none"> <li>• Telnet, ftp, anonymous ftp server</li> </ul> <p><b>Internet Server Functions</b></p> <ul style="list-style-type: none"> <li>• Internet server (inetd)</li> <li>• Domain name server</li> <li>• Routing (OSPF, BIND, RIP, EGP, HELLO, gateD)</li> <li>• Network Time Protocol</li> </ul> <p><b>Client Configuration Services</b></p> <ul style="list-style-type: none"> <li>• Automatic configuration for printers, PCs, workstations, and X terminals (DHCP, Bootp, tftp, rbootp)</li> </ul> <p><b>Optional Web Services</b></p> <ul style="list-style-type: none"> <li>• Netscape Communication Server</li> <li>• Netscape Navigator</li> </ul>
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### Notes

- To connect single-ended SCSI-2 external peripherals, a single-ended SCSI-2 HP-PB I/O interface card (28655A) is required.

## HP 9000 K380 Enterprise Servers

	Description	Product #	Opt #	Price
◆	<i>Select the desired Supplemental System Support option for each ordered product noted with an asterisk (*).</i>			
1.0	<b>K-Class Enterprise Server (Required – Max 1)</b>			
	Model K380 Enterprise Server with 128 MB ECC memory	[ ] A4869B*		
1.1	<b>Additional Processor Modules (Optional – Max 3 for K2x0 and K360, Max 5 for K370)</b>			
	200 MHz PA-RISC 8200 CPU with 4 MB cache (For use on Model K370 only)	[ ] A3669A*	0D1	
	240 MHz PA-RISC 8200 CPU with 4 MB cache (For use on Model K380 only)	[ ] A4872A*	0D1	
1.2	<b>Replace 128 MB Base Memory (Optional for systems with 128 MB base memory – Max 1)</b>			
	Replace 128 MB base memory with 256 MB base memory	[ ] A3294A		
	Replace 128 MB base memory with 512 MB base memory	[ ] A3664A		
2.0	<b>Additional Memory Modules (Optional – Max 7)</b>			
	128 MB high-density ECC memory module	[ ] A3027A	0D1	
	256 MB high-density ECC memory module	[ ] A3483A	0D1	
	512 MB high-density ECC memory module	[ ] A3737A	0D1	
3.0	<b>Internal Disk Drives (Optional – Max 4)</b>			
	9 GB Fast/Wide Differential half-height SCSI-2 Disk	[ ] A3629A	0D1	
	18 GB Fast/Wide Differential half-height SCSI-2 Disk	[ ] A4909A	0D1	
	36 GB Fast/Wide Differential half-height SCSI-2 Disk	[ ] A5529A	0D1	

	Description		Product #	Opt #	Price
4.0	<b>CD-ROM Drive (Required – Max 1)</b>				
	DVD-ROM drive SE SCSI-2 (reads CD-ROM)	[ X ]	A5220A	ODS	
4.1	<b>Internal Removable Media Drives (Optional – Max 1)</b>				
	4 GB DDS DAT drive + data compression SE SCSI-2	[ ]	A3183A	ODZ	
	12 GB DDS-3 DAT Tape Drive + data compression SE SCSI-2	[ ]	A3542A*	OD1	
	DVD-ROM drive SCSI-2 (reads CD-ROM)	[ ]	A5220A	ODZ	
5.0	<b>System Console – Select with localization option. (Optional – Max 1)</b>				
	See Corporate Price List for current localization options				
	700/96 console – Amber screen	[ ]	C1064AX	#	
	700/96 console – Green screen	[ ]	C1064GX	#	
	700/96 console – White screen	[ ]	C1064WX	#	
5.1	<b>Graphics Monitors (Optional for K360, K370 – Max 4)</b>				
	19" Color Monitor/ 18" viewable image Pure Flat Trinitron screen. (1600 X 1200) resolution. Includes one Dsub video cable. (Not available in Southern Hemisphere—replace with D2847W)	[ ]	D8910W		
	North American Localization (All except Europe)			ABA	
	European Localization			ABB	
	21" Color Monitor - 19.8" viewable image Pure Flat Trinitron screen. (1600 X 1200) resolution. Includes one Dsub video cable.	[ ]	D2847W		
	North American Localization (All except Europe and Southern Hemisphere)			ABA	
	European Localization			ABB	
	Southern Hemisphere Localization			ABG	
5.2	<b>Graphics keyboard kit (Optional for systems with graphics cards, includes keyboard mouse, and documentation)</b>				
	PC style keyboard (Mini-Din connect)	[ ]	A4030G	#	
	Delete documentation set from keyboard kit (Required)	[ X ]		OBO	
5.3	<b>HP Secure Web Console</b>	[ ]	J3591A		
	Note: the Secure Web Console can be used instead of the 700/96 console. The Secure Web Console provides local or remote console functionality over a LAN on any PC with web browser functionality. Localization option automatically determined by ship-to address.				
6.0	<b>Additional I/O and Networking Cards</b>				
6.1	<b>HP-HSC (high-speed system connect) Cards (Optional – Max 1 plus any additional slots ordered from item 6.3)</b>				
	Fast/Wide/Differential SCSI-2 interface card	[ ]	A2969A	OD1	
	100Base-T 2 Port LAN Adapter card	[ ]	J3514A	001	
	100Base-T Adapter card factory installation	[ ]		OD1	
	100Base-T LAN Adapter manuals	[ ]	J3622AA		
	FDDI LAN Adapter card	[ ]	A3722A	001	
	FDDI LAN Adapter card factory integration	[ ]		OD1	
	FDDI LAN Adapter manuals	[ ]	J3703AA		
	Fibre Channel Tachlite adapter with switched fabric support	[ ]	A6685A		
	Fibre Channel 1063Mbps interface card for information storage	[ ]	A3404A	OD1	
	Fibre Channel 1063Mbps for information storage license and media (required for HP-UX 10.20 only)	[ ]	J3630BA*	OD1	
	ATM/622 Mbps HP-HSC Adapter OC12 multimode fibre interface (must order 001 & OD1)	[ ]	J2468A	001	
	ATM/622 Mbps HP-HSC Adapter factory integration	[ ]		OD1	
	ATM/155 Mbps HP-HSC Adapter OC3 multimode fibre interface (must order 001 and OD1)	[ ]	J2469A	001	
	ATM/155 Mbps HP-HSC Adapter UTP5 interface (must order 002 and OD1)	[ ]		002	
	ATM/155 Mbps HP-HSC Adapter OC3 single-mode fibre interface (must order 004 and OD1)	[ ]		004	
	ATM/155 Mbps HP-HSC Adapter factory integration	[ ]		OD1	
	Gigabit Ethernet LAN Adapter card (if ordering OD1, must also order 001)	[ ]	A4924A	001	
	Gigabit Ethernet LAN Adapter card factory integration	[ ]		OD1	
	Gigabit Ethernet LAN Adapter manuals	[ ]	J1643AA		
	HP VISUALIZE-EG 2D color graphics card (Max 1)	[ ]	A3519A	OD1	
	– Additional option for VISUALIZE-EG graphics; configure VISUALIZE card for system console support	[ ]		010	
	PKC Cryptography Accelerator Card (Export restricted to specific countries. See ESP's Praesidium Worldwide Ordering Instructions)	[ ]	A5434AA		

	Description		Product #	Opt #	Price
6.2	<b>HP-PB cards (Optional – Max 4, two of which may be double-high)</b>				
	Single-ended SCSI-2 interface card	[ ]	28655A	ODZ	
	Fast/Wide/Differential SCSI-2 interface card (double-high)	[ ]	28696A	ODZ	
	FDDI interface card (double-high, single-attach only, includes software and license)	[ ]	J2157B*	AU2	
	FDDI backup media and documentation (does not use slot, required if ordering J2157B)	[ ]	J2658BA		
	Hyperfabric Card (Max 2 per system)	[ ]	A4920A	OD1	
	802.3 ThinLAN/9000 interface card	[ ]	J2146A	ODM	
	100Base-T LAN Adapter	[ ]	A3495A	OD1	
	100Base-T Wiring Option; UTP Category 5 (100Base-TX)	[ ]		001	
	100Base-T LAN Adapter manuals	[ ]	J1627AA		
	802.5 Token Ring interface card for 4 MB/s or 16 MB/s operation	[ ]	J2166B	AU2	
	Token Ring backup media and documentation (does not use slot)	[ ]	J2250B		
	X.25 High-speed HP-PB card (HP-UX 10.x only)	[ ]	J2792A		
	X.25 Factory Integration	[ ]		OD1	
	X.25 RS-232 interface cable	[ ]		1AT	
	X.25 V.35 interface cable	[ ]		1AU	
	X.25 RS-449 interface cable	[ ]		AFQ	
	X.25 X.21/V11 interface cable	[ ]		AFR	
	X.25/9000 software	[ ]	J2793B		
	X.25/9000 software Instant Ignition	[ ]		OD1	
	X.25/9000 software system license for HP 9000 (tier 1)	[ ]		AH0	
	X.25/9000 software standard performance	[ ]		100	
	X.25/9000 software high-performance	[ ]		101	
	8-port HP ACC for HP9000 HP-PB Systems	[ ]	Z7200A		
	Tier 1 – K100, K200, K210, K220, K370	[ ]		AH0	
	Tier 2 –K400, K410, K420, K570	[ ]		AE5	
	2-port HP ACC for HP9000 HP-PB Systems	[ ]	Z7350A		
	HP ACC and X.25/9000 Software Bundle License (Includes HP X.25/9000, HP ACC X.25/9000 Link and HP ACC base software )				
	Processor License Option (Must order one)	[ ]	Z7476AA		
	Tier 1 – K100, K200, K210, K220, K370	[ ]		AH0	
	Tier 2 –K400, K410, K420, K570	[ ]		AE5	
	Tier 3 – T500, T520, T600, 890	[ ]		AEP	
	SNAPplusLink backup media and documentation (does not use slot)	[ ]	J2720BA	OD1	
	SNAPplusLink license for HP 9000 (tier 1)	[ ]		AH0	
6.3	<b>HP-HSC I/O Expansion Slot Upgrade (Optional)</b>				
	Add HP-HSC expansion with 2 HP-HSC slots (K370, K380 only – Max 1)	[ ]	A3696A	OD1	
	Add HP-HSC expansion with 2 HP-HSC slots (K360 only – Max 1)	[ ]	A3186A	OD1	
6.4	<b>HP-PB I/O Bus Converter and Card Cage (Optional)</b>				
	HP-PB I/O bus converter required to support A1828AZ (consumes two HSC slots – Max 1)	[ ]	A3699A	OD1	
	HP-PB I/O card cage (requires rack expansion cabinet, provides 14 single-high or 7 double-high slots)	[ ]	A1828AZ		
6.5	<b>HP-PB I/O Cards for Use in A1828AZ (Optional – Max 14 single-high or 7 double-high)</b>				
	Single-ended SCSI-2 interface card	[ ]	28655A	ODZ	
	Fast/Wide/Differential SCSI-2 interface card (double-high)	[ ]	28696A	ODZ	
	FDDI interface card (double-high, single-attach only, includes software and license)	[ ]	J2157B*	AU2	
	FDDI backup media and documentation (does not use slot, required if ordering J2157B)	[ ]	J2658BA		
	802.3 ThinLAN/9000 interface card	[ ]	J2146A	ODM	
	100Base-T LAN Adapter	[ ]	A3495A	OD2	
	100Base-T Wiring Option; UTP Category 5 (100Base-TX)	[ ]		001	
	100Base-T LAN Adapter manuals	[ ]	J1627AA		
	802.5 Token Ring interface card for 4 MB/s or 16 MB/s operation	[ ]	J2166B	AU2	
	X.25 High-speed HP-PB card (HP-UX 10.x only)	[ ]	J2792A		
	X.25 Factory Integration	[ ]		OD2	
	X.25 RS-232 interface cable	[ ]		1AT	
	X.25 V.35 interface cable	[ ]		1AU	
	X.25 RS-449 interface cable	[ ]		AFQ	
	X.25 X.21/V11 interface cable	[ ]		AFR	
	X.25/9000 Software	[ ]	J2793B		

	Description		Product #	Opt #	Price
	X.25/9000 software Instant Ignition	[ ]		OD2	
	X.25/9000 software system license for HP 9000 (tier 1)	[ ]		AHO	
	X.25/9000 software standard performance	[ ]		100	
	X.25/9000 software high-performance	[ ]		101	
	8-port HP ACC for HP9000 HP-PB Systems	[ ]	Z7200A		
	Tier 1 – K100, K200, K210, K220, K370	[ ]		AHO	
	Tier 2 –K400, K410, K420, K570	[ ]		AE5	
	2-port HP ACC for HP9000 HP-PB Systems	[ ]	Z7350A		
	HP ACC and X.25/9000 Software Bundle License (Includes HP X.25/9000, HP ACC X.25/9000 Link and HP ACC base software )				
	Processor License Option (Must order one)	[ ]	Z7476AA		
	Tier 1 – K100, K200, K210, K220, K370	[ ]		AHO	
	Tier 2 –K400, K410, K420, K570	[ ]		AE5	
	Tier 3 – T500, T520, T600, 890	[ ]		AEP	
	SNAplusLink backup media and documentation (does not use slot)	[ ]	J2720BA	OD2	
	SNAplusLink license for HP 9000 (tier 1)	[ ]		AHO	
6.6	<b>I/O and Network Documentation and Release Notes</b>				
	Documentation and release notes for each I/O card in the server (Optional – Max 5)		A5207A		
7.0	<b>Rack Installation (Optional – Max 1)</b>				
	<b>Must order with 2.0 meter (A4902A), 1.6 meter (A4901A), or 1.25 meter (A4900A) cabinet in same order section.</b>				
	Factory integration of server into a 2.0, 1.6, or 1.25 meter cabinet.	[ ]	A5173B		
	Quartz Gray color to match Rack System/E cabinets				
8.0	<b>Power Protection – Uninterruptible Power Supply (UPS) (Optional – Max 1)</b>				
	<b>See rack cabinet menu for racked UPS products. Note: PA-8000 &amp; PA-8200 SPUs and console require 1.7 (kW).</b>				
	* See Chapter 4 Peripherals and Accessories HP PowerTrust UPS for ordering instructions.				
	PowerTrust II-LR 2.1kW/3.0kVA UPS 230V	[ ]	A1356A	*	
	PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS)	[ ]	A1357A	*	
	PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A	*	
	PowerTrust II-MR 4.0kW/4.5kVA UPS 230V	[ ]	A6583A		
	Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-MR 4.0kW Battery Pack note: 3 additional battery packs for a max of 4	[ ]	A6586A		
	PowerTrust II-MR 6.5kW/9kVA UPS 230V	[ ]	A6584A		
	Includes; one battery pack set, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-MR 6.5kW/8kW Battery Pack Set (2 batteries/set)	[ ]	A6587A		
	SNMP Card Communication Kit	[ ]	A6593A		
	Contact Closure Card Kit w/cable (direct connection w/native NT or remote status connection)	[ ]	A6597A		
	<b>HP-UX Operating System</b>				
9.0	<b>HP-UX Operating Environment License-to-Use (Required)</b>				
	<b>Choose one of the following Operating Environments. License applies to HP-UX 11i or 11.0 or 10.20.</b>				
	HP-UX Operating Environment License-to-Use (use this for 10.2 or 11.0 or 11i Operating Environments) (Recommend 256 MB minimum memory for 11i)	[ ]	B9088AA	AHO	
	HP-UX 11i Enterprise Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9090AA	AHO	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9092AA	AHO	
	HP-UX 11i Technical Computing Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B6822AA	AHO	
9.1	HP-UX Operating Environment, Release Level, Media and Instant Ignition (Optional)				
	<i>Choose one of these four media products if Instant Ignition or CD Kits are needed. Instant Ignition and CD kit should match the license-to-use. Must specify one version and one language. Choose Instant Ignition or a CD kit or both.</i>				



	Description		Product #	Opt #	Price
9.2	<b>HP-UX Operating Environment</b>	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 10.20 (Use this option if you want 10.20)	[ ]		APZ	
	HP-UX Version 11.0 (Use this option if you want 11.0)	[ ]		UM4	
	64-bit version (if not selected, then 32 bit version of 11.0 will be provided)	[ ]		ASG	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY				
	<i>Note: The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, ASG or AUD)	[ ]		AU9	
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
9.3	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
9.4	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
9.5	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
10.0	<b>Supplemental System Support (Optional – Max 1 level per system)</b>				
	See Support Chapter 12 for Supplemental System Support options.				
11.0	<b>System Integration Specification Plan (Optional)</b>	[ ]	A3142B		
	Custom Root Volume LVM, Kernel parameters, and Racking. Patch loading	[ ]		001	
	Extended LVM and Mirrored Disk Configuration, plus option 001 contents	[ ]		002	

For Systems Management section, please refer to Figure 2.1 for ServiceControl enterprise.

## HP 9000 K580 Enterprise Servers

### Features

<p><b>Base System Includes:</b></p> <ul style="list-style-type: none"> <li>• One PA-RISC processor             <ul style="list-style-type: none"> <li>– 200 MHz PA-8200 with 2x2 MB data/instruction cache for K570</li> <li>– 240 MHz PA-8200 with 2x2 MB data/instruction cache for K580</li> </ul> </li> <li>• Integrated floating point coprocessor</li> <li>• Chassis integrated with 4 HP-PB and 1 HP-HSC (high-speed system connect) I/O slots</li> <li>• 128 MB, 256 MB, and 512 MB high-density ECC memory modules</li> <li>• Standard I/O features             <ul style="list-style-type: none"> <li>– 802.3 LAN (with auto-sensing twisted pair and AUI connect)</li> <li>– Fast/Wide/Differential SCSI-2 channel</li> <li>– Single-ended SCSI-2 channel (for internal removable media devices only)</li> <li>– RS-232C ports for UPS control, console terminal, and external modem</li> <li>– Internal modem for remote support</li> <li>– PS/2 keyboard and mouse ports</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>– Parallel Centronics printer port</li> <li>• DVD-ROM drive</li> <li>• HP-UX 10.x or 11.x operating system with 2-user license</li> <li>• HP site planning and installation</li> <li>• Factory integration of memory, disk drives, removable media drives, and I/O cards</li> <li>• Owners Guide and General Usage documentation set</li> <li>• One-year on-site warranty</li> <li>• For maximum capacities, refer to the Server Specification Table</li> </ul> <p><b>Maximum SPU Capacities:</b></p> <ul style="list-style-type: none"> <li>• Six PA-RISC PA-8200 processors for K5x0 with maximum I/O configurable to 4 HP-PB and 5 HP-HSC slots</li> <li>• 3,840 MB ECC RAM using HP-UX 10.x, 8192 MB ECC RAM using HP-UX 11.0</li> <li>• HP-UX 10.x maximum of 3,840 MB RAM; HP-UX 11.x maximum of 8,192 MB RAM</li> </ul>	<ul style="list-style-type: none"> <li>• K570 and K580 provide four HP-PB I/O cards, two of which may be double-high</li> <li>• Nine HP-HSC I/O cards for K5x0 with a maximum possible CPU configuration of four PA-8200 processors</li> <li>• Four FWD SCSI-2 internal disks</li> <li>• Two removable media drives (one standard DVD-ROM, plus one optional drive)</li> </ul>
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### Notes

- To connect single-ended SCSI-2 external peripherals, a single-ended SCSI-2 HP-PB I/O interface card is required.
- The Instant Ignition software eligibility list is located at the end of the Systems Chapter.
- For ThinLAN connection, order Transceiver 28641B.

## HP 9000 K580 Enterprise Servers

	Description		Product #	Opt #	Price
◆	<i>Select the desired Supplemental System Support option for each ordered product noted with an asterisk (*).</i>				
1.0	<b>K-Class Enterprise Server (Required – Max 1)</b>				
	Model K580 Enterprise Server with 256 MB high-density ECC memory	[ ]	A4837A*		
1.1	<b>Additional Processor Modules (Optional – Max 3 for K4x0, Max 5 for K5x0)</b>				
	240 MHz PA-RISC 8200 CPU with 4 MB cache (For use on Model K580 only)	[ ]	A4872A*	0D1	
1.2	<b>Replace 128 MB base memory (Optional – Max 1)</b>				
	Replace 128 MB base memory with 256 MB base memory (K460 only)	[ ]	A3294A		
	Replace 128 MB base memory with 512 MB base memory (K460 only)	[ ]	A3664A		
	Replace 256 MB base memory with 512 MB base memory (K5x0 only)	[ ]	A3747A		
2.0	<b>Additional Memory Modules (Optional – Max 7 or 15 w/ memory extender, see item 2.1.)</b>				
	128 MB high-density ECC memory module	[ ]	A3027A	0D1	
	256 MB high-density ECC memory module	[ ]	A3483A	0D1	
	512 MB high-density ECC memory module	[ ]	A3737A		
2.1	<b>Additional Memory Extender (Optional – Max 1)</b>				
	Memory carrier (increases total available capacity from 7 to 15 modules)	[ ]	A2992A	0D1	

	Description		Product #	Opt #	Price
3.0	<b>Internal Disk Drives (Optional – Max 4)</b>				
	9 GB Fast/Wide Differential half-height SCSI-2 Disk (uses 1 half-height slot)	[ ]	A3629A	OD1	
	18 GB Fast/Wide Differential half-height SCSI-2 Disk (uses 1 half-height slot)	[ ]	A4909A	OD1	
	36 GB Fast/Wide Differential half-height SCSI-2 Disk (uses 1 half-height slot)	[ ]	A5529A	OD1	
4.0	<b>CD-ROM Drive (Required – Max 1)</b>				
	DVD-ROM drive SE SCSI-2 (reads CD-ROM)	[ X ]	A5220A	ODS	
4.1	<b>Internal Removable Media Drives (Optional – Max1)</b>				
	4 GB DDS DAT drive + data compression SE SCSI-2	[ ]	A3183A	ODZ	
	12 GB DDS-3 DAT Tape Drive + data compression SE SCSI-2	[ ]	A3542A*	OD1	
	DVD-ROM drive SCSI-2 (reads CD-ROM)	[ ]	A5220A	OD1	
5.0	<b>System Console – Select with localization option. (Optional – Max 1)</b>				
	See Corporate Price List for current localization options				
	700/96 console – Amber screen	[ ]	C1064AX	#	
	700/96 console – Green screen	[ ]	C1064GX	#	
	700/96 console – White screen	[ ]	C1064WX	#	
5.1	Graphics Monitors (Optional for systems with graphics cards)				
	19" Color Monitor/ 18" viewable image Pure Flat Trinitron screen. (1600 X 1200) resolution. Includes one Dsub video cable. (Not available in Souther Hemisphere—replace with D2847W)	[ ]	D8910W		
	North American Localization (All except Europe)	[ ]		ABA	
	European Localization	[ ]		ABB	
	21" Color Monitor - 19.8" viewable image Pure Flat Trinitron screen. (1600 X 1200) resolution. Includes one Dsub video cable.	[ ]	D2847W		
	North American Localization (All except Europe and Southern Hemisphere)	[ ]		ABA	
	European Localization	[ ]		ABB	
	Southern Hemisphere Localization	[ ]		ABG	
5.2	Graphics Keyboard Kit (Optional for systems with graphics cards; includes keyboard, mouse, power cord and documentation)				
	PC style keyboard (Mini-Din connect)	[ ]	A4030G	#	
	Delete documentation set from keyboard kit (Required)	[ X ]		OB0	
5.3	HP Secure Web Console	[ ]	J3591A		
	Note: the Secure Web Console can be used instead of the 700/96 console. The Secure Web Console provides local or remote console functionality over a LAN on any PC with web browser functionality. Localization option automatically determined by ship-to address.				
6.0	<b>Additional I/O and Networking Cards</b>				
6.1	<b>HP-HSC (high-speed system connect) Cards (Optional – Max 1 plus any additional slots ordered from item 6.4.)</b>				
	Fast/Wide/Differential SCSI-2 interface card	[ ]	A2969A	OD1	
	FDDI LAN Adapter card	[ ]	A3722A	001	
	Factory Installation FDDI LAN Adapter card	[ ]		OD1	
	FDDI LAN Adapter manuals	[ ]	J3703AA		
	100Base-T 2 Port LAN Adapter card	[ ]	J3514A	001	
	Factory Installation 100Base-T 2 Port LAN Adapter card	[ ]		OD1	
	100Base-T LAN Adapter manuals	[ ]	J3622AA		
	Fibre Channel Tachlite adapter with switched fabric support	[ ]	A6685A		
	Fibre Channel 1063Mbps interface card for information storage	[ ]	A3404A	OD1	
	Fibre Channel 1063Mbps for information storage license and media	[ ]	J3630BA*	OD1	
	EPS 266 Mbps Fibre Channel adapter card (must select two)	[ ]	A3406A	OD1	
	EPS 266 Mbps Fibre Channel license	[ ]	J2635BA*	OD1	
	Hyperfabric Card (Max 2 per system)	[ ]	A4920A	OD1	
	ATM/155 Mbps HP-HSC Adapter OC3 multimode fibre interface (must order 001 and OD1)	[ ]	J2469A	001	
	ATM/155 Mbps HP-HSC Adapter UTP5 interface (must order 002 and OD1)	[ ]		002	
	ATM/155 Mbps HP-HSC Adapter OC3 single-mode fibre interface (must order 004 and OD1)	[ ]		004	
	ATM/155 Mbps HP-HSC Adapter factory integration	[ ]		OD1	
	Gigabit Ethernet LAN Adapter card (if ordering OD1, must also order 001)	[ ]	A4924A	001	
	Gigabit Ethernet LAN Adapter card factory integration	[ ]		OD1	
	HP VISUALIZE-EG 2D graphics interface card (for K460, K5x0, Max 4)	[ ]	A3519A	OD1	
	– Additional option for VISUALIZE-EG graphics; configure VISUALIZE card for system console support	[ ]		010	



	Description		Product #	Opt #	Price
	PKC Cryptography Accelerator Card (Export restricted to specific countries. See ESP's Praesidium Worldwide Ordering Instructions)	[ ]	A5434AA		
6.2	<b>HP-PB cards (Optional – Max 4, two of which may be double-high. If ordering item 6.3, Max 8, four of which may be double-high)</b>				
	Single-ended SCSI-2 interface card	[ ]	28655A	ODZ	
	Fast/Wide/Differential SCSI-2 interface card (double-high)	[ ]	28696A	ODZ	
	FDDI interface card (double-high, single-attach only)	[ ]	J2157B*	AU3	
	FDDI backup media and documentation (does not use slot)	[ ]	J2658BA		
	802.3 ThinLAN/9000 interface card	[ ]	J2146A	ODM	
	100Base-T LAN Adapter	[ ]	A3495A	OD1	
	100Base-T Wiring Option; UTP Category 5 (100Base-TX)	[ ]		001	
	100Base-T LAN Adapter manuals	[ ]	J1627AA		
	802.5 Token Ring interface card for 4 MB/s or 16 MB/s operation	[ ]	J2166B	AU3	
	Token Ring backup media and documentation (does not use slot)	[ ]	J2250B		
	SNAplusLink license	[ ]	J2720BA	AE5	
	SNAplusLink license factory integration	[ ]		OD1	
	X.25 HP-PB card (HP-UX 10.x only)	[ ]	J2792A		
	X.25 Factory Integration	[ ]		OD1	
	X.25 RS-232 interface cable	[ ]		1AT	
	X.25 V.35 interface cable	[ ]		1AU	
	X.25 RS-449 interface cable	[ ]		AFQ	
	X.25 X.21/V11 interface cable	[ ]		AFR	
	X.25/9000 software	[ ]	J2793B		
	X.25/9000 software Instant Ignition	[ ]		OD1	
	X.25 9000 software system license for HP 9000 (tier 2)	[ ]		AE5	
	8-port HP ACC for HP9000 HP-PB Systems	[ ]	Z7200A		
	Tier 1 – K100, K200, K210, K220, K370	[ ]		AH0	
	Tier 2 –K400, K410, K420, K570	[ ]		AE5	
	2-port HP ACC for HP9000 HP-PB Systems	[ ]	Z7350A		
	HP ACC and X.25/9000 Software Bundle License (Includes HP X.25/9000, HP ACC X.25/9000 Link and HP ACC base software )				
	Processor License Option (Must order one)	[ ]	Z7476AA		
	Tier 1 – K100, K200, K210, K220, K370	[ ]		AH0	
	Tier 2 – K400, K410, K420, K570	[ ]		AE5	
	Tier 3 – T500, T520, T600, 890	[ ]		AEP	
6.3	<b>HP-PB I/O Expansion Slot Upgrade (Optional for K460 – Max 1)</b>				
	Add 4 HP-PB slots	[ ]	A3185A	OD1	
6.4	<b>HP-HSC I/O Expansion Slot Upgrade (Optional – Max 1 for K460, Max 2 for K5x0)</b>				
	Note: K5x0 2nd channel precludes use of more than 4 CPUs.				
	Add HP-HSC expansion with 2 HP-HSC slots (K460 only)	[ ]	A3186A	OD1	
	Add HP-HSC expansion with 4 HP-HSC slots (K460 only)	[ ]	A2990A	OD1	
	Add HP-HSC expansion with 2 HP-HSC slots (K5x0 only)	[ ]	A3696A	OD1	
	Add HP-HSC expansion with 4 HP-HSC slots (K5x0 only)	[ ]	A3695A	OD1	
	Add second HP-HSC expansion with 4 HP-HSC slots (K5x0 only, available with a maximum of 4 processors)	[ ]	A3694A	OD1	
6.5	<b>HP-PB I/O Bus Converter and Card Cage (Optional – Max 2)</b>				
	HP-PB I/O bus converter required to support A1828AZ (consumes two HSC slots – Max 1)	[ ]	A3699A	OD1	
	HP-PB I/O card cage (requires rack expansion cabinet, provides 14 single-high or 7 double-high slots)	[ ]	A1828AZ		
6.6	<b>HP-PB I/O cards for use in A1828AZ (Optional – Max 14 single-high or 7 double-high cards per cage)</b>				
	Single-ended SCSI-2 interface card	[ ]	28655A	ODZ	
	Fast/Wide/Differential SCSI-2 interface card (double-high)	[ ]	28696A	ODZ	
	FDDI interface card (double-high, single-attach only)	[ ]	J2157B*	AU3	
	FDDI backup media and documentation (does not use slot)	[ ]	J2658BA		
	802.3 ThinLAN/9000 interface card	[ ]	J2146A	ODM	
	100Base-T LAN Adapter	[ ]	A3495A	OD2	
	100Base-T Wiring Option; UTP Category 5 (100Base-TX)	[ ]		001	
	100 Base-T LAN Adapter manuals	[ ]	J1627AA		

	Description		Product #	Opt #	Price
	802.5 Token Ring interface card for 4 MB/s or 16 MB/s operation	[ ]	J2166B	AU3	
	Token Ring backup media and documentation (does not use slot)	[ ]	J2250B		
	SNAplusLink license	[ ]	J2720BA	AE5	
	SNAplusLink license factory integration	[ ]		OD2	
	X.25 HP-PB card (HP-UX 10.x only)	[ ]	J2792A		
	X.25 Factory Integration	[ ]		OD2	
	X.25 RS-232 interface cable	[ ]		1AT	
	X.25 V.35 interface cable	[ ]		1AU	
	X.25 RS-449 interface cable	[ ]		AFQ	
	X.25 X.21/V11 interface cable	[ ]		AFR	
	X.25/9000 software	[ ]	J2793B		
	X.25/9000 software Instant Ignition	[ ]		OD2	
	X.25 9000 software system license for HP 9000 (tier 2)	[ ]		AE5	
	8-port HP ACC for HP9000 HP-PB Systems	[ ]	Z7200A		
	Tier 1 – K100, K200, K210, K220, K370	[ ]		AH0	
	Tier 2 –K400, K410, K420, K570	[ ]		AE5	
	2-port HP ACC for HP9000 HP-PB Systems	[ ]	Z7350A		
	HP ACC and X.25/9000 Software Bundle License (Includes HP X.25/9000, HP ACC X.25/9000 Link and HP ACC base software )				
	Processor License Option (Must order one)	[ ]	Z7476AA		
	Tier 1 – K100, K200, K210, K220, K370	[ ]		AH0	
	Tier 2 –K400, K410, K420, K570	[ ]		AE5	
	Tier 3 – T500, T520, T600, 890	[ ]		AEP	
6.7	<b>I/O and Network Documentation and Release Notes</b>				
	Documentation and release notes for each I/O card in the server (Optional – Max 5)		A5207A		
7.0	<b>Rack Installation (Optional – Max 1)</b>				
	<b>Must order with 2.0 meter (A4902A), 1.6 meter (A4901A), or 1.25 meter (A4900A) cabinet in same order section.</b>				
	Factory integration of server into a 2.0, 1.6, or 1.25 meter cabinet.	[ ]	A5173B		
	Quartz Gray color to match Rack System/E cabinets				
8.0	<b>Power Protection – Uninterruptible Power Supply (UPS) (Optional – Max 1)</b>				
	<b>See Rack cabinet menu for racked UPS products. Note: PA-8000 and PA-8200 SPUs and console require 1.7 kW.</b>				
	* See Chapter 4 Peripherals and Accessories HP PowerTrust UPS for ordering instructions.				
	PowerTrust II-LR 2.1kW/3.0kVA UPS 230V	[ ]	A1356A	*	
	PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS)	[ ]	A1357A	*	
	PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A	*	
	PowerTrust II-MR 4.0kW/4.5kVA UPS 230V	[ ]	A6583A		
	Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-MR 4.0kW Battery Pack note: 3 additional battery packs for a max of 4	[ ]	A6586A		
	PowerTrust II-MR 6.5kW/9kVA UPS 230V	[ ]	A6584A		
	Includes; one battery pack set, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-MR 6.5kW/8kW Battery Pack Set (2 batteries come in pair) note: 3 additional battery pack sets for a max of 4	[ ]	A6587A		
	SNMP Card Communication Kit	[ ]	A6593A		
	Contact Closure Card Kit w/cable (direct connection w/native NT or remote status connection)	[ ]	A6597A		
	<b>HP-UX Operating System</b>				
9.0	<b>HP-UX Operating System</b>				
	<b>HP-UX Operating Environment License-to-Use (Required)</b>				
	<b>Choose one of the following Operating Environments. License applies to HP-UX 11i or 11.0 or 10.20.</b>				
	HP-UX Operating Environment License-to-Use (use this for 10.2 or 11.0 or 11i Operating Environments) (Recommend 256 MB minimum memory for 11i)	[ ]	B9088AA	AH0	
	HP-UX 11i Enterprise Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9090AA	AH0	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B9092AA	AH0	



	Description		Product #	Opt #	Price
	HP-UX 11i Technical Computing Operating Environment License-to-Use (recommend 256 MB minimum memory)	[ ]	B6822AA	AH0	
9.1	<b>HP-UX Operating Environment, Release Level, Media and Instant Ignition (Optional)</b> <i>Choose one of these four media products if Instant Ignition or CD Kits are needed. Instant Ignition and CD kit should match the license-to-use. Must specify one version and one language. Choose Instant Ignition or a CD kit or both.</i>				
9.2	<b>HP-UX Operating Environment</b>	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 10.20 (Use this option if you want 10.20)	[ ]		APZ	
	HP-UX Version 11.0 (Use this option if you want 11.0)	[ ]		UM4	
	64-bit version (if not selected, then 32 bit version of 11.0 will be provided)	[ ]		ASG	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY <i>Note: The Journalled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, ASG or AUD)	[ ]		AU9	
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
9.3	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
9.4	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
9.5	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
10.0	<b>Supplemental System Support (Optional – Max 1 level per system)</b>				
	See Support Chapter 12 for Supplemental System Support options.				
11.0	<b>System Integration Specification Plan (Optional)</b>	[ ]	A3142B		
	Custom Root Volume LVM, Kernel parameters, and Racking. Patch loading	[ ]		001	
	Extended LVM and Mirrored Disk Configuration, plus option 001 contents	[ ]		002	

For Systems Management section, please refer to Figure 2.1 for ServiceControl enterprise.

## K-Class Upgrades

	Description		Product #	Opt #	Price
◆	Select the desired Supplemental Support Option for each ordered product noted with an asterisk (*).				
	<b>K100 Upgrades (from K100 to other K-Class Systems, not eligible for CPU Return Credit)</b>				
•	Upgrades K100 to K370 SMP system. Includes K370 system board, one 200 MHz PA-8200 CPU module with 4 MB cache, one memory carrier that has eight memory module slots (16 SIMMs), and power supply.	[ ]	A3680B*	850	



Description		Product #	Opt #	Price
<ul style="list-style-type: none"> <li>Upgrades K100 to K380 SMP system. Includes K380 system board, one 240 MHz PA-8200 CPU module with 4 MB cache, one memory carrier that has eight memory module slots (16 SIMMs), and power supply.</li> </ul>	[ ]	A4880B*	850	
<ul style="list-style-type: none"> <li>Upgrades K100 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU module with 4 MB cache, one memory carrier that has eight memory module slots (16 SIMMs), and a power supply.</li> </ul>	[ ]	A3687A*	850	
<ul style="list-style-type: none"> <li>Upgrades K100 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU module with 4 MB cache, one memory carrier that has eight memory module slots (16 SIMMs), and a power supply.</li> </ul>	[ ]	A4881A*	850	
<b>K200 Upgrades (from K200 to other K-Class systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K200 to K370 SMP system. Includes K370 system board, one 200 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: order for initial 100 MHz PA-7200 to PA-8200 upgrade only. Then order A3669A for additional CPUs.</li> </ul>	[ ]	A3680B*	851	
<ul style="list-style-type: none"> <li>Upgrades K200 to K380 SMP system. Includes K380 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: order for initial 100 MHz PA-7200 to PA-8200 upgrade only. Then order A4872A for additional CPUs.</li> </ul>	[ ]	A4880B*	851	
<ul style="list-style-type: none"> <li>Upgrades K200 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz CPU modules with 4 MB cache.</li> </ul>	[ ]	A3687A*	851	
<ul style="list-style-type: none"> <li>Upgrades K200 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz CPU modules with 4 MB cache.</li> </ul>	[ ]	A4881A*	851	
<b>K210 Upgrades (from K210 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K210 to K370 SMP system. Includes K370 system board, one 200 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A3680B*	852	
<ul style="list-style-type: none"> <li>Upgrades K210 to K380 SMP system. Includes K380 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A4880B*	852	
<ul style="list-style-type: none"> <li>Upgrades K210 to K570 system. Includes K570 system board and one 200 MHz PA-8200 CPU module with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A3687A*	852	
<ul style="list-style-type: none"> <li>Upgrades K210 to K580 system. Includes K580 system board and one 240 MHz PA-8200 CPU module with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A4881A*	852	
<b>K220 Upgrades (from K220 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K220 to K370 SMP system. Includes K370 system board, one 200 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A3680B*	856	
<ul style="list-style-type: none"> <li>Upgrades K220 to K380 SMP system. Includes K380 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A3669A for additional 240 MHz PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A4880B*	856	
<ul style="list-style-type: none"> <li>Upgrades K220 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A3669A for additional PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A3687A*	856	
<ul style="list-style-type: none"> <li>Upgrades K220 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A4881A*	856	
<b>K250 Upgrades (from K250 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K250 to K370 SMP system. Includes K370 system board, one 200 MHz PA-8200 CPU with 4 MB cache. Note: order A3669A for additional 200 MHz PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A3680B*	858	
<ul style="list-style-type: none"> <li>Upgrades K250 to K380 SMP system. Includes K380 system board, one 240 MHz PA-8200 CPU with 4 MB cache. Note: order A4872A for additional 240 MHz PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A4880B*	858	

Description		Product #	Opt #	Price
<ul style="list-style-type: none"> <li>Upgrades K250 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A3687A*	858	
<ul style="list-style-type: none"> <li>Upgrades K250 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A4881A*	858	
<b>K260 Upgrades (from K260 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K260 to K370 SMP system. Includes K370 system board, one 200 MHz PA-8200 CPU with 4 MB cache and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPU modules with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$16,900 after CPU Return Credit.</li> </ul>	[ ]	A3680B*	859	
<ul style="list-style-type: none"> <li>Upgrades K260 to K380 SMP system. Includes K380 system board, one 240 MHz PA-8200 CPU with 4 MB cache and power supply. Note: order A4872A for additional 240 MHz PA-8200 CPU modules with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$23,900 after CPU Return Credit.</li> </ul>	[ ]	A4880B*	859	
<ul style="list-style-type: none"> <li>Upgrades K260 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU module with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPUs with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$39,980 after CPU Return Credit.</li> </ul>	[ ]	A3687A*	859	
<ul style="list-style-type: none"> <li>Upgrades K260 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU module with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$56,980 after CPU Return Credit.</li> </ul>	[ ]	A4881A*	859	
<b>K360 Upgrades (from K360 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K360 to K370 SMP system. Includes K370 system board, one 200 MHz PA-8200 CPU with 4 MB cache. Note: Order A3669A for additional 200 MHz PA-8200 CPU modules with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$13,000 after CPU Return Credit.</li> </ul>	[ ]	A3680B	865	
<ul style="list-style-type: none"> <li>Upgrades K360 to K380 SMP system. Includes K380 system board, one 240 MHz PA-8200 CPU with 4 MB cache. Note: order A4872A for additional 240 MHz PA-8200 CPU modules with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$20,000 after CPU Return Credit.</li> </ul>	[ ]	A4880A*	865	
<ul style="list-style-type: none"> <li>Upgrades K360 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU module with 4 MB cache. Note: Order A3669A for additional 200 MHz PA-8200 CPUs with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$36,080 after CPU Return Credit.</li> </ul>	[ ]	A3687A*	865	
<ul style="list-style-type: none"> <li>Upgrades K360 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU module with 4 MB cache. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$43,080 after CPU Return Credit.</li> </ul>	[ ]	A4881A*	865	
<b>K370 Upgrades (from K370 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K370A to K380 SMP system. Includes K380 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: order A4872A for additional 240 MHz PA-8200 CPU modules with 4 MB cache. Eligible for CPU Return Credit (A3669AN) - net price of \$7,000 after CPU Return Credit.</li> </ul>	[ ]	A4880B*	862	
<ul style="list-style-type: none"> <li>Upgrades K370B to K380 SMP system. Includes K380 system board, one 240 MHz PA-8200 CPU with 4 MB cache. Note: order A4872A for additional 240 MHz PA-8200 CPU modules with 4 MB cache. Eligible for CPU Return Credit (A3669AN) - net price of \$10,000 after CPU Return Credit.</li> </ul>	[ ]	A4880B*	872	
<ul style="list-style-type: none"> <li>Upgrades K370A to K570 SMP system. Includes K570 system board. Note: Existing K370 200 MHz PA-8200 CPUs with 4 MB cache can be used in the K570. Order A3669A for additional 200 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A3687A*	862	
<ul style="list-style-type: none"> <li>Upgrades K370B to K570 SMP system. Includes PDC modification. Note: Existing K370 200 MHz PA-8200 CPUs with 4 MB cache can be used in the K570. Order A3669A for additional 200 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A3687A*	872	



Description		Product #	Opt #	Price
<ul style="list-style-type: none"> <li>Upgrades K370A to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache. Eligible for CPU Return Credit (A3669AN) - net price of \$30,080 after CPU Return Credit.</li> </ul>	[ ]	A4881A*	862	
<ul style="list-style-type: none"> <li>Upgrades K370B to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache. Eligible for CPU Return Credit (A3669AN) - net price of \$30,080 after CPU Return Credit.</li> </ul>	[ ]	A4881A*	872	
<b>K380 Upgrades (from K380 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K380A to K580 SMP system. Includes K580 system board. Note: Existing K380 240 MHz PA-8200 CPUs with 4 MB cache can be used in the K580. Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A4881A*	864	
<ul style="list-style-type: none"> <li>Upgrades K380B to K580 SMP system. Includes PDC modification. Note: Existing K380 240 MHz PA-8200 CPUs with 4 MB cache can be used in the K580. Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A4881A*	874	
<b>K400 Upgrades (from K400 to other K-Class Systems, not eligible for CPU Return Credit)</b>				
<ul style="list-style-type: none"> <li>Upgrade K400 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU module with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPU modules with 4 MB cache.</li> </ul>	[ ]	A3687A*	854	
<ul style="list-style-type: none"> <li>Upgrades K400 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A4881A*	854	
<b>K410 Upgrades (from K410 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K410 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU module with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPU modules with 4 MB cache. -</li> </ul>	[ ]	A3687A*	855	
<ul style="list-style-type: none"> <li>Upgrades K410 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A4881A*	855	
<b>K420 Upgrades (from K420 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K420 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU module with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A3687A	857	
<ul style="list-style-type: none"> <li>Upgrades K420 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A4881A*	857	
<b>K450 Upgrades (from K450 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K450 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU module with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A3687A*	860	
<ul style="list-style-type: none"> <li>Upgrades K450 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache , and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache.</li> </ul>	[ ]	A4881A*	860	
<b>K460 Upgrades (from K460 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K460 to K570 SMP system. Includes K570 system board, one 200 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A3669A for additional 200 MHz PA-8200 CPUs with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$16,080 after CPU Return Credit.</li> </ul>	[ ]	A3687A*	861	
<ul style="list-style-type: none"> <li>Upgrades K460 to K580 SMP system. Includes K580 system board, one 240 MHz PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache. Eligible for CPU Return Credit (A3261AN) - net price of \$23,080 after CPU Return Credit.</li> </ul>	[ ]	A4881A*	861	
<b>K570 Upgrades (from K570 to other K-Class Systems)</b>				
<ul style="list-style-type: none"> <li>Upgrades K570 to K580 SMP system. Includes K580 system board, one 240 MHz</li> </ul>	[ ]	A4881A*	863	



Description		Product #	Opt #	Price
PA-8200 CPU with 4 MB cache, and power supply. Note: Order A4872A for additional 240 MHz PA-8200 CPUs with 4 MB cache. Eligible for CPU Return Credit (A3669AN) - net price of \$7,000 after CPU Return Credit.				
<b>Additional Processor Modules for K-Class Servers</b>				
• 200 MHz PA-8200 CPU with 4 MB cache (for use on Models K370 and K570 only)	[ ]	A3669A*		
• 240 MHz PA-8200 CPU with 4 MB cache (for use on Models K380 and K580 only)	[ ]	A4872A*		
<b>K-Class CPU Rebates (Note: Requires separate order section)</b>				
• 200 MHz PA-8200 CPU 4 MB cache Return Credit (return required.) Customer will be billed full value for the upgrade product and credited this amount if the existing processor board is returned within 30 days.	[ ]	A3669AN	001	
<b>Memory Modules</b>				
• 128 MB high-density ECC memory module	[ ]	A3027A		
• 256 MB high-density ECC memory module	[ ]	A3483A		
• 512 MB high-density ECC memory module	[ ]	A3737A		
<b>Memory Carrier for K4XX &amp; K5XX Servers</b>				
One carrier is standard with the K4XX and K5XX systems and a maximum of two (2) carriers may be installed in the K4XX and K5XX. Each carrier holds eight memory modules.				
• Memory carrier (increases total capacity to 16 memory modules)	[ ]	A2992A		
<b>I/O Expansion for K4XX &amp; K3XX/K5XX only</b>				
• Upgrade from 4 to 8 HP-PB slots (K4XX only)	[ ]	A3185A		
• Add primary HP-HSC expansion with 2 HP-HSC slots (K360, K4XX only)	[ ]	A3186A		
• Add primary HP-HSC expansion with 4 HP-HSC (K4XX only)	[ ]	A2990A		
• Add primary HP-HSC expansion with 2 HP-HSC slots (K370, K380 & K5XX only)	[ ]	A3696A		
• Add primary HP-HSC expansion with 4 HP-HSC slots (K5XX only)	[ ]	A3695A		
• Add secondary HP-HSC expansion with 4 HP-HSC slots (K5XX only, available with a maximum of 4 CPUs)	[ ]	A3695A		
<b>K-Class Power Distribution Unit (PDU) Upgrade for Racked PA-8x00 K-Class Systems</b>				
• Power Distribution Unit upgrade necessary for racked K-Class systems upgrading to PA-8X00 models. Includes cable to connect K-Class system to rack Power Distribution Unit (PDU). Must order one output cable with PDU (see options). Must be ordered concurrent with system upgrade.	[ ]	A3693A		
PDU output cable - US 200-240 Volt (non-UPS configuration)	[ ]		ABA	
PDU output cable - Worldwide 200-240 Volt (non-UPS configuration)	[ ]		ABB	
PDU output cable - Worldwide 200-240 Volt (IEC 320-C20 plug)	[ ]		021	
PDU output cable - US 200-240 Volt for UPS (L6-20 plug)	[ ]		022	
PDU output cable - Worldwide 200-240 Volt for UPS in adjacent cabinet as power source (no plug)	[ ]		023	
<b>Supplemental System Support (Optional -- Max 1 level per system)</b>				
See Support Chapter for Supplemental System Support options				

## Return Credits

### K-Class Processors

Description		Product #	Opt #	Price
Note: No return credit available for K100, K200, K400, K210, K410, K220, K420, K250, K450, K360, K460				
• <b>Return Credit for PA-8200 200 MHz 2 MB Cache (K370 or K570) Processor</b>	[ ]	A3669AN	001	
Note: Return credit requires ordering K-Class upgrade. Order one return credit for each 200 MHz 4 MB cache CPU being returned.				

## HP 9000 N-Class Enterprise Servers

	Description		Product#	Opt#	Price
1.0	<b>HP 9000 N-Class Enterprise Server (Required -- Max 1)</b> Model N4000 SMP Base System (does not include memory or CPUs)	[ ]	A3639B		
	<i>Enter the following menu selections as sub-items to the server selected in 1.0 above.</i>				
2.0	<b>Processor Modules (Required -- Max 8)</b> 440 MHz PA-RISC 8500 CPU with 1.5 MB Integrated cache	[ ]	A5500A	OD1	
	550 MHz PA-RISC 8600 CPU with 1.5 MB Integrated cache	[ ]	A5866A	OD1	
2.1	<b>Processor Support Modules (Required -- Max 4)</b> Processor support module (one support module required for every two CPUs)	[ ]	A5168A	OD1	
2.2	<b>iCOD Processor Modules</b> iCOD 360 MHz PA-RISC 8500 CPU –Right to Access	[ ]	A6118A		
	Note: Installation Opt. OD1, PF1, B9073AA, B3920EA opt 001, and A3920E opt OD1 required				
	iCOD 440 MHz PA-RISC 8500 CPU –Right to Access	[ ]	A6120A	OD1	
	Note: Installation Opt. OD1, PF1, B9073AA, B3920EA opt 001, and A3920E opt OD1 required				
	iCOD 550 MHz PA-RISC 8600 CPU –Right to Access	[ ]	A6122A	OD1	
	Note: Installation Opt. OD1, PF1, B9073AA, B3920EA opt 001, and A3920E opt OD1 required				
	iCOD CPU Agent License	[ ]	B9073AA	OD1	
3.0	<b>Memory Modules (Min 1 -- Max 16; one additional carrier required per 4 modules, see item 3.1)</b> 512 MB high-density SyncDRAM memory module (uses 2 SIMM slots)	[ ]	A3763A	OD1	
	1024 MB high-density SyncDRAM memory module (uses 2 SIMM slots)	[ ]	A4923A	OD1	
	2048 MB high-density SyncDRAM memory module (uses 2 SIMM slots)	[ ]	A5864A	OD1	
3.1	<b>Memory Carrier Board (Min 1 -- Max 4)</b> Memory carrier board (provides capacity for 4 memory modules)	[ ]	A4882A	OD1	
4.0	<b>Internal Disk Drives (Optional -- Max 2)</b> 9 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A5505A	OD1	
	18 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A5531A	OD1	
	36 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A6089A	OD1	
	<b>73 GB Hotplug Ultra SCSI Low Profile Disk</b>	[ ]	A6727A	OD1	
5.0	<b>External Media Drives (Optional)</b> <i>To order external media devices, refer to the Peripherals and Accessories section of the ordering guide</i>				
6.0	<b>PCI HotPlug I/O cards (Optional -- Max 12, any combination)</b>				
6.1	<b>Mass Storage Adapters</b> Single port PCI 2X Fibre Channel Adapter	[ ]	A5158A	OD1	
	Single port Ultra-2 SCSI Interface card	[ ]	A5149A	OD1	
	Dual port Ultra-2 SCSI Interface card	[ ]	A5150A	OD1	
	Dual port 100baseTX/dual port Ultra2 SCSI Combo Interface Card	[ ]	A5838A	OD1	
	Dual port Fast/Wide/Differential SCSI-2 Interface card	[ ]	A5159A	OD1	
	Single port Fast/Wide/Differential SCSI-2 Interface card	[ ]	A4800A	OD1	
	PCI 4-channel Ultra2 SCSI RAID Controller	[ ]	A5856A	OD1	
6.2	<b>Local Area Network (LAN) Adapters</b> Single port 1000baseSX Ethernet LAN Adapter	[ ]	A4926A	OD1	
	Single port 1000baseSX Ethernet LAN Adapter Manuals	[ ]	J1643AA		
	4 Port 100baseTX Ethernet LAN Adapter	[ ]	A5506B	OD1	
	Single port 100baseTX Ethernet LAN Adapter	[ ]	A5230A	OD1	
	FDDI Dual Attach Station LAN Adapter	[ ]	A3739A	OD1	
	FDDI Dual Attach Station LAN Adapter Server option (req'd for A3739A)	[ ]		001	
	FDDI Dual Attach Station LAN Adapter Manuals	[ ]	J3628AA		
	ATM 622 Mbps MMF Adapter	[ ]	A5483A	OD1	
	ATM 155 Mbps MMF Adapter	[ ]	A5513A	OD1	
	ATM 155Mbps UTP5 Adapter	[ ]	A5515A	OD1	
	802.5 Token ring 4, 16, 100 Mb/s operation LAN Adapter	[ ]	A5783A	OD1	
	802.5 Token ring 4, 16, 100 Mb/s operation LAN Adapter Manuals	[ ]	J4242AA		
6.3	<b>Wide Area Network (WAN) Adapters</b> 2 Port X.25/Frame Relay Interface card (choose appropriate cables below)	[ ]	J3525A	OD1	



	Description		Product#	Opt#	Price
	2 Port X.25/Frame Relay Interface card Tier 2 LTU	[ ]		AE5	
	4 Port X.25/Frame Relay Interface card (choose appropriate cables below)	[ ]	J3526A	OD1	
	4 Port X.25/Frame Relay Interface card SW	[ ]	J3529A	OD1	
	4 Port X.25/Frame Relay Interface card Tier 2 LTU	[ ]		AE5	
	- 2 RS-232-C cables	[ ]		1AT	
	- 2 V.35 cables	[ ]		1AU	
	- 2 X.21/V11 cables	[ ]		AFR	
	- 2 RS-449 cables	[ ]		AFQ	
	- 2 RS-530 cables	[ ]		001	
6.4	<b>Serial Multiplexer Products</b>				
	PCI 8 Port Serial Mux Card)	[ ]	J6748A	OD1	
	PCI 64 Port Serial MuxCard (must order port modules below)	[ ]	J6749A	OD1	
	16 Port RS232 RJ45 module	[ ]	J2484A		
	16 Port RS232 DB25 module	[ ]	J2485A		
	16 Port RS422 RJ45 module	[ ]	J2501A		
	RJ45 to HP-RJ45 converters for Multiplexer	[ ]	J2488A		
	RJ45 to HP-DB25 converters for Multiplexer	[ ]	J3830A		
6.5	<b>Cluster Interconnect</b>				
	PCI Hyperfabric2 Fiber Adapter Card	[ ]	A6386A	OD1	
6.6	<b>I/O and Network Documentation and Release Notes</b>				
	Documentation and release notes for each I/O card in the server (Optional – Max 5)	[ ]	A5207A		
7.0	<b>System Console -- Select with localization option (Optional -- Max 1)</b>				
	Terminal Console (Keyboard and mouse included)	[ ]	C1099A	#_____	
	<i>Note: Each N4000 system includes the Secure Web Console as a no charge ship along which can be used instead of the 700/96 console. The Secure Web Console provides local or remote functionality over a LAN on any PC with web browser functionality.</i>				
8.0	<b>Rack Installation Kit (Required, order with OD1 option for factory integration)</b>				
	N4000 rack mount kit for installation into HP Rack System/E cabinets	[ ]	A5170A	OD1	
	<i>Note: Each N-Class ordered must be racked. In addition to the rack installation kit, you must also order the following for each respective cabinet size:</i>				
	System/E Cabinet		A4900A	A4901A	A4902A
	Depth Extension Kit		A5541A(Z)	A5542A(Z)	A5543A(Z)
	Rear Door (req'd)		A5211AZ	A5212AZ	A5213AZ
	<i>The Rack System/E cabinet can be omitted if racking an N-Class server into an existing Rack System/E cabinet.</i>				
9.0	<b>Power Protection</b>				
9.1	<b>Redundant System Hotswap Power Supply (Optional -- Max 1)</b>				
	Additional Hotswap power supply for N+1 redundancy	[ ]	A5171A	OD1	
9.2	<b>Uninterruptible power supply (UPS) (Optional – No Max)</b>				
	See Chapter 4 Storage, Accessories, and Other Peripherals HP PowerTrust UPS for ordering instructions.				
	See rack cabinet menu for racked UPS products.				
	PowerTrust II-MR 4.0kW/4.5kVA UPS 230V	[ ]	A6583A		
	Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-M4.0kW Battery Pack	[ ]	A6586A		
	PowerTrust II-MR 6.5kW/9kVA UPS 230V	[ ]	A6584A		
	Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.				
	PowerTrust II-MR 6.5kW/8kW Battery Pack Set (2 batteries/set)	[ ]	A6587A		
	SNMP Card Communication Kit	[ ]	A6593A		
	Contact Closure Card Kit w/cable (direct connection w/native NT or remote status connection)	[ ]	A6597A		
10.0	<b>HP-UX Operating Environment License-to-Use (Required)</b>				
	<i>Choose one of the following four Operating Environments (OE) License-to-Use. License covers all HP-UX versions 11i and previous. Then choose OE Type, Release Level, Language, Instant Ignition and Media</i>				
	HP-UX Operating Environment License-to-Use - Basic Environment -- does not include additional products	[ ]	B9088AA	AE5	



	Description		Product#	Opt#	Price
	HP-UX 11i Enterprise Operating Environment License-to-Use	[ ]	B9090AA	AE5	
	HP-UX 11i Mission-Critical Operating Environment License-to-Use	[ ]	B9092AA	AE5	
	HP-UX 11i Technical Computing Operating Environment License-to-Use	[ ]	B6822AA	AE5	
10.1	HP-UX Operating Environment Type, Release Level, Language, Media, and Instant Ignition (optional) <i>Choose one of the following four media products</i> <i>Must specify one release level and one language. Choose Instant Ignition or a CD kit or both.</i>				
	HP-UX Operating Environment (Basic environment - no additional products included)	[ ]	B3920EA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11.0	[ ]		UM4	
	HP-UX Version 11i	[ ]		UM9	
	The following configuration can be ordered for HP-UX 11.0 ONLY <i>Note: The Journaled File System is the default if no alternative option is selected below.</i>				
	NFS Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU9, ASG or AUD)	[ ]		AU8	
	Compute Server Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, ASG or AUD)	[ ]		AU9	
	HFS Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or AUD)	[ ]		ASG	
	Internet Configuration Instant Ignition (optional, cannot be ordered with option AUA, AU8, AU9 or ASG)	[ ]		AUD	
	HP-UX Enterprise Operating Environment	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
	HP-UX Mission-Critical Operating Environment	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
	HP-UX Technical Computing Operating Environment	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Media Kit	[ ]		AAF	
	Instant Ignition – Pre-loaded HP-UX Operating Environment	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
11.0	<b>Supplemental Systems Support</b> <i>To order support, refer to the Systems Support section of the ordering guide and select the desired supplemental System Support option for each ordered product.</i>				
12.0	<b>System Integration Specification Plan (Optional)</b> <i>Note: Submittal form required to request System Integration Specification Plan (SISP); see configuration guide.</i>	[ ]	A3142B		
	Basic SISP Configuration - includes custom root volume LVM, kernel parms, racking, and patch loading	[ ]		001	
	Enhanced SISP Configuration - includes option 001 contents plus extended LVM and mirrored disk configuration	[ ]		002	

For Systems Management section, please refer to Figure 2.1 for ServiceControl enterprise.

## N-Class Upgrades

	Description		Product #	Opt #	Price
1.0	<b>N-Class Upgrades</b>				
	550MHz PA-8600 A3639B Upgrade Kit – For A3639A ONLY Upgrades a N4000 A3639A to a 550MHz PA-8600 N4000 A3639B. Includes one 550MHz PA-8600 CPU (A5866A), and a system board. Eligible for 360MHz CPU Return Credit (A4883AN), or 440MHz Return Credit (A5500AN).	[ ]	A6105A	001	
2.0	<b>iCOD Processor Upgrades</b>				
	iCOD 360 MHz PA-RISC CPU with 1.5 MB Integrated Cache Enabling Fee Note: Order this product to obtain the license to activate the iCOD CPU in the system	[ ]	A6119A	001	
	iCOD 440 MHz PA-RISC CPU with 1.5 MB Integrated Cache Enabling Fee Note: Order this product to obtain the license to activate the iCOD CPU in the system	[ ]	A6121A	001	
	iCOD 550 MHz PA-RISC CPU with 1.5 MB Integrated Cache Enabling Fee Note: Order this product to obtain the license to activate the iCOD CPU in the system	[ ]	A6123A	001	

## N-Class Return Credits

	Description		Product #	Opt #	Price
1.0	<b>N4000 Processor Return Credits</b>				
	Return Credit for N4000 PA-8500 360 MHz Processor with 1.5 MB On-Chip Cache Note: Return credit requires ordering N4000 440MHz (A5500A) or 550MHz (A5866A) CPU. Order one return credit for each 360MHz CPU being returned.	[ ]	A4883AN	001	
	Return Credit for N4000 PA-8500 440 MHz Processor with 1.5 MB On-Chip Cache Note: Return credit requires ordering N4000 550MHz (A5866A) CPU. Order one return credit for each 440MHz CPU being returned.	[ ]	A5500AN	001	
2.0	<b>N4000 I/O Cards Return Credits</b>				
	Return Credit for Single Port PCI Fibre Channel A3740A Adapter	[ ]	A3740AN	001	
3.0	<b>N4000 iCOD Return Credits</b>				
	Return Credit for N4000 PA-8500 360 MHz iCOD Processor	[ ]	A6118AN	001	
	Return Credit for N4000 PA-8500 440 MHz iCOD Processor	[ ]	A6120AN	001	
	Return Credit for N4000 PA-8600 550 MHz iCOD Processor	[ ]	A6122AN	001	

## hp server rp8400

	Description		Product #	Opt #	Price
1.0	hp server rp8400 Enterprise Server (Max 1) rp8400 SMP Base System (does not include cell boards, memory, core I/O, storage, or CPUs) Note: Includes system board and two power supplies for N+1 functionality <b>Enter the following menu selections as sub-items to the server selected in 1.0 above.</b> <b>Select the desired supplemental System Support Option for each ordered product noted with an asterisk(*). "Min" is minimum per system, "Max" is maximum per system, if the system is partitioned or not "Min partition" is minimum if the server is partitioned, "Max partition" is maximum if the server is partitioned</b>	[ ]	A6093A		
1.1	<b>Factory Configured Hardware Partitions (Optional)</b> Factory configured rp8400 server w/symmetrical hardware partitions (must order even number of each product#: Cell boards, Memory, Disks, I/O cards, Removable Media)	[ ]	A6401A		
2.0	<b>Processor Modules (Required -- Min 1 pack, Max 2 packs per cell, Min 2 packs for &gt; 2 cells)</b> 750 MHz PA-RISC 8700 CPU with 2.25 MB Integrated cache -Pack of 2 CPUs 650 MHz PA-RISC 8700 CPU with 2.25 MB Integrated cache -Pack of 2 CPUs	[ ] [ ]	A6444A A6443A	OD1 OD1	
2.1	<b>Processor iCOD and Utility Pricing</b> iCOD 750 MHz CPU - pack of 2 CPUs - Installation (Options OD1, PF1, B9073AA, and Instant Ignition B3920EA opt OD1 required) iCOD 650 MHz CPU - pack of 2 CPUs - Installation (Options OD1, PF1, B9073AA, and Instant Ignition B3920EA opt OD1 required) iCOD CPU Agent License On-site iCOD S/W installation (for Disk-less orders)	[ ] [ ] [ ] [ ]	A6718A A6104A B9073AA H9908A	OD1 OD1 OD1	
2.2	<b>Utility Pricing</b> Utility pricing agent - If ordered, a 16-way 750MHz CPU/16 GB memory server will be shipped	[ ]	T1322AA	OD1	
3.0	<b>Processor/Memory Cell board (Required -- Min 1, Min partition 2, Max 4)</b> Processor/Memory Cell board (Order one power supply for every Processor/Memory cell board-required) Note: A cell board supports up to 4 CPUs (Two CPU dual packs), and up to 4 memory quad modules (max 16GB)	[ ]	A6094A	OD1	
4.0	<b>Core I/O (Required -- Min 1, Min partition 2, Max 2)</b> Core I/O Note: Core I/O provides web console connection, Ultra2SCSI port, 3 RS-232 ports, 1 GB/s LAN port	[ ]	A6096A	OD1	
5.0	<b>Memory Quad Modules (Required -- Min 1 per cell board, Max 4 per cell board, Max 16 per system)</b> 2GB high-density SyncDRAM memory module (uses 4 SIMM slots) 4GB high-density SyncDRAM memory module (uses 4 SIMM slots)	[ ] [ ]	A6097A A6098A	OD1 OD1	
6.0	<b>Internal Disk Drives (Optional -- Max 4, 2nd Core I/O card and Cell Board are required to enable &gt; 2 internal disks)</b> 18 GB HotPlug Ultra SCSI Low Profile Disk(10k rpm) 36 GB HotPlug Ultra SCSI Low Profile Disk (10k rpm)	[ ] [ ]	A6723A A6724A	OD1 OD1	
7.0	<b>Removable Internal Media Drives (Optional -- Max 2, 2nd Core I/O card and Cell Board are required to enable &gt; 1 Removable Media drive)</b> DVD Drive DAT 40GB DDS4 Drive	[ ] [ ]	A6180A A6182A	OD1 OD1	
8.0	<b>PCI HotPlug I/O cards (Optional -- Max 16, any combination, 2nd Cell board is required to enable &gt; 8 I/O cards)</b>				
8.1	<b>Mass Storage Adapters</b> Single Port PCI 2X Fibre Channel Adapter Single Port Ultra-2 SCSI Interface Card Dual Port Ultra-2 SCSI Interface Card RAID 4Si, PCI 4 port Ultra-2 SCSI RAID Interface Card Dual Port Fast/Wide/Differential SCSI-2 Interface Card Single Port Fast/Wide/Differential SCSI-2 Interface Card	[ ] [ ] [ ] [ ] [ ] [ ]	A5158A A5149A A5150A A5856A A5159A A4800A	OD1 OD1 OD1 OD1 OD1	
8.2	<b>Local Area Network (LAN) Adapters</b> Single Port 1000baseSX Ethernet LAN Adapter	[ ]	A4926A*	OD1	

	Description		Product #	Opt #	Price
	Single Port 1000BaseT PCI Gigabit Ethernet LAN Adapter	[ ]	A4929A*	0D1	
	4 Port 100baseTX Ethernet LAN Adapter	[ ]	A5506B	0D1	
	Single Port 100baseTX Ethernet LAN Adapter	[ ]	A5230A	0D1	
	Single Port 100baseTX Ethernet LAN Adapter	[ ]	A3738A	0D1	
	FDDI Dual Attach Station LAN Adapter	[ ]	A3739B*	0D1	
	FDDI Dual Attach Station LAN Adapter - SC to MIC Cable Adapters	[ ]		001	
	ATM 622 Mbps MMF Adapter	[ ]	A5483A	0D1	
	ATM 155 Mbps MMF Adapter	[ ]	A5513A	0D1	
	ATM 155 Mbps UTP5 Adapter	[ ]	A5515A	0D1	
	802.5 Token Ring 4, 16, 100 Mb/s Operation LAN Adapter	[ ]	A5783A	0D1	
8.3	<b>I/O Combination Adapters (Mass Storage/LAN)</b>				
	2 Port Ultra-2 SCSI / 2 Port 100BaseT Combo Card	[ ]	A5838A	0D1	
8.4	<b>Wide Area Network (WAN) Adapters</b>				
	2 Port X.25/Frame Relay Adapter Card (choose appropriate cables below)	[ ]	J3525A*	0D1	
	4 Port X.25/Frame Relay Adapter Card (choose appropriate cables below)	[ ]	J3526A*	0D1	
	- 2 RS-232-C cables	[ ]		1AT	
	- 2 V.35 cables	[ ]		1AU	
	- 2 X.21/V11 cables	[ ]		AFR	
	- 2 RS-449 cables	[ ]		AFQ	
	- 2 RS-530 cables	[ ]		001	
	<i>Note: One of the following software products must be ordered with an X.25/Frame Relay Adapter Card.</i>				
	X.25 High Performance Software	[ ]	J2793B*	AE5	
	Instant Ignition	[ ]		0D1	
	Frame Relay LTU	[ ]	J3529A*	AE5	
	Instant Ignition	[ ]		0D1	
8.5	<b>Serial Multiplexer Products</b>				
	64 Port Multiplexer Card (must order port modules below)	[ ]	A6749A	0D1	
	Port Module Accessory Kit (Required if you have ordered the A6749A)			001	
	8 Port Multiplexer Card	[ ]	A6748A	0D1	
	Replace 4 ft. cable with 12 ft. cable			001	
	16 Port RS232 RJ45 module	[ ]	J2484A		
	16 Port RS232 DB25 module	[ ]	J2485A		
	16 Port RS422 RJ45 module	[ ]	J2501A		
	RJ45 to HP-RJ45 Converters for Multiplexer	[ ]	J2488A		
	RJ45 to HP-DB25 Converters for Multiplexer	[ ]	J3830A		
8.6	<b>Cluster Interconnect (Max 8)</b>				
	Hyperfabric 4X Interconnect Adapter Card	[ ]	A6092A*	0D1	
	Hyperfabric 2 Interconnect Adapter Card	[ ]	A6386A*	0D1	
8.7	<b>Network and I/O documentation (Optional -- Max 5 per server)</b>				
	Documentation for each of I/O and network cards included into the order	[ ]	A5207A		
8.8	<b>Encryption</b>				
	hp SpeedCard	[ ]	A5486A		
9.0	<b>External Peripherals &amp; Media Drives for HP-UX Users (Optional)</b>				
	Refer to the Storage, Accessories, and Other Peripheral chapter of the Ordering Guide for menus.				
10.0	<b>System Console -- Select with localization option (Optional -- Max 1)</b>				
	Terminal Console (keyboard and mouse included)	[ ]	C1099A	#__	
	<i>Note: Each rp8400 Core I/O includes an embedded Secure Web Console which can be used instead of the console.</i>				
	<i>The Secure Web Console provides local or remote console functionality over a LAN on any PC with web browser functionality.</i>				
11.0	<b>Pedestal, Factory and Field Rack Integration Kit for Enterprise Server (Required -- Max 1 per server)</b>				
	<b>4 Power cords included with each server (2 cords minimum, plus 2 cords for redundancy)</b>				
11.1	<b>Field Rack Kit</b> Needed for field integration into 19" wide HP Rack System/E or most 3rd party racks at customer location.	[ ]	J1528A		
	Note: Must order one Power Cord Option.				
	4.5m, North America power cord, plug style: L6-20	[ ]		AW4	

	Description		Product #	Opt #	Price
	4.5m, International power cord, plug style: unterminated	[ ]		AW5	
	4.5m, European power cord, plug style: IEC309/16A	[ ]		AWU	
	4.5m, European power cord, plug style: CEE 7/7	[ ]		AWT	
	4.5m, China power cord, plug style: GB1002	[ ]		AKM	
	4.5m, Server to UPS power cord, plug style: L6-30P	[ ]		A5F	
	4.5m, Server to UPS power cord, plug style: unterminated	[ ]		A5G	
	4.5m, Server to UPS power cord, plug style: C-20	[ ]		A5H	
	2.0m, Jumper/Universal UPS-PDU power cord, plug style: C-20	[ ]		A5N	
	Pwr Crd C19/ISI-32 2.5m BLACK CA ASSY	[ ]		AKJ	
	Note: Must order one (J1479A) ballast kit for each Rack System/E containing a Enterprise Server. Refer to the Storage, Accessories, and Other Peripherals chapter of the Ordering Guide for field rack menu.				
11.2	<b>Factory Rack Integration into Rack System/E cabinet (rack kit hardware and integration service)</b>	[ ]	J1528AZ		
	Note: Must order one Power Cord Option.				
	4.5m, North America power cord, plug style: L6-20	[ ]		AW4	
	4.5m, International power cord, plug style: unterminated	[ ]		AW5	
	4.5m, European power cord, plug style: IEC309/16A	[ ]		AWU	
	4.5m, European power cord, plug style: CEE 7/7	[ ]		AWT	
	4.5m, China power cord, plug style: GB1002	[ ]		AKM	
	4.5m, Server to UPS power cord, plug style: L6-30P	[ ]		A5F	
	4.5m, Server to UPS power cord, plug style: unterminated	[ ]		A5G	
	4.5m, Server to UPS power cord, plug style: C-20	[ ]		A5H	
	2.0m, Jumper/Universal UPS-PDU power cord, plug style: C-20	[ ]		A5N	
	Pwr Crd C19/ISI-32 2.5m BLACK CA ASSY	[ ]		AKJ	
	Note: Must order 2M (A4902A), 1.6M (A4901A) or 1.25M (A4900A) Rack System/E in same order section.				
	Note: Must order one (J1479A) ballast kit for each Rack System/E containing a Enterprise Server.				
	Note: Interconnect and configuration of this product with other products in the racked solution being ordered will be performed by the factory only when specified via a Solution Integration Service Plan (A3142B #002) with a detailed Visio Drawing attachment. Otherwise, data cable may ship unconnected and the switch settings on the products may not be configured. Refer to the Systems chapter of the Ordering Guide for factory integrated cabinet menu.				
11.3	<b>Pedestal kit - For stand-alone installation.</b>		A6726A		
	Note: Includes wall power cords based on ship to country code.				
12.0	<b>Power Protection</b>				
12.1	<b>System Hotswap Power Supply (Required -- order 1 additional supply for each ordered cell board)</b>				
	Power Supply	[ ]	A6099A	OD1	
	Note: Redundant supply included with base system				
12.2	<b>Uninterruptible Power Supply (UPS) (Optional)</b>				
	Minimum power protection for single server - PowerTrust II-MR 6.5kW/9.0 kVA UPS 230V (A6584A)				
	Also available - PowerTrust II-MR (A6585A)				
	Refer to the Storage, Accessories, and Other Peripherals chapter of the Ordering Guide for menus.				
13.0	<b>HP-UX Operating Environment License-to-Use (Required)</b>				
	<i>Choose one or more of the following Operating Environments, one type per partition. Order a quantity equal to the the number of processors on which that operating environment will be run.</i>				
	HP-UX Operating Environment License-to-Use - Basic Environment -- does not include additional products	[ ]	B9088AC		
	HP-UX 11i Enterprise Operating Environment License-to-Use on ONE processor	[ ]	B9090AC		
	HP-UX 11i Mission-Critical Operating Environment License-to-Use on ONE processor	[ ]	B9092AC		
	HP-UX Technical Computing Operating Environment License-to-Use on ONE processor	[ ]	B6822AC		
13.1	<b>HP-UX Operating Environment Type, Release Level, Media and Instant Ignition (optional)</b>				
	<i>Choose one or more of these four media products if Instant Ignition or CD Kits are needed. Instant Ignition and CD kit should match the license(s)-to-use. Must specify one version and one language. Choose Instant Ignition or a CD kit or both.</i>				
	<b>HP-UX Operating Environment (Basic environment - no additional products included)</b>	[ ]	B3920EA		



	Description		Product #	Opt #	Price
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i	[ ]		UM9	
	<b>HP-UX Enterprise Operating Environment</b>	[ ]	B7993AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Enterprise HP-UX</i> )	[ ]		UM9	
	<b>HP-UX Mission-Critical Operating Environment</b>	[ ]	B7994AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Mission-Critical HP-UX</i> )	[ ]		UM9	
	<b>HP-UX Technical Computing Operating Environment</b>	[ ]	B6821AA		
	Localization for System Messages and Documentation - See CPL for current localization options	[ ]		#	
	CD Kit	[ ]		AAF	
	Instant Ignition	[ ]		OD1	
	HP-UX Version 11i ( <i>this is only version available for Technical Computing Operating Environment</i> )	[ ]		UM9	
14.0	<b>System Integration Specification Plan (Optional)</b> <i>Note: Submittal form required to request System Integration Specification Plan (SISP); see configuration guide.</i>	[ ]	A3142B		
	Basic SISP Configuration - includes custom root volume LVM, kernel parms, racking, and patch loading	[ ]		001	
	Enhanced SISP Configuration - includes option 001 contents plus extended LVM and mirrored disk configuration	[ ]		002	
14.1	<b>HP Readiness Analysis Services (Optional)</b>				
	HP rp8400 foundation readiness analysis express service	[ ]	H9180A	005	
	HP rp8400 always-on readiness analysis express service	[ ]		006	
15.0	<b>Supplemental Systems Support</b> <i>To order support, select the desired Supplemental System Support option for each ordered product.</i>				
15.1	<b>Supplemental System Support (Optional)</b> (Select a H440xA System Support Product/Option for 1 year of upfront support. Select a H440xY System Support Product/Option for 3 years of upfront support.) NOTE: For each order ensure that a consistent duration (1 yr. or 3 yr.) of support is purchased. When purchasing upfront system support products/options, ensure the hardware response time matches or exceeds the response time in the warranty. IMPORTANT: Not all option features are offered with every option or supported product. Some of the HW option features (response time) are included with the standard warranty for the product.				
	License to use SW/Same day HW support - One Year	[ ]	H4402A		
	License to use SW/Same day HW support - Three Year	[ ]	H4402Y		
	Telephone SW/Next day HW support - One Year	[ ]	H4401A		
	Telephone SW/Next day HW support - Three Year	[ ]	H4401Y		
	Telephone SW/Same day HW support - One Year	[ ]	H4403A		
	Telephone SW/Same day HW support - Three Year	[ ]	H4403Y		
	License to use SW/24 x 7 HW support - One Year	[ ]	H4404A		
	License to use SW/24 x 7 HW support - Three Year	[ ]	H4404Y		
	Telephone SW/24 x 7 HW support - One Year	[ ]	H4405A		
	Telephone SW/24 x 7 HW support - Three Year	[ ]	H4405Y		
15.2	<b>Additional System Support Options</b>				
	<b>a. Personalized System Support (Optional)</b> (Select H4375A support product on each processor. Requires H4401A/H4401Y, H4403A/H4403Y, or H4405A/H4405Y on same product) NOTE: H4375A is not offered as a Multiyear System Support Option	[ ]	H4375A		
	<b>b. Installation and Network Configuration for system components (Optional)</b>				
	Installation/network configuration (for customer-installable products)	[ ]	H4725A		
	Network configuration (for HP-installable products)	[ ]	H4726A		
15.3	<b>Design and Deployment Services (Optional - select 1)</b>				

	Description		Product #	Opt #	Price
	<b>a. HP Startup Integration Express Service w/partitioning</b>				
	HP startup integration express service	[ ]	H2916AA		
	For rp8400 Server	[ ]		007	
	<b>b. HP SmartSet factory integration with partitioning</b>	[ ]	H9913A		
	First rp8400 server	[ ]		001	
	Additional rp8400 servers on the same order	[ ]		002	
	<b>c. HP Onsite Partitioning</b>				
	HP onsite partitioning service	[ ]	H8392AT		
	Additional partition	[ ]		001	
15.4	<b>Critical Systems Support (Optional)</b>				
	Select H4385A option 900 or 901 for first server in the environment; H4385A on each additional system.	[ ]	H4385A		
	(CSS provides 6-hour hardware call-to-repair commitment - available within 50 miles of primary	[ ]	900		
	HP-Support Responsible Office; priority system recovery)	[ ]	901		
15.5	<b>Critical Systems Support Solution Enhancements (Optional)</b>	[ ]	H4385A		
	Select H4385A with options ORC and 382 for SAP support.	[ ]	ORC, 382		
	Select H4385A with options ORC and 205 for Critical E-Commerce Support (CECS)	[ ]	ORC, 205		
15.6	<b>Business Recovery Basic Service (Optional)</b>	[ ]	H4391A		
	(Select H4391A for Non-SAP or H4392A for SAP Business Recovery Service.)	[ ]	or H4392A		
15.7	<b>Business Continuity Support (Optional)</b>				
	Select H4395A BCS for an Additional System	[ ]	H4395A		

### hp server rp8400 – upgrades

	Description		Product #	Opt #	Price
1.0	<b>hp server rp8400 - iCOD Upgrades</b>				
	iCOD 650 MHz CPU with 2.5MB Integrated Cache - Activation Fee for 1 CPU	[ ]	A6719A		
	Note: Order this product to obtain the license to activate one iCOD CPU in the system				
	iCOD 750 MHz CPU with 2.5MB Integrated Cache - Activation Fee for 1 CPU	[ ]	A6720A		
	Note: Order this product to obtain the license to activate one iCOD CPU in the system				
2.0	<b>hp server rp8500 - CPU return credits</b>				
	650 MHz PA-RISC 8700 CPU with 2.25 MB Integrated cache -Pack of 2 CPUs	[ ]	A6443AN	0D1	
	Note: This product is eligible towards the purchase of 750 MHz CPUs				



## hp server rx9610

	Description		Product#	Opt#	Price
1.0	<b>hp server rx9610 (Required -- Max 1)</b> hp server available in 4,8,12 and 16 way configurations	[ ]	A6754A		
	<i>Enter the following menu selections as sub-items to the server selected in 1.0 above.</i>				
2.0	<b>Choose rx9610 Base System Configuration - Required</b>				
2.1	<b>rx9610 Enterprise Server</b> Base Configuration includes 1 basic cabinet, 1 main cabinet fan box (5 fan module), 1 system card assembly, 1 system card, 1 XBC DC-DC converter package, 1 clock card, 1 core box, 1 power module index (cage), 6DPS (digital power supply), 1 DPB module (digital power bay), 1 junction box (AC), 1 cables (set), 1 PCIA-66M Box with 3.6m GSL cables, 1 PC (for service processor console), Cell card extractor (Basic System Unit does not include cell boards (processors) or memory DIMMs (order below).	[ ]	A6755A		
3.0	<b>Cell Board with 4 Itanium Processors (CANNOT mix different processor speeds or cache sizes in system) Cell Board contains 16 DIMM slots</b> <i>Note 1: Cell boards must be ordered minimum 1, maximum 4</i>				
3.1	Cell Board set-up with 4 Itanium 733MHz 2Mbyte Cache Processors	[ ]	A6756A	OD1	
3.2	Cell Board set-up with 4 Itanium 800MHz 4Mbyte Cache Processors	[ ]	A6758A	OD1	
3.3	Memory Expansion Board (OPTIONAL: 1 per cell card assembly) (Memory Expansion Board, if ordered, should be ordered for all cell boards) Memory Expansion board allows for memory to be doubled, adds additional available 16 DIMM slots) Must purchase memory separately. <b>MEMORY EXPANSION BOARD RECOMMENDED FOR MAXIMUM PERFORMANCE.</b>	[ ]	A6759A	OD1	
4.0	Memory Modules (Required --Min 1 GB, Max 8 GB per cell board) <i>Addition of memory expansion board from above allows for max of 16 GB per cell board</i> <i>Note 1: Recommended-Memory configuration should be ordered in the same quantity for each cell board.</i>				
	Memory set - 1 GB (4 x 256MB Dimms)	[ ]	A6760A	OD1	
	Memory set - 2 GB (4 x 512MB Dimms)	[ ]	A6761A	OD1	
5.0	Optional- Base System Unit includes one internal 66Mhz PCI Chassis. Can add additional PCI chassis or Disc Storage Box (max 1) in SPU Rack.				
5.1	Additional Internal 8-Slot 66Mhz PCI Chassis (includes 4 GSL 3.6 m cables)	[ ]	A6763A	OD1	
5.2	Additional Internal 8-Slot 33Mhz PCI Chassis (includes 2 GSL 3.6 m cables)	[ ]	A6764A	OD1	
5.3	Internal 8-Slot Disc Storage Box (Optional)(Max 1)(must order SCSI I/O adapter from below)	[ ]	A6765A	OD1	
5.4	18 GB Disk drives for Disc Storage Box (min 0, max 8)	[ ]	A6766A	OD1	
	<i>Note : An I/O Rack expansion cabinet is required for additional PCI Chassis'</i>				
6.0	External PCI I/O Expansion (Order the following as separate line items) <i>Note 1: Must order Rack System A6768A for external PCI Chassis, and each can hold from 1-5 PCI Chassis</i> External I/O Expansion (Maximum 2 I/O expansion Racks per system) Note: Max PCI slots per system restricted by number of processors cell boards installed System Max: 2 66Mhz PCI chassis per cell board or 4-33Mhz PCI chassis per cell board. (See Configuration Guide for mix of PCI Chassis per Cell board) MAX PCI Chassis: 16 processors-----8 66Mhz Chassis (64 PCI slots)(includes BSU PCI Chassis) MAX PCI Chassis: 16 processors-----6 66Mhz Chassis & 4 33Mhz Chassis (80 PCI slots)(inc. BSU PCI Chassis) MAX PCI Chassis: 16 processors -----4 66Mhz Chassis & 8 33Mhz Chassis (96 PCI slots)(inc. BSU PCI Chassis)				
6.1	I/O Expansion Rack, Power (includes 2 Digital Power Supply Modules) and Utilities Subsystem (must order 1 Digital Power Supply, DPS, module for every 2 PCI Chassis (1 DPS module for PCI Chassis #3 & #4, one more for PCI Chassis #5))	[ ]	A6768A		
6.2	Digital Power Supply Module for expansion rack (max 2 additional, total 4 per I/O rack (2 included in base rack))	[ ]	A6796A	OD1	
6.3	I/O Chassis 8-Slot 66Mhz PCI Chassis (includes 4 GSL 3.6M cables)	[ ]	A6763A	OD1	
6.4	I/O Chassis 8-Slot 33Mhz PCI Chassis (includes 2 GSL 3.6M cables)	[ ]	A6764A	OD1	
	<b>Ordering HP-UX Operating System, I/O and Associated Components</b>				
7.0	HP-UX Operating Environments (Required)				
7.1	HP-UX 11i IPF Operating Environment per CPU License-to-Use (Required- Min 4) Please order in				

	Description		Product#	Opt#	Price
	groups of 4				
7.2	HP-UX 11i Operating Environment Per-Processor LTU for Itanium Processor Family (IPF) (Note: Order quantity equal to the number of active processors)	[ ]	B9429AC		
7.3	HP-UX 11i Operating Environment Media for Itanium Systems	[ ]	B9106AA		
7.4	DVD Media	[ ]		AJR	
7.5	HP-UX 11i version 1.5 (Must make a version selection)	[ ]		UME	
7.6	Factory Integration	[ ]		OD1	
7.7	English Localization (required)	[ ]		ABA	
8.0	HP-UX I/O and Networking Cards for the PCI Chassis <i>Note 1: Max number of PCI cards is 8 per number of 8-Slot PCI Chassis ordered.</i> <i>Note 2: Max number of Storage Interface Adapters is 64 per system</i>				
8.1	Dual Port Ultra 2 SCSI	[ ]	A5150A	OD1	
8.2	Dual FWD SCSI-2 Card	[ ]	A5159A	OD1	
8.3	Single Port Fibre Channel <i>Note 3: Max number of LAN Interface adapters is 32 per system</i>	[ ]	A5158A	OD1	
8.4	10/100 Base-TX LAN Adapter, RJ45 Connector	[ ]	A6792A	OD1	
8.5	1000 BaseSX LAN Adapter	[ ]	A4926A	OD1	
8.6	1000 BaseT LAN Adapter	[ ]	A4929A	OD1	
9.0	Power Protection				
	Uninterruptable Power Supply (UPS) (optional –No Max)				
9.1	8.0kVA (8.0kW) UPS	[ ]	A6585A		

## rx9610 Upgrades

	Description		Product #	Opt #	Price
	<b>rx9610 Upgrades</b>				
1.0	I/O Expansion Rack <b>External PCI I/O Expansion (Order the following as separate line items)</b> <i>Note 1: Must order Rack System A6768A for external PCI Chassis, and each can hold from 1-5 PCI Chassis'</i> <b>External I/O Expansion (Maximum 2 I/O expansion Racks per base system)</b> <b>Note: Max PCI slots per system restricted by number of processors cell boards installed</b> <b>System Max:</b> 2 66Mhz PCI chassis per cell board or 4-33Mhz PCI chassis per cell board. MAX PCI Chassis: 16 processors-----8 66Mhz Chassis (64 PCI slots) = 8 I/O Chassis total MAX PCI Chassis: 16 processors-----6 66Mhz Chassis & 4 33Mhz Chassis (70 PCI slots) = 10 I/O Chassis total MAX PCI Chassis: 16 processors -----4 66Mhz Chassis & 8 33Mhz Chassis (96 PCI slots) = 12 I/O Chassis total				
1.1	I/O Expansion Rack, Power (includes 2 Digital Power Supply Modules) and Utilities Subsystem (must order 1 Digital Power Supply, DPS, module for every 2 PCI Chassis (1 DPS module for PCI Chassis #3 & #4, one more for PCI Chassis #5))	[ ]	A6768A		
1.2	Digital Power Supply Module for expansion rack (max 2 additional, total 4 per I/O rack (2 included in base rack))	[ ]	A6796A		
1.3	I/O Chassis 8 slot 66MHz PCI Chassis(includes 4 GSL 4.7m cables)needed for 2nd I/O Cabinet	[ ]	A6763A	001	
1.4	I/O Chassis 8 slot 33MHz PCI Chassis(includes 2 GSL 4.7m cables)needed for 2nd I/O cabinet	[ ]	A6764A	001	
1.5	I/O Chassis 8-Slot 66Mhz PCI Chassis (includes 4 GSL 3.6M cables)	[ ]	A6763A		
1.6	I/O Chassis 8-Slot 33Mhz PCI Chassis (includes 2 GSL 3.6M cables)	[ ]	A6764A		

## HP 9000 Enterprise Server Model T600 Upgrades

	Description		Product #	Opt #	Price
◆	Select the desired Supplemental Support Option for each ordered product noted with an asterisk (*).				
◆	Select processor upgrade. <b>MUST choose one only.</b>				
•	Additional HSC bus converter	[ ]	A3567A		
•	Additional HP-PB bus converter	[ ]	A3568A		
•	8 GB memory carrier for T600 (no memory installed; check Configuration Guide if mixing with A2234A, A2588A and A2589A)	[ ]	A3839A		
•	1 GB memory module for A3839A	[ ]	A3832A		
•	<b>Optional - Add HP PowerTrust UPS or resilient power for SPU power fail protection</b>				
•	Note: Order power distribution strip upgrade kit (below) for use of HP PowerTrust UPS in an existing 1.6 m cabinet. Order new cabinet separately, if desired.				
•	Standalone 5.5 kVA Rackmounted HP PowerTrust Uninterruptible Power Supply (UPS) including Right To Use for HP PowerTrust UPS control software for field add-on.	[ ]	A3589A	002	
	– 200-240V European power connection	[ ]		017	
	– 200-240V U.S. power, with cord and connector	[ ]		018	
	– Replace standard DB25 cable with a 4-meter DB9 cable for connection to PCI multiplexer on V-Class.	[ ]		022	
•	Standalone resilient power supply for T600 (one per 6 CPUs)	[ ]	A4885A		

## HP 9000 V2600 Servers

July, 2001

	Description		Product #	Opt #	Price
1.0	<b>HP 9000 V2600 Server Configuration (Required – Max 1 with V2600)</b> HP 9000 V-Class Server Solution Enter the following menu selections as sub-items to the server solution selected in 1.0.	[ X ]	A5073A		
2.0	<b>V2600 (If selected – Min 1, Max 2)</b> V2600 Base Configuration: Cabinet with 4 power supplies, 4 PCI 2X card cages, and power cord pre-determined by the shipping address. No CPU or memory included. <i>Note: V2600 customization of hardware and HP-UX is bundled with the system. Please see configuration guide for details.</i> <i>Note: If ordering stacking option, the second system should be on the same order section.</i> Factory Stacking Option (Optional) System to be stacked on top System to be configured as the bottom system, includes the stacking kit	[ ]	A5824A		
3.0	<b>System Hardware Documentation (Optional – Max 10)</b> See Corporate Price List (CPL) for current localization options.				
3.1	Localized V2600 HW Manual Kit Taiwan – Chinese Localization Korea – Korean Localization China – Chinese Localization U.S. – English Localization Japan – Japanese Localization	[ ]	A5845A	#	
4.0	<b>Processor Boards (One of the following is required)</b> <i>Note: At least one processor board must be ordered. There are two processor board options for the V2600. The first contains a single CPU per processor board. The second contains two CPUs per processor board.</i> <i>Note: Configurations that include both Single and Dual processor boards require a total of 16 processor boards.</i> <i>Note: Field upgrades from Single to Dual CPUs are supported. (Reference the V2500 upgrade menu)</i>				
4.1	<b>V2600 Processors</b> Single CPU processor board: 552Mhz PA-8600 (Min 2, Max 16) Dual CPU processor board: 552Mhz PA-8600 (Min 1, Max 16)	[ ]	A5825A	OD1	
4.2	<b>iCOD Processor Modules</b> <i>Note: To order enablement of iCOD processor boards on existing systems, please see V-class upgrade menu in Chapter 3.</i> Right to Access V2600 iCOD dual CPU processor board (factory integration required) Right to Access V2600 iCOD dual CPU processor board (required if order A6130A) iCOD CPU Agent License (required if order A6126A or A6130A)	[ ]	A6130A	OS4	
5.0	<b>Service Support Processor</b> <i>Note: One or more of the following products are required.</i> <i>Note: If the customer already has a supported workstation (with HP-UX 10.20), then B7148AA must be ordered.</i> <i>Note: Refer to the V-Class Configuration guide for Service Support Processor requirements.</i>				
5.1	Service Support Processor with V2500/V2600 Diagnostics Software Pre-loaded This includes a B180L Workstation, with the V2600 Diagnostics Software pre-loaded, English localization only. English keyboard, localized power cord.	[ ]	A5489A		
5.2	V2600 Diagnostics software for Service Support Processor Software for an HP Workstation to act as a Service Support Processor.	[ ]	B7148AA		
5.3	Terminal Mux for Unified Service Support Processor <i>Note: The Terminal Mux supports up to 16 V2600 cabinets.</i>	[ ]	A5533A		
5.4	Terminal Mux Cable Kit <i>Note: One Terminal Mux Cable Kit per additional V2600 cabinet required.</i>	[ ]	A5534A		
6.0	<b>Memory Controllers and DIMMS</b> <i>Note: One of the following memory systems is required.</i> Memory subsystem.				
6.1	<b>Memory (non-SCA) (Optional – Min 1GB, Max 32GB)</b>				

	Description		Product #	Opt #	Price
	Memory Controller Boards (Required – Order 1, 2 or 4 board pairs)				
	Memory Controller Board Pairs	[ ]	A5078A	OD1	
	Memory DIMMs				
	At least one of the following two DIMM types must be ordered (Required -- Max 4 per A5078A)				
	<i>Note: Consult the configuration guide for suggested memory configurations.</i>				
	<i>Note: Mixed DIMM configurations are supported excluding SCA DIMMs.</i>				
	<i>Note: All memory boards must be configured identically.</i>				
	128MB DIMM type for a total of 1GB	[ ]	A3732A	OD1	
	256MB DIMM type for a total of 2GB	[ ]	A5082A	OD1	
6.2	<b>SCA Memory (Optional – Min 1GB, max 32GB)</b>				
	SCA Memory Controller Boards (Required – Order 1, 2 or 4 board pairs for SCA enabled system)				
	SCA Memory Controller Board Pairs	[ ]	A5517A	OD1	
	SCA Memory DIMMs				
	One of the following two DIMM type options must be ordered (Required -- Max 4 per A5517A)				
	<i>Note: Consult the configuration guide for suggested memory configurations.</i>				
	<i>Note: Mixed DIMM configurations are supported excluding non-SCA DIMMs.</i>				
	<i>Note: All memory boards must be configured identically.</i>				
	128MB SCA DIMM type for a total of 1GB	[ ]	A5199A	OD1	
	256MB SCA DIMM type for a total of 2GB	[ ]	A5085A	OD1	
7.0	<b>Additional I/O and networking cards for PCI Card Cages (Max 28 total cards)</b>				
	<i>Note: Refer to the Configuration Guide for PCI card cage power and slot guidelines.</i>				
	<i>Note: A minimum of 1 SCSI-2 card is required to support the internal user accessible media device.</i>				
7.1	PCI FWD SCSI-2 Card (Required – Min 1, Max 22)	[ ]	A4800A	OD1	
7.2	Single Port PCI LVD ULTRA2 LVD/SE SCSI Card (Optional – Max 20)	[ ]	A5149A	OD1	
7.3	PCI-32 Fibre Channel 1062 Mb/s Short Wave Card				
	<i>Note: There is no boot capability for A5158A.</i>				
	One Port PCI 2X Fibre Channel Adapter (Optional - Max 25)	[ ]	A5158A	OD1	
7.4	PCI FDDI				
	PCI Dual FDDI LAN Adapter (Optional – Max 16)	[ ]	A3739B	001	
	Factory Integrated			OD1	
	PCI Dual FDDI LAN Adapter Software and License (Optional – Max 1)	[ ]	J3626AA		
	Instant Ignition	[ ]		OD1	
	PCI Dual FDDI LAN Adapter Manual (Optional – Max 1)	[ ]	J3628AA*		
7.5	PCI ATM				
	PCI ATM 155 Mb/s Adapter (Optional – Max 16)	[ ]	J3557A*	OD1	
	OC3 Multi-mode fiber interface (Required with option OD1)	[ ]		001	
	PCI ATM Adapter Software and License (Optional – Max 1)	[ ]	J3572AA*	AEP	
	Instant Ignition	[ ]		OD1	
	PCI AT 155 Mb/s MMF Adapter (Optional – Max 16)	[ ]	A5513A	OD1	
	PCI AT 155 Mb/s UTP5 Adapter	[ ]	A5515A	OD1	
	PCI AT 622 Mb/s MMF Adapter	[ ]	A5483A	OD1	
7.6	100 Base-T LAN				
	PCI 10/100Base-T LAN Adapter, RJ45/BNC/AUI Connectors (Required – Min 1, Max 16)	[X]	A3738A	OD1	
	(Optional – Max 16 for RJ45/BNC or 8 for AUI)				
7.7	100Base-Fx LAN				
	PCI 100Base-Fx LAN Adapter, Fiber connection (Optional - Max 16)	[ ]	A5172A	OD1	
7.8	1000 Base-T LAN				
	PCI 1000BaseSX LAN Adapter (Optional -- Max 16)	[ ]	A4926A*	OD1	
	PCI 1000BaseSX GB LAN Adapter LTU (Optional -- Max 1)	[ ]	J1642AA*	AEP	
	Instant Ignition			OD1	
	PCI 1000BaseSX GB LAN Manual (Optional -- Max 1)	[ ]	J1643AA*		
7.9	PCI Token Ring				
	PCI Token Ring LAN Adapter LTU (Optional -- Max 1)	[ ]	J1644AA*	AEP	
	Instant Ignition	[ ]		OD1	
	PCI Token Ring LAN Adapter Manual (Optional -- Max 1)	[ ]	J4242AA*		
	PCI Token Ring 4/16/100 Adapter (Optional – Max 4)	[ ]	A5783A	OD1	
	X.25				
7.10	Dual port PCI adapter (Optional – Max 8)	[ ]	J3525A*	OD1	



	Description		Product #	Opt #	Price
	2 RS-232-C cables (3m)	[ ]		1AT	
	2 V.35 cables (3m)	[ ]		1AU	
	2 X.21/V11 cables (3m)	[ ]		AFR	
	2 RS-449 cables (3m)	[ ]		AFQ	
	2 RS-530 cables (3m)	[ ]		001	
	<i>Note: One of the following software options must be ordered with an X.25 adapter.</i>				
	X.25 high performance software (Optional – Max 1)	[ ]	J2793B	AEP	
	Instant Ignition	[ ]		OD1	
	Frame Relay LTU (Optional -- Max 1)	[ ]	J3529A*	AEP	
	Instant Ignition	[ ]		OD1	
7.11	<b>HyperFabric</b>				
	PCI HyperFabric card (Optional – Max 8)	[ ]	A4919A*	OD1	
	HyperFabric driver for V-Class (Optional – Max 1)	[ ]	B6257AA*	OD1	
	PCI HyperFabric2 card (Factory integrated ONLY with HP UX 11.0)	[ ]	A6386A*	OD1	
7.12	<b>PCI Multiplexer (for UPS A1350A)</b>				
	<i>Note: It is possible to use the V2500 built-in serial interface (Port B) to connect the UPS</i>				
	PCI 8 port serial MUX	[ ]	A6748A	OD1	
	Replace 4 foot cable with 12 foot cable	[ ]		001	
	PCI 64 port serial MUX	[ ]	A6749A	OD1	
	Port module accessory kit	[ ]		001	
7.13	<b>I/O and Networking Documentation</b>				
	Documentation and release notes for each I/O card in the server (Optional – Max 5)	[ ]	A5207A		
8.0	<b>User Accessible Media Drives</b>				
8.1	Embedded DVD-ROM, factory integrated (Required – Max 1)	[ X ]	A5220A	ODS	
8.2	Additional User Media Drives (Optional – Max 1)				
	12GB DDS-3 DAT Tape Drive, factory integrated	[ ]	A3542A	OD1	
	2nd DVD-ROM drive, factory integrated	[ ]	A5220A	OD1	
9.0	<b>Internal Ultra-SCSI Disk Drives</b>				
	<i>(Recommend 1 PCI Ultra-SCSI Card for each 4 devices)</i>				
	<i>Note: Not permitted for high availability installations.</i>				
	<i>Note: Not allowed with MC/ServiceGuard</i>				
	See Configuration Guide for details.				
9.1	8 Drive Disk Tray (Optional – Max 2)	[ ]	A4805A	OD1	
	<i>Note: The A5520A cable is required for internal disks, 1 per SCSI controller.</i>				
	Internal LVD SCSI-3 cable (Min 1, Max 2 per tray)	[ ]	A5520A	OD1	
9.2	18GB LVD Ultra2-SCSI Disk Drive (Optional – Max 8 per disk tray) (A5149A is required for interface to LVD disk)	[ ]	A5084A	OD1	
10.0	<b>HP-UX operating system (Optional -- Max 1)</b>				
	HP-UX Server Operating System , revision 11.0	[ ]	B3920EA	UM4	
10.1	<b>Localization for system messages &amp; documentation (Optional -- Max 1)</b>				
	See Corporate Price List (CPL) for current localization options	[ ]		# _____	
10.2	<b>Software pre-loading (Optional -- Max 1)</b>				
	Instant Ignition: pre-loaded and configured HP-UX operating system and additional HP Software (If not checked, the option AAF is required)	[ ]		OD1	
	<i>Notes: If software pre-load is desired (instant ignition), order at least one system disk per SPU.</i>				
	<b>64-bit configuration (Optional)</b>	[ ]		ASF	
	<b>Configure as NFS Server (Optional, may select if ordering option OD1 -- Max 1)</b>	[ ]		AU8	
	<i>Note: Cannot be ordered with AU9.</i>				
	<b>Configure as Compute Server (Optional, may select if ordering option OD1 -- Max 1)</b>	[ ]		AU9	
	<i>Note: Cannot be ordered with AU8.</i>				
	<b>Configure with UNIX File System (HFS)</b>	[ ]		ASG	
	<b>(Optional, may select if ordering option OD1 -- Max 1)</b>				
	<i>Note: The Journaled File System is the default with HP-UX 11.0</i>				
10.3	<b>CD Media Kit (Optional -- Max 1)</b>	[ ]		AAF	
10.4	<b>Custom Instant Ignition</b>				
	This service will automatically be provided for every V2500 and V2600 system at no charge to customize LVM, kernel parameters, racking, patch loading and mirrored disk configuration. This service replaces the System Integration Specification Plan (SISP) product A3142B. Please see the				



	Description		Product #	Opt #	Price
	Configuration Guide for details.				
10.5	<b>HP-UX license (Required -- Max 1)</b> Special supplemental support options required. See Section 16 of this guide. (To order System Support Options, refer to your product screen in your quoting system or WWOMS) HP-UX license and media base product includes unlimited license for one V-Class cabinet.	[ X ]	B3919EA		
	HP-UX revision 11.0	[ ]		UM4	
10.6	<b>Software pre-loading (Optional - Max 1)</b> Factory Integration	[ ]		OD1	
10.7	<b>HP-UX License (Required - Max 1)</b> Unlimited license for V-Class cabinet	[ X ]		B9V	
10.8	<b>HP-UX Documentation, revision 11.0, English (Optional -- Max 2)</b> Manuals on CD-ROM	[ ]	B3921EA*	OBC	
	System Administration	[ ]		OBE	
	Programming Reference	[ ]		OBF	
	HP DCE Documentation	[ ]		AVC	
	CDE General Usage	[ ]		AVL	
10.9	Any Pre-loaded Software. (Optional) <i>Notes: 1. Factory installed (instant ignition) software other than HP-UX Operating System. 2. Only include software products with an 'OD1' option (instant ignition)</i>				
11.0	<b>Primary expansion rack and integrated devices.</b> <b>(Order the following as separate line items.)</b> <i>Note: Not required for V-Class Enterprise Servers since they are already in their own cabinets. Note: If software pre-load is desired (instant ignition), order at least one bootable disk per server. Note: Order additional 1.96m or 1.6m expansion racks as required for additional peripherals. In the Ordering Guide, please see Chapter 2 for Integrated Cabinets and Chapter 4 for peripherals and accessories. Consult the configuration guide for further information on peripherals.</i>				
12.0	<b>Supplemental Systems Support</b> To order support, refer to the Systems Support section of the ordering guide and select the desired supplemental System Support Option for each ordered product.				
13.0	<b>Power Protection</b> <b>Uninterruptible power supply (UPS) (Optional – No Max)</b> * See Chapter 4 Peripherals and Accessories HP PowerTrust UPS for ordering instructions.				
	PowerTrust II-MR 6.5kW/9kVA UPS 230V Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.	[ ]	A6584A		
	PowerTrust II-MR 8kW/12kVA UPS 230V Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.	[ ]	A6585A		
	PowerTrust II-MR 6.5kW/8kW Battery Pack Set (2 batteries/set) note: 3 additional battery packs for a max of 4 SNMP Card Communication Kit	[ ]	A6587A		
	Contact Closure Card Kit w/cable (direct connection w/native NT or remote status connection	[ ]	A6593A		
		[ ]	A6597A		

For Systems Management section, please refer to Figure 2.1 for ServiceControl mission-critical.

## V-Class Upgrade Products

	Description		Product #	Opt #	Price
	<b>Select the desired Supplemental System Support Option for each ordered product</b>				
1.0	<b>HP 9000 V-Class Server Base Configuration upgrade (Required – Max 1)</b> <i>Note: To order support, select the desired supplemental System Support Options for each ordered product noted with an asterisk (*).</i> <i>Note: Customers without an HP-UX support contract have to order HP-UX 11 EP 990P.</i>				
	Upgrade base configuration V22*0 to V2500	[ ]	A5086A		
	<i>Note: Includes 4 Power supplies, 4 PCI 2X Card Cages, fans, midplane module, and V2500 diagnostics software for Service Support Processor.</i>				
	Upgrade base configuration V22*0 to V2600	[ ]	A5846A		
	<i>Note: Includes 4 Power supplies, 4 PCI 2X Card Cages, fans, midplane module, and V2500</i>				



	Description		Product #	Opt #	Price
	<i>diagnostics software for Service Support Processor.</i>				
	Upgrade base configuration V2500 to V2600	[ ]	A5847A		
	<i>Note: Includes Hardware label kit, upgrade documentation</i>				
2.0	<b>System Hardware Documentation (Optional – Max 10)</b>				
	V2500 H/W Manual documentation - See Corporate Price List (CPL) for current localization options.	[ ]	A5075A	#	
	V2600 H/W Manual documentation - See Corporate Price List (CPL) for current localization options.	[ ]	A5845A	#	
3.0	<b>Upgrade Processor Boards</b>				
	<i>Note: At least one processor board must be ordered. There are two processor board options for the V2500/V2600. The first contains a single CPU per processor board. The second contains two CPUs per processor board.</i>				
	<i>Note: If Single and Dual processor boards are mixed, a total of 16 processor boards are required.</i>				
3.1	<b>V2500 Processors</b>				
	Single CPU processor board: 440Mhz PA-8500 (Min 2, Max 16)	[ ]	A5491A		
	Dual CPU processor board: 440Mhz PA-8500 (Min 1, Max 16)	[ ]	A5492A		
	Upgrade from Single to Dual CPU processor: 440Mhz PA-8500	[ ]	A5502A		
3.2	<b>V2600 Processors</b>				
	Single CPU processor board: 552Mhz PA-8600 (Min 2, Max 16)	[ ]	A5825A		
	Dual CPU processor board: 552Mhz PA-8600 (Min 1, Max 16)	[ ]	A5826A		
	Upgrade from Single to Dual CPU processor: 552Mhz PA-8600	[ ]	A5848A		
3.3	<b>Additional V2250 (240 MHz) PA-RISC CPU with 4 MB cache</b>	[ ]	A5066A*		
	<i>Note: Customer may receive volume discounts depending on the number of V2250 CPUs ordered:</i>				
	<i>1-7 CPUs ordered: \$21,420 per CPU</i>				
	<i>8-15 CPUs ordered: \$18,360 per CPU</i>				
	<i>16 CPUs ordered: \$ 15,300 per CPU</i>				
3.4	<b>iCOD processor upgrade</b>				
	<i>Note: Choose one of the following products to enable an iCOD processor board.</i>				
	Enable V2500 dual CPU processor board	[ ]	A6127A		
	Enable V2600 dual CPU processor board	[ ]	A6131A		
	<i>Note: Choose one of the following products to renew iCOD CPU right-to-access</i>				
	1yr renew right to access V2500 iCOD CPU	[ ]	A6408A		
	1yr renew right to access V2600 iCOD CPU	[ ]	A6409A		
4.0	<b>Upgrade Memory</b>				
	<i>Note: One of the following memory systems is required</i>				
4.1	<b>V2500/V2600 Upgrade Memory (non-SCA)</b>				
	Memory Controller Boards (1, 2, or 4 board pairs)	[ ]	A5078A		
	<i>Note: Existing V22X0 memory DIMMs are usable on the A5078A memory board.</i>				
	<i>Note: All memory boards must be configured identically.</i>				
	<i>Note: Consult the configuration guide for suggested memory configurations.</i>				
	128MB DIMM type for a total of 1GB	[ ]	A3732A		
	256MB DIMM type for a total of 2GB	[ ]	A5082A		
4.2	<b>V2500/V2600 SCA Upgrade Memory</b>				
	SCA Memory Controller Boards (1, 2 or 4 board pairs)	[ ]	A5517A		
	SCA Memory Controller Board Pairs				
	SCA Memory DIMMs				
	<i>One of the following two DIMM type options must be ordered for SCA Memory Boards (Required -- Max 4 per A5517A)</i>				
	<i>Note: Consult the configuration guide for suggested memory configurations.</i>				
	<i>Note: All memory boards must be configured identically.</i>				
	128MB SCA DIMM type for a total of 1GB	[ ]	A5199A		
	256MB SCA DIMM type for a total of 2GB	[ ]	A5085A		
4.3	<b>V22x0 Memory</b>				
	Memory Carrier Board, Set of two	[ ]	A3730A		
	1 GB Memory , 128 MB DIMMs, Set of eight	[ ]		UTC	
5.0	<b>V-Class Field Stacking Kit (Optional)</b>				
	V-Class Field Stacking Kit	[ ]	A3746A		
6.0	<b>Upgrade Service Support Processor (Optional)</b>				
	<i>Note: Refer to config guide for minimum Service Support Processor requirements</i>				
	Upgrade to B180L+ Service Support Processor (Optional)	[ ]	A5489A*		



	Description		Product #	Opt #	Price
	This includes a B180L Workstation, with the V2500/V2600 Diagnostics Software pre-loaded, English localization only. English keyboard, localized power cord.				
	Terminal Mux for Unified Service Support Processor	[ ]	A5533A		
	<i>Note: The Terminal Mux supports up to 16 V2500/V2600 cabinets.</i>				
	Terminal Mux Cable Kit	[ ]	A5534A		
	<i>Note: One Terminal Mux Cable Kit per additional V2500/V2600 cabinet required.</i>				
7.0	<b>User Accessible Media Drives (Optional -- Max 2)</b>				
7.1	DVD-ROM drive	[ ]	A5220A	002	
7.2	12GB DDS-3 DAT Drive	[ ]	A3542A	002	
	<i>Note: For field integration of the above products, the A4803A must be ordered.</i>				
7.3	DVD/DAT Field Install Kit	[ ]	A4803A		
8.0	<b>V-Class Cables (Optional - for field upgrades)</b>				
8.1	SCSI Cables for External HVD Devices	[ ]	A3401A		
	5M V-CL VHDCI CA SE/LVD I/L Term	[ ]		841	
	10m 68 Pin HD Inline Terminator Cable	[ ]		851	
	2/5m V 68 Pin HD Inline Terminator Cable	[ ]		871	
	2/3m V 68 Pin HD Inline Terminator Cable	[ ]		873	
	5m 68 Pin HD Inline Terminator Cable	[ ]		875	
8.2	SCSI –3 Cable for internal HVD Disks (For use with A4800A)	[ ]	A5068A		
8.3	SCSI-3 Cable for internal LVD Disks (For use with A5149A)	[ ]	A5520A		
9.0	<b>Return Credits</b>				
	Return credit for PA-8200 240Mhz processor for V2250	[ ]	A5066AN	001	
	Return credit for PA-8500 440Mhz single processor board for V2500	[ ]	A5491AN	001	
	Return credit for PA-8500 440Mhz dual processor board for V2500	[ ]	A5492AN	001	
	Return credit for PA-8500 440MHz dual processor iCOD board for V2500	[ ]	A6126AN	001	
	Return credit for PA-8500 440MHz dual processor iCOD board for V2600	[ ]	A6130AN	001	
	Return credit for V22X0 Memory Controller board pairs	[ ]	A3730AN	001	
10.0	<b>Additional six slot PCI card cage for V2250</b>	[ ]	A3729A		
11.0	<b>V-Class Power Supply for V2250</b>	[ ]	A3733A		
12.0	<b>V-Class Field Stacking Kit</b>	[ ]	A3746A		
13.0	<b>Internal Storage</b>				
	<i>Note: Not supported with MC/ServiceGuard or Critical Systems Support</i>				
13.1	V2250 Internal Storage (For Technical Server A4801A only)				
	Internal Disk SCSI-3 Cable	[ ]	A5068A		
	8 Drive Disk Tray	[ ]	A4805A		
	9GB Ultra SCSI Disk Drive	[ ]	A5065A		
	18GB Ultra SCSI Disk Drive	[ ]	A5490A		
13.2	V2500/V2600 Internal Storage (For Technical Servers only)				
	8 Drive Disk Tray	[ ]	A4805A		
	18 GB LVD Ultra SCSI Disk Drive	[ ]	A5084A		
	36 GB LVD Ultra SCAI Disk Drive	[ ]	A5530A		
14.0	<b>PCI Multiplexer</b>				
	PCI 64 port- capable serial multiplexer card – Max 20	[ ]	J3593A		
	16 port RS-232 DB25 port module (Min 1, Max 4 per J3593A)	[ ]	J2485A		
	25 ft cable connects the J3593A to the J2485A (One per J2485A)	[ ]	J3595A		
	PCI multiplexer software driver (One required per V-Class server)	[ ]	J3596A		
15.0	<b>UPS</b>				
	HP PowerTrust 5.5 kVA UPS (Requires 1 A1897A 1.6-m cabinet per UPS) (Must order PCI multiplexer in section 9.6. One RS-232 port per UPS)	[ ]	A3589B		
	Field integration unit	[ ]		002	
	V-Class bypass box with North American/Japanese cord set	[ ]		200	
	V-Class bypass box with European cord set	[ ]		201	
	Replace standard DB25 cable with a 4-meter DB9 cable for communication to PCI multiplexer of	[ ]		022	
16.0	<b>Supplemental System Support (Optinal)</b>				
	To order support, refer to the Systems Support section of the ordering guide and select the desired supplemental System Support Option for each ordered product.				



## Superdome Enterprise Server

August 2001

	Description		Product #	Opt #	Price	Forecast %
1.0	<b>Enterprise Server Configuration for Superdome (Required -- Max 1)</b>					
	HP Superdome Enterprise Server Solution	[ X ]	A5200A			100%
	ALL ORDERS MUST BE PROCESSED THROUGH WATSON or SBW Enter the following menu selections as sub-items to the solution selected in 1.0 above.					
2.0	<b>Choose Superdome Base System Configuration (Required, Must Select 1)</b>					
	Note1: For a 64 way capable system, a left chassis (A5201A) and a right chassis (A5202A) must be ordered.					
	Note 2: Must order one power option and one service option per cabinet.					
2.1	<b>16 Way Capable Base Configuration: Left Chassis with 4 power supplies, utility boards including single board computer. No CPU, memory or I/O included.</b>	[ ]	A6113A			
	200-240VAC 3 phase, 4-wire with power cord	[ ]		004		
	200-240VAC 3 phase, 5-wire with power cord	[ ]		005		
	Must select one option. For Foundation Configuration select 101 for 1 <sup>st</sup> system on an order and 102 for add'l system on an order for the same install project. For Critical Configuration, select 301 for 1 <sup>st</sup> system on an order and 302 for add'l system on an order for the same install project. For Business Continuity, select 501 for 1 <sup>st</sup> system on an order and 502 for add'l system on an order for the same install project. To order an add'l system at a later date for a different install project and delivery to the same site, the initial order must include 103, 303 or 503 for the initial system and 102, 302 or 502 for additional systems on that order. Must also order per CPU support option 104, 304 or 504 with CPU product A6161A and A6163A (only available for upgrades). Options 101, 301 or 501 must be ordered for the initial system at each site					
	Foundation Configuration, first system on order	[ ]		101		
	Foundation Configuration, add'l system on order, same site, same install project	[ ]		102		
	Foundation Configuration, add'l system same site, different install project	[ ]		103		
	Critical Systems Configuration, first system on order	[ ]		301		
	Critical Systems Configuration, add'l system on order same site, same install project	[ ]		302		
	Critical Systems Configuration, add'l system same site, different install project	[ ]		303		
	Business Continuity Configuration, first system on order	[ ]		501		
	Business Continuity Configuration, add'l system on order, same site, same install project	[ ]		502		
	Business Continuity Configuration, add'l system same site, different install project	[ ]		503		
2.2	<b>32 Way Capable Base Configuration: Left Chassis with 6 power supplies, utility boards including single board computer. No CPU, memory or I/O included.</b>	[ ]	A5201A*			
	200-240VAC 3 phase, 4-wire with power cord	[ ]		004		
	200-240VAC 3 phase, 5-wire with power cord	[ ]		005		
	Must select one option. For Foundation Configuration select 101 for 1 <sup>st</sup> system on an order and 102 for add'l system on an order for same install project. For Critical Systems Configuration, select 301 for 1 <sup>st</sup> system on an order and 302 for add'l system on an order for same install project. For Business Continuity Configuration, select 501 for 1 <sup>st</sup> system on an order and 502 for add'l system on an order for same install project. To order an add'l System at a later date for a different install project and delivery to the same site, must order 103, 303 or 503 for the initial system on that order and 102, 302 or 502 for additional systems on that order. Must also order per CPU support option 104, 304 or 504 with CPU product A6161A and A6163A (only available for upgrades). Options 101, 301 or 501 must be ordered for the initial system at each site.					
	Foundation Configuration, first system on order	[ ]		101		
	Foundation Configuration, add'l system on order, same site, same install project	[ ]		102		
	Foundation Configuration, add'l system, same site, different install project	[ ]		103		
	Critical Systems Configuration, first system on order	[ ]		301		
	Critical Systems Configuration, add'l system on order, same site, same install project	[ ]		302		
	Critical Systems Configuration, add'l system, same site, different install project	[ ]		303		
	Business Continuity Configuration, first system on order	[ ]		501		



	Description		Product #	Opt #	Price	Forecast %
	Business Continuity Configuration, add'l system on order, same site, same install project	[ ]		502		
	Business Continuity Configuration, add'l system, same site, different install project	[ ]		503		
2.3	32 Way Capable Add-on for 64 Way Configuration: Right Chassis with 6 power supplies, utility boards without single board computer No CPU, memory, or I/O included. If A5202A is ordered as part of a Superdome 64-way order, A5201A must also be ordered. If A5202A is ordered as an upgrade from a Superdome 32-way to Superdome 64-way, please order option 750 or 950.	[ ]	A5202A*			
	200-240VAC 3 phase, 4-wire with power cord	[ ]		004		
	200-240VAC 3 phase, 5-wire with power cord	[ ]		005		
	Note 1: For upgrades from Superdome 32 Way to 64 Way, at least one cell board Card (A5206A) with one active processor (A6161A), one memory DIMM (A5198A), one I/O Cage (A4856A) and one PCI Core I/O Card (A5210A) must be ordered.					
	Note 2: A high level design is required for this upgrade prior to order placement					
	Upgrade for all customers except Platinum Channel Partners	[ ]		750		
	Upgrade for Platinum Channel Partners only	[ ]		950		
	Must select one option and must match the option ordered for the A5201A. Order per CPU support option 104, 304 or x04 with CPU products A6161A and A6163A (only available for upgrades.					
	Foundation Configuration, first system on order	[ ]		101		
	Foundation Configuration, add'l system on order, same site, same install project	[ ]		102		
	Foundation Configuration, add'l system, same site, different install project	[ ]		103		
	Critical Systems Configuration, first system on order	[ ]		301		
	Critical Systems Configuration, add'l system on order, same site, same install project	[ ]		302		
	Critical Systems Configuration, add'l system, same site, different install project	[ ]		303		
	Business Continuity Configuration, first system on order	[ ]		501		
	Business Continuity Configuration, add'l system on order, same site, same install project	[ ]		502		
	Business Continuity Configuration, add'l system, same site, different install project	[ ]		503		
3.0	<b>Superdome Redundant Power</b>					
	16 Way Capable Configuration (A6113A) – Max 1					
	32 Way Capable Configuration (A5201A) – Max 1					
	64 Way Capable Configuration (A5201A and A5202A) – Max 2					
3.1	PDCA Redundant Power Source (Optional)	[ ]	A5800A	0D1		
	200-240VAC 3 phase, 4-wire with power cord	[ ]		004		
	200-240VAC 3 phase, 5-wire with power cord	[ ]		005		
4.0	<b>Cells, Processors and Memory (Required)</b>					
	Note 1: Cell boards must be ordered. The maximum number of cells is dependent on the configuration ordered:					
	16 Way Capable Configuration (A6113A) – Min. 2, Max 4.					
	32 Way Capable Configuration (A5201A) – Min. 4, Max 8.					
	64 Way Capable Configuration (A5201A and A5202A) – Min. 8, Max 16.					
	Note 2: Minimum number of cells per nPartition is 1.					
	Note 3: Default rules will be used for processor activation on cell boards.					
4.1	Cell Board set-up with 4 PA-8600 552MHz Processors	[ ]	A5206A*	0D1		
4.1.1	Right-to-use PA-8600 Processor	[ ]	A6161A			
	Foundation Configuration, iCOD	[ ]		104		
	Critical Systems Configuration, iCOD	[ ]		304		
	Business Continuity Configuration, iCOD	[ ]		504		
4.1.2	iCOD Right-to-access Processor	[ ]	A6162A			
	Note 1: The combination of A6161A and A6162A must equal 4 x the number of cell boards ordered.					
4.1.3	iCOD CPU agent license (required when ordering A6162A – Max 1)	[ ]	B9073AA			
5.0	<b>Memory (Required)</b>					
	Note 1: Memory modules per cell board Min 1, Max 8.					
	Note 2: Default rules will be used for Memory Dimm placement on cell boards.					



	Description		Product #	Opt #	Price	Forecast %
	Memory Module – 2GB (4 x 512MB Dimms)	[ ]	A5198A	OD1		
6.0	<b>12 Slot PCI Chassis (Required)</b>					
	Note 1: 12 Slot PCI Chassis per cell board – Max 1					
	Note 2: 12 Slot PCI Chassis per nPartition – Min 1					
	Note 3: Number of 12 Slot PCI Chassis is dependent on the configuration ordered:					
	16 Way Capable Configuration (A6113A) – Min 2, Max 4					
	32 Way Capable Configuration (A5201A) – Min 2, Max 8					
	64 Way Capable Configuration (A5201A and A5202A) – Min 4, Max 16					
	Note 4: A Rack System E expansion cabinet is required if the number of 12 Slot PCI Chassis exceeds the capacity of the Superdome Cabinet:					
	16 Way Capable Configuration (A6113A) – Not supported					
	32 Way Capable Configuration (A5201A) – Required if number of card cages is greater than 4.					
	64 Way Capable Configuration (A5201A and A5202A) – Required if number of card cages is greater than 8. If number of 12-Slot PCI chassis is greater than 14, two I/O Exp. Cabinets are required.					
6.1	12 Slot PCI Chassis for Superdome Cabinet	[ ]	A4856A	OD1		
7.0	<b>External PCI I/O Expansion (Order the following as separate line items)</b>					
	Note 1: External PCI I/O expansion is supported in both 1.96m (A4902A) and 1.6m (A4901A) Rack System E expansion cabinets.					
	Note 2: Additional peripherals can be installed into the Rack System E expansion Cabinet if any room is available.					
	Note 3: Refer to Rack System E configuration and ordering guide for Expansion Cabinet requirements and space utilization specifications.					
	Note 4: Must order Rack System E deep extension.					
7.1	External I/O Expansion:					
	<b>NOTE:</b> can not order I/O expansion until existing Superdome is upgraded to the new 500 MHz system frequency cell boards (also called First Performance Enhancement).					
	I/O Expansion Power and Utilities Subsystem Required: min 1, max 1	[ ]	A5861A			
	Factory installation into an Expansion cabinet			OD1		
	200 - 240 volts North America	[ ]		AW4		
	200 - 240 volts International	[ ]		AW5		
	240V/16Amp 4.5M PDU cord C19/IEC309-16A	[ ]		AWU		
	240V/16Amp 4.5M PDU cord C19/CEE 7/7	[ ]		AWT		
	Power cord for China	[ ]		AKM		
	Note: Order option 750 or 950 below for field installation of I/O Expansion Cabinet					
	Field installation for all customers except Platinum Channel Partners	[ ]		750		
	Field installation for Platinum Channel Partners only	[ ]		950		
7.2	I/O Chassis Enclosure (ICE) for 12-Slot PCI Chassis Required: min 1, max 3	[ ]	A5862A	OD1		
7.3	12 Slot PCI Chassis for Rack System E expansion cabinet Required: min 1	[ ]	A4856AZ			
7.4	Superdome I/O expansion side cover kit (provides side covers with a hole for I/O Expansion cables.) Only required if Superdome was shipped prior to June 1, 2001 and I/O expansion is to be field installed.	[ ]	A6830A			
7.5	Cable Assembly, I/O Expansion Clock, Shielded, Field Install Only	[ ]	A6827A			
7.6	<b>Additional I/O and networking cards for the PCI Card Cages</b> Please see section 9.					
7.7	For all external peripherals refer to the Configuration Guide.					
8.0	<b>I/O and Networking Documentation (Optional – Max 5 per SPU and/or Expansion Rack)</b>					
8.1	I/O and Networking Documentation for each I/O card in the server, includes release notes (Optional – Max 5 per SPU and/or Expansion Rack)	[ ]	A5207A			
9.0	<b>I/O and networking cards for the PCI Chassis</b>					

	Description		Product #	Opt #	Price	Forecast %
	Note 1: Max number of PCI cards is 12 per number of 12 Slot PCI Chassis ordered. Note 2: Refer to the Configuration Guide for PCI chassis power and slot budgeting guidelines.					
9.1	Superdome PCI Core I/O Card (Required – Min 1 per nPartition) Note: Max number of PCI Core I/O cards is 1 per the number of PCI Chassis ordered.	[ ]	A5210A	OD1		
9.2	PCI FWD SCSI-2 card	[ ]	A4800A	OD1		
9.3	Single Port Ultra 2 SCSI	[ ]	A5149A	OD1		
9.4	PCI Dual FWD SCSI-2 Card	[ ]	A5159A	OD1		
9.5	PCI Fibre Channel 2X	[ ]	A5158A	OD1		
9.6	PCI FDDI PCI Dual FDDI LAN Adapter (Optional) Factory Integrated	[ ]	A3739B	001 OD1		
9.7	100 Base-T LAN PCI 10/100 Base-TX LAN Adapter, RJ45 Connector	[ ]	A5230A	OD1		
9.8	1000 Base-T LAN 1000 BaseSX PCI LAN Adapter 1000 BaseT PCI Gigabit Ethernet LAN Adapter	[ ]	A4926A A4929A	OD1 OD1		
9.9	PCI HyperFabric 4X Adapter Card PCI HyperFabric 2X Adapter Card	[ ]	A6092A A6386A	OD1 OD1		
9.10	PCI ATM 155Mbps MMF	[ ]	A5513A	OD1		
9.11	PCI ATM 622Mbps MMF	[ ]	A5483A	OD1		
9.12	PCI ATM 155Mbps UTP5	[ ]	A5515A	OD1		
9.13	PCI Token Ring (4/16/100 Mb/s)	[ ]	A5783A	OD1		
9.14	X.25/Frame Relay/SDLC Interface card (2-Port) (Choose min/max one cable option) RS-232-C Cable, 3 M (Max 1) V.35 Cable, 3 M (Max 1) X.21/V11 Cable, 3 M (Max 1) RS-499 Cable, 3 M (Max 1) RS-530 Cable, 3 M (Max 1)	[ ]	J3525A	OD1 1AT 1AU AFR AFQ 001		
9.15	X.25/Frame Relay Interface card (4-Port) (Choose min/max one cable option) Quadriplus RS-232-C Cable, 1.8 M (Max 1) Quadriplus V.35 Cables, 1.8 M (Max 1) Quadriplus X.21/V11 Cables, 1.8 M (Max 1) Quadriplus RS-499 Cables, 1.8 M (Max 1) Quadriplus RS-530 Cables, 1.8 M (Max 1) <i>Note: One of the following software products must be ordered with an X.25/Frame Relay Adapter Card</i> X.25 High Performance Software Instant Ignition Frame Relay Software Instant Ignition	[ ]	J3526A	OD1 1AT 1AU AFR AFQ 001 AEP OD1 AEP OD1		
9.16	PCI 4-Port 100Base TX LAN Adapter	[ ]	A5506B	OD1		
9.17	10/100Base-T LAN Adapter	[ ]	A3738A	OD1		
9.18	Hippi (no factory integration)	[ ]	A5801A			
9.19	Praesidium Public Key Cryptography (PKC) Accelerator Card PCI Format (no factory integration)	[ ]	A5486A			
10.0	<b>DVD-ROM (Required – Max 1 per nPartition)</b> Note 1: Order all of the following products per nPartition for Superdome DVD solution. Note 2: Order A4901A and A4902A external rack with DVD solution. Note 3: The 2.5m HD 68-pin to HD 68-pin Cable (C4318SZ opt 802) can be substituted.					
10.1	PCI FWD SCSI-2 Card	[ ]	A4800A	OD1		
10.2	SE SCSI Converter	[ ]	C4316A			
10.3	250V Jumper Cord w/ C13 to C14, 2.3m	[ ]	E7742A			
10.4	Field-Racked Stationary Shelf (to accommodate up to 4 SE SCSI Converters)	[ ]	J1520A			
10.5	SCSI Cables for HP Storage Solutions	[ ]	A3401A			
10.6	10m 68 Pin HD Inline Term Cable	[ ]	A3401A	851		
10.7	HP SMART Storage Full Height Enclosure, Factory Racked (1 per 4 DVD-ROM devices)	[ ]	C4318SZ			



	Description		Product #	Opt #	Price	Forecast %
10.8	0.9m 68-pin HD to 68-pin HD Cable (See Note 3)	[ ]	C4318SZ	801		
10.9	HP SMART Storage DVD-ROM	[ ]	C4318SZ	108		
10.10	WSE 68-pin SCSI Terminator	[ ]	C4318SZ	835		
<b>External Storage</b>						
For ordering external storage products, please see Chapter 4 of the Order Guide. <b>Note:</b> if the customer plans <i>to boot</i> from <i>existing</i> external storage devices, then some services are required to attach and integrate this external boot device and to install the OS on this external boot device. Please see Chapter 11 of the Order Guide under section "Hardware Installation Services" for product H9907A and Chapter 12 under section "HP 9000 Enterprise Server Integration Services" for product H9910A.						
11.0	<b>HP-UX Operating Environments for Superdome (Optional if boot from existing customer's installed storage device. Otherwise, required. - Min 1)</b>					
How to order software licenses for HP-UX 11i operating environments on Superdome systems:						
<b>Step 1.</b> Determine the number of partitions and the number of cells in each partition.						
<b>Step 2.</b> Determine the number of active and inactive iCOD processors per cell.						
<b>Step 3.</b> Assign one (and only one) HP-UX 11i operating environment type (11i, Enterprise, or Mission Critical) to each partition.						
<b>Step 4.</b> Determine the operating environment LTU order quantities: add up the total number of active processors by operating environment type (11i, Enterprise, or Mission Critical). <b>Note:</b> there are 4 processors per cell and each active processor requires a r LTU.						
<b>Step 5.</b> Order one copy of operating environment media and instant ignition for each partition.						
<b>Example:</b> If your Superdome system will have the HP-UX 11i Operating Environment in 1 partition with 4 active processors and the HP-UX 11i Enterprise Operating Environment in 2 partitions, each with 4 active processors and 4 inactive iCOD processors (for a total of 16 processors in the 2 partitions running the Enterprise Operating Environment), you would order: quantity of: (4) - B9088AC (HP-UX 11i Operating Environment LTU on 1 processor) quantity of: (1) - B3920EA (HP-UX 11i Operating Environment Media) with options UM9, OD1, and localization option. quantity of: (8) - B9090AC (HP-UX 11i Enterprise Operating Environment LTU on 1 processor) quantity of: (2) - B7993AA(HP-UX 11i Enterprise Operating Environment Media) with options UM9, OD1, Localization option, and AAF (recommend only 1 AAF of the highest OE level media product).						
<b>Note 1.</b> Some Operating Environment types require supplemental support options. See Section 13 of this guide to order Supplemental System Support options and refer to your product screen in your quoting system or World Wide OMS)						
<b>Note 2.</b> LTU Quantity Price-Breaks occur at 16 processors and at 32 processors .						
<b>HP-UX 11i Operating Environment</b>						
11.1	HP-UX 11i Operating Environment LTU on 1 Processor	[ X ]	B9088AC			
11.2	HP-UX Operating Environment Media	[ ]	B3920EA			
11.3	HP-UX 11i (Required)	[ ]		UM9		
11.4	Factory Integration (Required)	[ ]		OD1		
11.5	CD Media Kit	[ ]		AAF		
Note: See section 11.24 below, to select the appropriate Language Option for localization of system messages and documentation.(Required)						
<b>HP-UX 11i Enterprise Operating Environment</b>						
11.6	HP-UX 11i Enterprise Operating Environment LTU on 1 Processor	[ ]	B9090AC			
11.7	HP-UX 11i Enterprise Operating Environment Media	[ ]	B7993AA			
11.8	HP-UX Version 11i (Required)	[ ]		UM9		

	Description		Product #	Opt #	Price	Forecast %
11.9	Factory Integration (Required)	[ ]		OD1		
11.10	CD Media Kit	[ ]		AAF		
11.11	Note: See section 11.24 below, to select the appropriate language option for localization of system messages and documentation.(Required)	[ ]		#_		
	<b>HP-UX 11i Mission Critical Operating Environment</b>					
11.12	HP-UX 11i Mission Critical Operating Environment LTU on 1 Processor	[ ]	B9092AC			
11.13	HP-UX 11i Mission Critical Operating Environment Media	[ ]	B7994AA			
11.14	HP-UX Version 11i (Required)	[ ]		UM9		
11.15	Factory Integration (Required)	[ ]		OD1		
11.16	CD Media Kit	[ ]		AAF		
11.17	Note: See section 11.24 below, to select the appropriate Language Option for localization of system messages and documentation.(Required)			#_		
	<b>HP-UX 11i Technical Operating Environment</b>					
11.18	HP-UX 11i Technical Operating Environment LTU on 1 Processor	[ ]	B6822AC			
11.19	HP-UX 11i Technical Operating Environment Media	[ ]	B6821AA			
11.20	HP-UX Version 11i (Required)	[ ]		UM9		
11.21	Factory Integration (Required)	[ ]		OD1		
11.22	CD Media Kit	[ ]		AAF		
11.23	Note: See section 11.24 below, to select the appropriate Language Option for localization of system messages and documentation.(Required)			#_		
	<b>Must Order 1 Language Option</b>					
11.24	Localization for system messages and documentation	[ ]		#_		
	Taiwan - Chinese localization			AB0		
	Korean localization			AB1		
	China - Chinese localization			AB2		
	English localization			ABA		
	German localization			ABD		
	Spanish localization			ABE		
	French localization			ABF		
	Japanese localization			ABJ		
	Swedish localization			ABS		
	Italian localization			ABZ		
12.0	<b>Support Management Station (Required)</b>					
	Note 1: See Configuration Guide for supported A-Class configuration (Required - Max 1)					
	Note 2: Must have one Support Management Station for every sixteen Superdome systems. Order EITHER Field Rack Kit OR Factory Integration.					
	Note 3: Must also order Ethernet Cable 25 ft CAT5 M/M, C7538A 5183-2688					
	Note 4: See Configuration Guide for Superdome Console					
	HP9000 A500 Enterprise Server	[ ]	A5570B			
	440 MHz PA-RISC 8500 CPU with 1.5 MB integrated cache	[ ]	A5571A	OD1		
	128 MB High Density SyncDRAM Memory Module (order quantity 2)	[ ]	A5572A	OD1		
	18 GB HotPlug Ultra SCSI Low Profile Disk	[ ]	A5574A	OD1		
	PCI 10/100 Base-TX LAN Adapter, RJ45 Connector	[ ]	A5230A	OD1		
	Secure Web Console PCI Card	[ ]	A5858A	OD1		
	Ethernet Crossover Cable	[ ]	C7538A			
	Field Rack Kit	[ ]	A5810A			
	Factory Integration	[ ]	A5811A			
	HP-UX Server Operating Environment Media for Servers	[ ]	B3920EA	UM4		
	Localization	[ ]		#_		
	Instant Ignition	[ ]		OD1		
	64-Bit Configuration	[ ]		ASF		
	HP-UX 11.0 User License	[ ]	B9088AA			
	HP-UX Version 11.0	[ ]		AH0		
	<b>Factory Racked Configuration</b>					
	HP SMART Storage Full Height Enclosure, Factory-Racked	[ ]	C4318SZ			

	Description		Product #	Opt #	Price	Forecast %
	HP SMART Storage DDS-3 Tape Drive	[ ]		103		
	HP SMART Storage DVD-ROM	[ ]		108		
	WSE 68-pin SCSI Terminator	[ ]		835		
	1m VHDCI 68-pin to HD 68-pin Cable	[ ]		811		
	Single SCSI Bus Config	[ ]		001		
	<b>Field Racked Configuration</b>					
	HP SMART Storage Full Height Enclosure, Field-Racked	[ ]	C4318B			
	HP SMART Storage NSE DDS-3 Tape Drive, Field-Racked	[ ]	C6365A			
	HP SMART Storage Half Height NSE DVD-ROM, Field-Racked	[ ]	C4315A			
	WSE 68-pin SCSI Terminator	[ ]	C2972A			
	1m VHDCI 68-pin to HD 68-pin Cable	[ ]	C2361B			
	.5m 68-pin HD to 68-pin HD Cable	[ ]	C2978B			
13.0	<b>Supplemental System Support</b>					
	Note 1: System Support for the server is included as part of the bundle. Supplemental System Support should be for the Operating Environment selected in 10.0 and possibly for the Support Management Station in 12.0.					
	Note 2: Not all option features are offered with every option or supported product. Some of the HW option features (response time) are included with the standard warranty for the product.					
13.1	License to use SW/Next day HW support – One Year	[ ]	H4400A			
	License to use SW/Next day HW support – Three Years	[ ]	H4400Y			
	License to use SW/Same day HW support – One Year	[ ]	H4402A			
	License to use SW/Same day HW support – Three Years	[ ]	H4402Y			
	Telephone SW/Next day HW support – One Year	[ ]	H4401A			
	Telephone SW/Next day HW support – Three Years	[ ]	H4401Y			
	Telephone SW/Same day HW support – One Year	[ ]	H4403A			
	Telephone SW/Next day HW support – Three Years	[ ]	H4403Y			
	License to use SW/24 x 7 HW support – One Year	[ ]	H4404A			
	License to use SW/24 x 7 HW support – Three Years	[ ]	H4404Y			
	Telephone SW/24 x 7 HW support – One Year	[ ]	H4405A			
	Telephone SW/Next day HW support – Three Years	[ ]	H4405Y			
13.2	For the Support Management Station only. OT3 required if purchasing the station on this order. (CSS provides 6-hour hardware call-to-repair commitment – available within 50 miles of primary HP-Support Responsible Office; priority system recovery.)	[ ]		OT3		

## Superdome Enterprise Server Upgrades

	Description		Product #	Opt #	Price	Forecast %
	Note 1: A high level design is required for add-ons and upgrades prior to order placement					
	Note 2: For Superdome 32-way to Superdome 64-way upgrade, please refer to the <b>Superdome menu</b> .					
	NOTE: can not order 32 to 64-way upgrade until existing Superdome is upgraded to the new 500 MHz system frequency cell boards (also called First Performance Enhancement).					
1.0	<b>Superdome 16-way to Superdome 32-way Upgrade (for all configurations)</b> NOTE: can not order 16 to 32-way upgrade until existing Superdome is upgraded to the new 500 MHz system frequency cell boards (also called First Performance Enhancement).	[ ]	A5204A	750		
2.0	<b>Superdome Enterprise Server Cell Add-On</b>					
	Cell Board set-up with 4 PA-8600 550 MHz Processors	[ ]	A5206A			
	NOTE: can not order add on cell boards upgrade until existing Superdome is upgraded to the new 500 MHz system frequency cell boards (also called First Performance Enhancement).					
	Right-to-use PA-8600 Processor	[ ]	A6161A			



## Chapter 2 Superdome Enterprise Server



	Description		Product #	Opt #	Price	Forecast %
	Foundation Configuration, iCOD	[ ]		104		
	Critical Systems Configuration, iCOD	[ ]		304		
	Business Continuity Configuration, iCOD	[ ]		504		
	iCOD Right-to-access Processor	[ ]	A6162A			
	iCOD CPU Agent License (Required when ordering A6162A – Max 1)	[ ]	B9073AA			
2.1	<b>iCOD Processor Upgrade</b>					
	iCOD Enable Right-to-use Processor	[ ]	A6163A			
	Foundation Configuration, iCOD	[ ]		104		
	Critical Systems Configuration, iCOD	[ ]		304		
	Business Continuity Configuration, iCOD	[ ]		504		
3.0	<b>Superdome Enterprise Server Memory Add-On</b>					
	Note: Memory increments by 4 Dimms					
	Memory Module 2GB (4 x 512MB Dimms)	[ ]	A5198A			
4.0	<b>Superdome Enterprise Server 12 Slot PCI Chassis Add-On</b>					
	Note: If number of 12 Slot PCI chassis exceeds 4 in an 8-cell capable system and 8 in a 16-cell capable system, a Rack System E expansion cabinet is required.					
	12 Slot PCI I/O Card Cage	[ ]	A4856A			
	PCI Core I/O Card	[ ]	A5210A			
5.0	<b>Superdome Enterprise Server Rack System E expansion Cabinet Add-On</b>					
	I/O Chassis Enclosure for 12 Slot PCI Chassis	[ ]	A5862A			
6.0	<b>Superdome Enterprise Server Redundant Power Source Add-On</b>					
	PDCA Redundant Power Source	[ ]	A5800A			
	200-240VAC 3 phase, 4-wire, with power cord			004		
	200-240VAC 3 phase, 5-wire, with power cord			005		
7.0	<b>Return Credits</b>					
	Return Credit for Cell Board	[ ]	A5206AN	001		
	Return Credit for Right-to-access PA-8600 Processor	[ ]	A6162AN	001		
	Return Credit for Right-to-use PA-8600 Processor	[ ]	A6161AN	001		
7.1	<b>Business Recovery Critical Service</b>					
	Optional but highly recommended with Critical Systems or Business Continuity Configurations.	[ ]	H4392A			

## Quick Steps for Ordering HyperPlex Data Center Solution

Note: The product structure of the HP 9000 HyperPlex Data Center Solution has been changed to allow more flexible and modular configuration. All HyperPlex Solutions MUST be accompanied by a hardware solution design (VISIO drawing). This ensures the factory has the necessary information to configure and test your customers solution prior to delivery.

**STEP 1:** Work with field/factory consultants to determine and/or validate a high-level solution architecture for your Multi-Computer Data Center design .  
**High Level Design** High-level solution design should define the following:

- Type/number of HyperPlex server nodes
- Server memory, internal mass storage, and I/O capacity planning
- Type/number of cabinets (1.6m and/or 2.0m)
- Type of external mass storage
- Type of node-to-node interconnect
- Management LAN requirements
- Console Management requirements
- Systems management software requirements (which system to load s/w on)
- High availability requirements

**STEP 2:** Go to the **HyperPlex Design Guide**, <http://hyperplex.cup.hp.com>, and navigate to a sample detailed solution design templates that best matches customer design. Field or factory Consultants can modify detailed design if required. Go to Step 3 now if a standard template will fill the customer requirement.

If there is no similar matching detailed design in the design guide, your local Technical Consultant representative can contact the Mission Critical Systems Engineering team to assist in development of a detailed custom design.  
Go to Step 3.

**STEP 3:** At the HyperPlex Design Guide, navigate to a solution template that closest match your customer requirements. **Sales Quote** Use sample sales quote to assist in developing your own customer sales quote.

***Sales Quote must include Enterprise Solution Integration Product number (A4913A) for factory integration.***

**Tips:**

1. Be sure to follow order format.
2. Carefully review detailed design and sample order quote to determine correct cables/quantities are ordered. In addition, make sure the networking I/O cards match the type of node-to-node interconnect fabric.
3. If an HA system is being ordered, be sure order has quantity 2 or more for items such as networking I/O cards, switches, hubs, cables, s/w licenses and mass storage.
4. Don't forget to order a rack-mount kit for each K-Class server.
5. Cable part numbers can be found on sample detailed designs.

**STEP 4:** Finalize Sales Quote and solution designs with Configuration Center, Mission Critical System Engineering Team, and/or Field/Factory Consultant.  
**Freeze Design & Sales Quote** Freeze changes in Sales Quote and Design Package.

**STEP 5:** Enter unchanged Sales Quote into order entry system using correct order format. Entire solution should be ordered under a single sales order. If entire solution cannot be ordered under a single sales order, please contact HP factory, so systems can be manually linked together for manufacturing verification and customer shipment.

**Submit Sales** If entire solution cannot be ordered under a single sales order, please contact HP factory, so systems can be manually linked together for manufacturing verification and customer shipment.

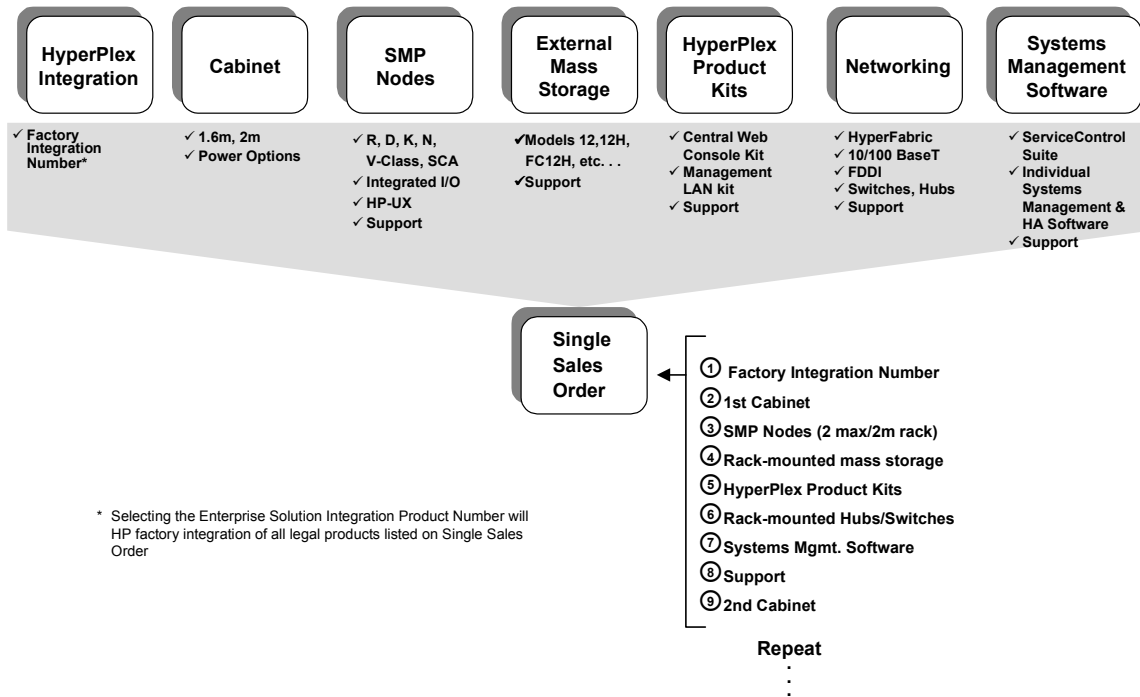
**Design**

Submit VISIO drawing of HyperPlex Solution to HP factory using the SISP tool located at: <http://www.sisp.hp.com>. In addition, you can optionally submit a software SISP for each of the HyperPlex servers.

Ordering a HyperPlex requires you to submit a VISIO drawing of the solution to the factory via the SISP website located at the <http://www.sisp.hp.com>. Located at this website are self-paced training documentation and help pages for any SISP issue. If your SISP issues are not addressed by either the training documentation and/or help pages, you can contact the following HyperPlex Order and Delivery Helplines:

- North America / Pacific Rim ONLY - telnet or area code (916) 748-2030
- Europe ONLY - Michael Haugs telephone number +49 7032 785250

**Ordering a HyperPlex Solution**



**Figure 2.0**

## HyperPlex Solution Products

### A4913A Enterprise Solution Integration Product Number

Comments: Ensures proper configuration information is communicated to the HP Factory for solution integration and testing.

Product No.	Description
A4913A	Enterprise Solution Integration Product Number – Factory Integrates HyperPlex

### A5790A HyperPlex Label Kit

Comments: Kit contains labels used to add the "HyperPlex" brand to platforms integrated in the factory or in the field. Eight of each of the following types of labels are provided in the kit: snap-fit for system racking, Lexan for system racking, Lexan for V-Class front door, and Lexan for V-Class side skin. Note that this label kit is also structured to the Central Web Console product (A5547A, A5550A).

Product No.	Description
A5790A	HyperPlex Label Kit

### A5551A HyperPlex Management LAN Kit

Comments: For multiple HP 9000 Enterprise Servers. May additionally be used for heartbeat LAN. Order one A5551A per HyperPlex along with one LAN cable per server.

Product No.	Description
A5551A	HyperPlex Management LAN Kit
A5551A-0D1	Factory Integrated
A5551A-1GP	R-Class SMP option
A5551A-A6P	D-Class SMP option
A5551A-A6Q	K-Class SMP option
A5551A-A6R	T-Class SMP option
A5551A-1GQ	N-Class SMP option
A5551A-A6S	V-Class SMP option

### A4891A HyperFabric Interconnect Switch

Product No.	Description
A4891A	HyperFabric Switch
A4891A-0D1	Factory Integration

### A4892A HyperFabric Cables

Product No.	Description
A4892A	HyperFabric Cable
A4892A-0D1	Factory Integration
A4892A-800	35ft Cable
A4892A-801	60ft Cable

**A4919A PCI HyperFabric Card**

Product No.	Description
A4919A	PCI HyperFabric Card (V- and N-Class)
A4919A-0D1	Factory Integration

**A4920A HSC HyperFabric K-Class Card**

Product No.	Description
A4920A	HSC HyperFabric K-Class Card
A4920A-0D1	Factory Integration

**A44921A HSC HyperFabric D-Class and R-Class Card**

Product No.	Description
A4921A	HSC HyperFabric Card
A4921-0D1	Factory Integration

**A5548A D-Class High Density Data Center Racking**

Comments: Allows 6 D-Class servers to be installed in one A3656A or C2787A 2-meter rack. Only available for field integration.

Product No.	Description
A5548A	D-Class High Density Racking Kit

**A5549A K-Class High Density Data Center Racking**

Comments: Allows 3 K-Class servers to be installed in one A3656A or C2787A 2-meter rack. Only available for field integration.

Product No.	Description
A5549A	K-Class High Density Racking Kit

**A4902A Rack System/E41 for HyperPlex**

Comments: A4902A new style 41 EIA cabinet. Does not supports High Density Racking Kits.

**A4901A Rack System/E33 for HyperPlex**

Comments: A4901A new style 33 EIA cabinet. Does not supports High Density Racking Kits.

**A3656A 2 Meter Vertical Rack for HyperPlex**

Comments: A3656A is the older style 40 EIA cabinet. Supports High Density Racking Kits and smoked plexiglass front door.

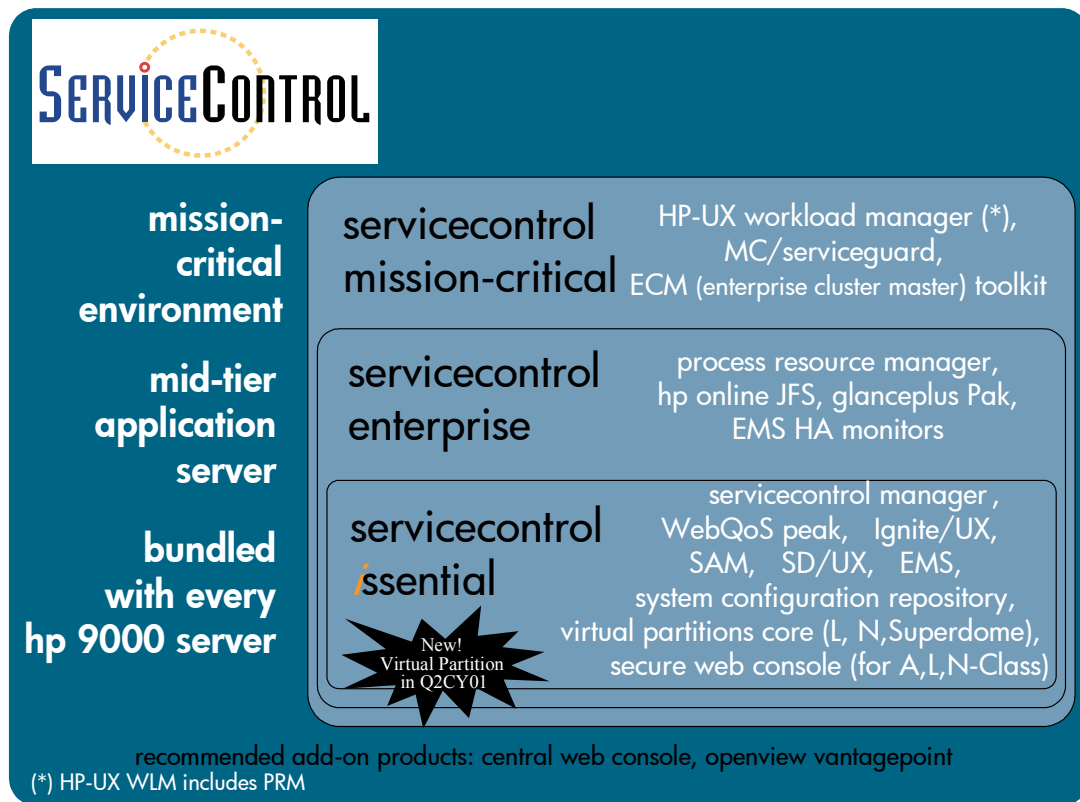
**A1897A 1.6 Meter Vertical Rack for HyperPlex**

Comments: A1897A is the older style 32 EIA cabinet. Supports High Density Racking Kits and smoked plexi glass front door.

## HP-UX ServiceControl

The HP-UX ServiceControl suite is a robust systems management system. It enables IT managers to run their high-performance HP-UX based environment with a high degree of discipline and control, and it delivers the best possible management for HP 9000 servers. The HP-UX ServiceControl suite allows IT managers to detect and avoid real and potential problems instantly, and to predictably manage system performance and response time dynamically across the HP HyperPlex platform.





With the unique combination of HP OpenView as the e-services management platform for heterogeneous environments and HP-UX ServiceControl addressing the specific management requirements for HP-UX, the HP HyperPlex architecture is now also the most manageable data center solution available.



**Figure 2.1 Easy Three-Tier Packaging**

**Table 2.9.1 ServiceControl Supportability**

Product Description	UNIX Release	Server/Workstation
HP Virtual Partitions (core) (L-Class, N-Class and Superdome)	HP-UX 11i and later	Server ; Bundled
ServiceControl Manager (SCM)	HP-UX 11.0	Server; Bundled
Ignite/UX	HP-UX 10.20 or 11.0	Server or Workstation; Bundled
WebQoS Peak	HP-UX 10.20 or 11.0	Servers; Bundled
Event Monitoring Service (EMS)	HP-UX 10.20 or 11.0	Server or Workstation; Bundled
Software Distributor/UX (SD/UX)	HP-UX 10.20 or 11.0	Server or Workstation; Bundled
System Administration Manager (SAM)	HP-UX 10.20 or 11.0	Server or Workstation; Bundled
System Configuration Repository (SCR)	HP-UX 10.20 or 11.0	Server or Workstation; Bundled
Secure Web Console (A-, L-, and N-Class)	HP-UX 10.20 or 11.0	Server or Workstation; Bundled
HP Process Resource Manager (PRM)	HP-UX 10.20 or 11.0 and later	Server or Workstation
HP Online Journalled File System (HP Online JFS)	HP-UX 11.0	Server or Workstation
HP OpenView GlancePlus Pak	HP-UX 10.20 or 11.0	Server or Workstation
EMS HA Monitors	HP-UX 10.20 or 11.0	Servers
HP-UX Workload Manager (HP-UX WLM)	HP-UX 11.0 and later	Server
MC/ServiceGuard	HP-UX 10.20 or 11.0	Server
Enterprise Cluster Master (ECM Toolkit)	HP-UX 10.20 or 11.0	Server
Network Node Manager	HP-UX 10.20 or 11.0	Server or Workstation
PerfView	HP-UX 10.20 or 11.0	Server or Workstation
Central Web Console	HP-UX 10.20 or 11.0	Server or Workstation

	ServiceControl essential
	ServiceControl enterprise
	ServiceControl mission-critical
	Add-on products

**Table 10.2**

Product Number	Description
B3835CA	HP Process Resource Manager for HP 9000 Servers and Workstations and HP-UX 10.20 only.
B3835DA	HP Process Resource Manager for HP 9000 Servers and Workstations and HP-UX 11.0 and later
B3929BA	HP Online JFS for HP 9000 Servers and Workstations and HP-UX 11.0 only.
B5736CA	EMS HA Monitors for HP 9000 Servers and HP-UX 10.20 only.
B5736DA	EMS HA Monitors for HP 9000 Servers and HP-UX 11.0 only.
B6131AA	HP OpenView GlancePlus Pak for HP 9000 Servers and Workstations for Tier I and HP-UX 10.20 and 11.0 only.
B6132AA	HP OpenView GlancePlus Pak for HP 9000 Servers and Workstations for Tier II and HP-UX 10.20 and 11.0 only.
B6133AA	HP OpenView GlancePlus Pak for HP 9000 Servers and Workstations for Tier III and HP-UX 10.20 and 11.0 only.
B8843CA	HP-UX Workload Manager for HP 9000 Servers and HP-UX 11.0 and later
B3935CA	MC/ServiceGuard for HP 9000 Servers and HP-UX 10.20 only.
B3935DA	MC/ServiceGuard for HP 9000 Servers and HP-UX 11.0 only.
B5139CA	ECM Toolkit for HP 9000 Servers and HP-UX 10.20 only.
B5139DA	ECM Toolkit for HP 9000 Servers and HP-UX 11.0 only.

	ServiceControl enterprise
	ServiceControl mission-critical

## Integrated Cabinets

### Rack System/E Features

- Designed for HP 9000 Rackmount servers and peripherals
- Used for T500 peripherals
- Available in both 2.0, 1.6, and 1.25 meter heights
- Meets 19" industry-standard package
- Divided into EIA (Electronic Industries Association) units of internal space (1 EIA unit is 44.45 mm or 1.75")
- Front to rear air flow
- Built-in bi-directional anti-tip foot
- Large casters included for added safety and mobility in all racks
- Factory installed server and/or peripherals in a cabinet

## High Density 23" Wide 1.6 Meter Cabinet

### Features

- Designed for dense racking of D-Class servers
- Will hold up to 4 D-Class servers
- Also available in version that holds up to 2 D-Class servers as well 15 EIA units of 19" peripherals

### Notes

Part #	Description	Capacity
A4902A	Rack System/E41 2 meter 19" cabinet	41 EIA units
A4901A	Rack System/E33 1.6 meter 19" cabinet	33 EIA units
A3764A	1.6 m 23" wide factory-integrated for D-Class	31 EIA units
A4900A	Rack System/E25 1.25 meter 19" cabinet	25 EIA units
A3765A	1.6 m 23" wide field-integrated for D-Class (Chapter 4)	31 EIA units

**Place each cabinet, along with its selected peripherals, on a separate section of the order. This indicates to the factory which products should be integrated into which cabinets.**

## Ordering Cabinets

### Ordering Factory-Integrated Cabinets

1. To order the factory-integrated cabinet with a new system, select the factory integration product from the system menu. This is not required for the T-Class or V-Class Enterprise Servers since they are already in their own cabinet.
2. Use the Factory-Integrated Cabinet Menu in Chapter Two to order the desired 19" wide or 23" wide factory integrated cabinet. Also use this menu to select the factory integrated peripherals to be integrated into the 19" wide cabinets. Note: Peripherals are not integrated at the HP factory into 23" wide cabinets. Integration of peripherals is only done in the field for 23" wide cabinets.
3. Optional: For maximum flexibility, additional peripherals and accessories can be ordered from Chapter Four. These products are typically not factory-integrated and may require installation at the customer's site.
4. To determine EIA sizing, UPS, and electrical cabinet loading, complete the integrated cabinet worksheet in Chapter Two of this guide.
5. Using the worksheet totals, determine the number of cabinets and UPSs required. Note: For high density D-Class 23" wide cabinets – up to 4 servers can be factory integrated in each cabinet.



6. Verify that each cabinet will accommodate all of its selected peripherals. Note: When ordering multiple cabinets of different configurations place each cabinet, along with its selected peripherals, on a separate section of the order This indicates to the factory which servers and peripherals should be integrated into which cabinets. Multiple cabinets of the exact same configuration can be ordered on the same order section.
7. If default integration is not desired, cabinets can be custom integrated by using the System Integration Specification Plan (SISP) product.

### Ordering Field-Integrated Cabinets

1. Select the desired cabinet peripherals from Chapter Four. See Chapter Four of the Configuration Guide for information on cabinet-supported, field-integrated peripherals. Product numbers for field integrated cabinets are the same as factory integrated cabinets. The only difference is that there is no factory integrated peripherals ordered with the cabinet. If the cabinet is ordered with a factory integrated peripheral or component, factory integration will occur.
2. To determine EIA sizing, UPS, and electrical cabinet loading, complete the integrated cabinet worksheet in Chapter Two of this guide.
3. Select the 2.0m, 1.6m, or 1.25m cabinets as well as accessories and cables from Chapter Four. Filler panels are recommended for each EIA unit not used by a peripheral device.
4. Using the worksheet totals, determine the number of cabinets and UPSs required. Note: Only one UPS and its related peripherals are supported in each field-integrated cabinet.
5. Verify that *each* cabinet will accommodate all of its selected peripherals.
6. Make arrangements for HP or customer installation.

## Factory Integrated Cabinets

### 23" Wide Cabinet

	Description		Product #	Opt #	Price
1.0	<b>1.6 m Integrated Cabinet – High Density D-Class 23" wide cabinet</b>		A3764A		
	Note: The Factory Integration product (A4834A) provides the integration service and all the necessary rackmount hardware to integrate one D-Class server into the 23" wide Factory Integrated Cabinet. The mounting kit (A4838A) is not needed for factory integration of a D-Class server into the 23" wide cabinet. The mounting kit (A4838A) is only required to provide the mounting hardware to integrate a D-Class server in the field into the 23" wide cabinet.				
	Note: 2 PDUs are required if 3 or 4 servers are integrated into the cabinet				
	• Cabinet with capacity to integrate 1 to 4 D-Class servers	[ ]	A3764A	001	
	• Cabinet with capacity to integrate 1 to 2 D-Class servers and 15 EIA units of 19" peripherals	[ ]	A3764A	002	
	Note: peripherals are integrated in the field, not at the HP factory				
	• 1st 200-240 volts North America power	[ ]	A3764A	AW4	
	• Add 2nd 200-240 volts North America power	[ ]	A3764A	A5J	
	• 1st 200-240 volts International power	[ ]	A3764A	AW5	
	• Add 2nd 200-240 volts International power	[ ]	A3764A	A5K	
	• 1st 240 volts North America UPS PDU	[ ]	A3764A	A5F	
	• 1st 240 volts European UPS PDU	[ ]	A3764A	A5G	
	• 1st 120/240 volts Universal UPS PDU	[ ]	A3764A	A5H	
	• Add 2nd 120/240 volts Universal UPS PDU	[ ]	A3764A	A5L	
	• Mounting kit for integrating in the field one D-Class server into the D-Class 23" wide cabinet	[ ]	A4838A		
	• D-Class deskside front bezel (optional)	[ ]	A4838A	010	
	(Only needed to replace the front bezel when moving a D-Class server in the field from a standard 19" wide cabinet to a 23" wide cabinet)				

## 19" Wide Rack System/E Cabinets

	Description		Product#	Opt#	Price
1.0	<b>Rack System/E41 2 meter 19" cabinet (41 EIA units)</b>	[ ]	A4902A		
	Delete Cabinet Side Panels	[ ]		AXW	
	Note: Side Panels can be deleted from orders when tie-together kits are used. Delete one set of side panels for each tie-together kit.				
	• Rear Door (Required – Max 1)	[ x ]	A5213AZ		
	• Depth Extension Kit for Rack System E/41 Cabinets, FACTORY Integrated	[ ]	A5543AZ		
	• Depth Extension Kit for Rack System E/41 FIELD Integration	[ ]	A5543A		
	• Anti-tip feet- bolt on (Included with A5543A(Z))	[ ]	A5540A		
	• Modular Power Distribution Unit (Max 6), 100-240VAC, 16amp, 7 C13, 1 C19 outlets	[ ]	A5137AZ		
	Note: Max 2 PDUs can be strung together using Jumper cord A5N. Order an equal number of cord options and PDUs.				
	Power Cord Options				
	200-240VAC North American power cord, 4.5m, L6-20P plug	[ ]		AW4	
	200-240 VAC International power cord, 4.5m, unterminated	[ ]		AW5	
	120/240 VAC Jumper/Universal UPS-PDU power cord, 2m, C-20 plug	[ ]		A5N	
	240 VAC European, 4.5m power cord,CEE7/7 plug	[ ]		AWT	
	240 VAC European, 4.5m power cord, IEC309 plug	[ ]		AWU	
	240 VAC North American UPS-PDU power cord, 4.5m, L6-30P plug	[ ]		A5F	
	240 VAC European UPS-PDU power cord, 4.5m, unterminated	[ ]		A5G	
	120/240 VAC Universal UPS-PDU power cord, 4.0m, C-20 plug	[ ]		A5H	
	• 120/240 VAC Power Cord C13-C20 4.4 m	[ ]	A5567A		
	• 120/240 VAC Power Cord C13-C14 4.4 m	[ ]	A5568A		
1.2	<b>Rack System/E33 1.6 meter 19" cabinet (33 EIA units)</b>	[ ]	A4901A		
	Delete Cabinet Side Panels	[ ]		AXW	
	Note: Side Panels can be deleted from orders when tie-together kits are used. Delete one set of side panels for each tie-together kit.				
	• Rear Door (Required – Max 1)	[ x ]	A5212AZ		
	• Depth Extension Kit for Rack System E/33 Cabinets, FACTORY Integrated	[ ]	A5542AZ		
	• Depth Extension Kit for Rack System E/33 FIELD Integration	[ ]	A5542A		
	• Anti-tip feet- bolt on (Included with A5542A(Z))	[ ]	A5540A		
	• Modular Power Distribution Unit (Max 6), 100-240VAC, 16amp, 7 C13, 1 C19 outlets	[ ]	A5137AZ		
	Note: Max 2 PDUs can be strung together using Jumper cord A5N. Order an equal number of cord options and PDUs.				
	Power Cord Options				
	200-240VAC North American power cord, 4.5m, L6-20P plug	[ ]		AW4	
	200-240 VAC International power cord, 4.5m, unterminated	[ ]		AW5	
	120/240 VAC Jumper/Universal UPS-PDU power cord, 2m, C-20 plug	[ ]		A5N	
	240 VAC European, 4.5m power cord,CEE7/7 plug	[ ]		AWT	
	240 VAC European, 4.5m power cord, IEC309 plug	[ ]		AWU	
	240 VAC North American UPS-PDU power cord, 4.5m, L6-30P plug	[ ]		A5F	
	240 VAC European UPS-PDU power cord, 4.5m, unterminated	[ ]		A5G	
	120/240 VAC Universal UPS-PDU power cord, 4.0m, C-20 plug	[ ]		A5H	
	• 120/240 VAC Power Cord C13-C20 4.4 m	[ ]	A5567A		
	• 120/240 VAC Power Cord C13-C14 4.4 m	[ ]	A5568A		
1.3	<b>Rack System/E25 1.25 meter 19" cabinet (25 EIA units)</b>	[ ]	A4900A		
	• Rear Door (Required – Max 1)	[ ]	A5211AZ		
	• Depth Extension Kit for Rack System E/25 Cabinets, FACTORY Integrated	[ ]	A5541AZ		
	• Depth Extension Kit for Rack System E/25 FIELD Integration	[ ]	A5541A		
	• Anti-tip feet- bolt on (Included with A5541A(Z))	[ ]	A5540A		
	• Modular Power Distribution Unit (Max 6), 100-240VAC, 16amp, 7ea. C13, 1ea. C19 outlets	[ ]	A5137AZ		
	Note: Max 2 PDUs can be strung together using Jumper cord A5N. Order an equal number of cord options and PDUs.				
	Power Cord Options				
	100-120 VAC US power cord, 4.5m, 5-20P plug	[ ]		AW3	

	Description		Product#	Opt#	Price
	200-240VAC North American power cord, 4.5m, L6-20P plug	[ ]		AW4	
	200-240 VAC International power cord, 4.5m, unterminated	[ ]		AW5	
	120/240 VAC Jumper/Universal UPS-PDU power cord, 2m, C-20 plug	[ ]		A5N	
	240 VAC European, 4.5m power cord,CEE7/7 plug	[ ]		AWT	
	240 VAC European, 4.5m power cord, IEC309 plug	[ ]		AWU	
	240 VAC North American UPS-PDU power cord, 4.5m, L6-30P plug	[ ]		A5F	
	240 VAC European UPS-PDU power cord, 4.5m, unterminated	[ ]		A5G	
	120/240 VAC Universal UPS-PDU power cord, 4.0m, C-20 plug	[ ]		A5H	
	• 120/240 VAC Power Cord C13-C20 4.4 m	[ ]	A5567A		
	• 120/240 VAC Power Cord C13-C14 4.4 m	[ ]	A5568A		
2.0	<b>HP Surestore Disk System HVD10 Factory Racked (3.5 EIA Units)</b>	[ ]	A5616AZ		
	Add on Power Supply and Blower Module	[ ]		001	
	Add on Bus Control Card	[ ]		003	
	4x18.2GB 10K RPM Ultra2 SCSI Disk Drives	[ ]		204	
	8x18.2GB 10K RPM Ultra2 SCSI Disk Drives	[ ]		208	
	10x18.2GB 10K RPM Ultra2 SCSI Disk Drives	[ ]		210	
	4x36.4GB 10K RPM Ultra2 SCSI Disk Drives	[ ]		304	
	8x36.4GB 10K RPM Ultra2 SCSI Disk Drives	[ ]		308	
	10x36.4GB 10K RPM Ultra2 SCSI Disk Drives	[ ]		310	
	4x73.4GB 10K RPM Ultra2 SCSI Disk Drives	[ ]		404	
	8x73.4GB 10K RPM Ultra2 SCSI Disk Drives	[ ]		408	
	10x73.4GB 10K RPM Ultra2 SCSI Disk Drives	[ ]		410	
	73.4GB 10K RPM Ultra3 SCSI Disk Drives (Note: Must order quantity 1 to 10 per enclosure)	[ ]		350	
	4x18.2GB 15K RPM Ultra2 SCSI Disk Drives	[ ]		504	
	8x18.2GB 15K RPM Ultra2 SCSI Disk Drives	[ ]		508	
	10x18.2GB 15K RPM Ultra2 SCSI Disk Drives	[ ]		510	
	2.5M 68 pin HD to 68 pin HD cable (M/M)	[ ]		802	
	2.5M 68P HD LP to 68P HD LP SCSI cable	[ ]		807	
	1M VHDCI to 68 pin HD SCSI cable	[ ]		811	
	2.5M VHDCI to 68 pin HD SCSI cable	[ ]		812	
	5M VHDCI to 68 pin HD SCSI cable	[ ]		813	
	10M VHDCI to 68 pin HD SCSI cable	[ ]		814	
	SCSI Cable 10M HDTS68 ILT (M/M)	[ ]		851	
	5M VHDS68/HDTS68 HVD ILT (M/M)	[ ]		877	
	10M VHDS68/HDTS68 HVD ILT (M/M)	[ ]		878	
3.0	<b>HP SureStore Disk System SC10 Factory Racked (3.5 EIA Units)</b>	[ ]	A5272AZ		
	Add-On Bus Controller Card	[ ]		001	
	Qty 4 18GB 10K HH Ultra2 SCSI LVD Drives	[ ]		204	
	Qty 8 18GB 10K HH Ultra2 SCSI LVD Drives	[ ]		208	
	Qty 10 18GB 10K HH Ultra2 SCSI LVD Drives	[ ]		210	
	Qty 4 36GB 10K HH Ultra2 SCSI LVD Drives	[ ]		304	
	Qty 8 36GB 10K HH Ultra2 SCSI LVD Drives	[ ]		308	
	Qty 10 36GB 10K HH Ultra2 SCSI LVD Drives	[ ]		310	
	Qty 4 73GB 10K HH Ultra2 SCSI LVD Drives	[ ]		404	
	Qty 8 73GB 10K HH Ultra2 SCSI LVD Drives	[ ]		408	
	Qty 10 73GB 10K HH Ultra2 SCSI LVD Drives	[ ]		410	
	73.4GB 10K RPM Ultra3 SCSI Disk Drives (Note: Must order quantity 1 to 10 per enclosure)	[ ]		350	
	4X18.2GB 15K RPM Ultra2 SCSI Disk Drive	[ ]		504	
	8X18.2GB 15K RPM Ultra2 SCSI Disk Drive	[ ]		508	
	10X18.2GB 15K RPM Ultra2 SCSI Disk Drive	[ ]		510	
	2M VHDCI Ultra SCSI Cable	[ ]		860	
	5M VHDCI Ultra SCSI Cable	[ ]		861	
	2M VHDCI/VHDCI Ultra SCSI Cable with In-Line Termination	[ ]		862	
	10M VHDCI Ultra SCSI Cable	[ ]		864	
	10M VHDCI Ultra SCSI Cable with In-Line Termination	[ ]		865	
4.0	<b>HP Surestore Disk System FC10 Factory Racked (3.5 EIA Units)</b>	[ ]	A5236AZ		
	2 each GBIC Fiber Optic-Shortwave (Must order additional count of 2 for daisy chaining)	[ ]		001	

Description	Product#	Opt#	Price
Qty 4 36GB 10K FC Drives	[ ]	304	
Qty 8 36GB 10K FC Drives	[ ]	308	
Qty 10 36GB 10K FC Drives	[ ]	310	
Qty 4 73GB 10K FC Drives	[ ]	404	
Qty 8 73GB 10K FC Drives	[ ]	408	
Qty 10 73GB 10K FC Drives	[ ]	410	
73.4GB 10K RPM FC Disk Drives (Note: Must order quantity 1 to 10 per enclosure)	[ ]	350	
Qty 4 18GB 15K FC Drives	[ ]	504	
Qty 8 18GB 15K FC Drives	[ ]	508	
Qty 10 18GB 15K FC Drives	[ ]	510	
2 Meter Fibre Channel cable	[ ]	0Z4	
16 Meter Fibre Channel cable	[ ]	AFY	
100 Meter Fibre Channel cable	[ ]	0Z6	
<b>HP Surestore Disk Array FC60 (4 EIA units)</b>			
<b>Requires one to six A5294AZ Disk Systems to form an array. Requires HP-UX 10.20 or later</b>			
<i>Standard Array includes:</i>			
Rackmount enclosure with two empty controller slots.			
Two power supplies			
Two fan modules			
One battery backup unit (BBU)			
Two power cords			
Mounting rails for HP cabinets			
Terminators for unused SCSI ports			
User manuals			
Factory integrated into specified rack			
<b>Controllers (Must select one option)</b>			
Single controller with 256MB cache, HP-UX firmware, one Media Interface Adapter and one filler panel	[ ]	203	
Dual controllers with 256MB mirrored cache and 2two Media Interface Adapter, HP-UX firmware	[ ]	204	
Dual controllers with 256MB mirrored cache and 2two Media Interface Adapter, Windows firmware	[ ]	205	
Dual controllers with 512MB mirrored cache and 2two Media Interface Adapter, HP-UX firmware	[ ]	304	
Dual controllers with 512MB mirrored cache and 2two Media Interface Adapter, Windows firmware	[ ]	305	
<b>Host Connect Cable Options</b>			
2 meter Fibre Channel Cable	[ ]	0Z4	
16 meter Fibre Channel Cable	[ ]	AFY	
50 meter Fibre Channel Cable	[ ]	0Z5	
100 meter Fibre Channel Cable	[ ]	0Z6	
<i>Enter the following selection as a sub-item to the A5277AZ product above</i>			
• <b>HP Surestore Disk System SC10, Array Integrated, Factory Racked (3.5 EIA Units)</b>	[ ]	A5294AZ	
This product may only be ordered in conjunction with the A5277AZ. To order a SC10 without integration into an array, order A5272AZ. Array integrated product includes:			
-Rackmount enclosure that accommodates 10 disk modules (1.6" or 1.0")			
-Two power supplies			
-Two fan modules			
-Two power cords			
-Two bus controller card modules (*with enclosure monitoring)			
-Mounting rails for HP cabinets			
-User manuals			
Two SCSI bus terminators			
-1/2U filler panel (as required for proper rack appearance)			
-0-ne or two meter VHDCI SCSI caable for connectionto the A5277AZ. The number of cables integration into an array, order A5272AZ. Array integrated product includes:			
A5277AZ = 2 SCSI cables for 4-6 A5294AZ per A5277AZZ = 1 SCSI cable per A5294AZ)			
<b>Storage Capacity Options</b>			
Note: All disk systems ordered with a single A5277AZ must have identical storage capacity options			

	Description		Product#	Opt#	Price
	Qty 4 18GB 10K RPM disk drive modules	[ ]		204	
	Qty 8 18GB 10K RPM disk drive modules	[ ]		208	
	Qty 10 18GB 10K RPM disk drive modules	[ ]		210	
	Qty 4 36GB 10K RPM disk drive modules			304	
	Qty 8 36GB 10K RPM disk drive modules			308	
	Qty 10 36GB 10K RPM disk drive modules			310	
	Qty 4 73GB 10K RPM disk drive modules			404	
	Qty 8 73GB 10K RPM disk drive modules			408	
	Qty 10 36GB 10K RPM disk drive modules			410	
	73.4GB 10K RPM Ultra3 SCSI Disk Drives (Note: Must order quantity 1 to 10 per enclosure)			350	
	Qty 4 18GB 15K RPM disk drive modules			504	
	Qty 8 18GB 15K RPM disk drive modules			508	
	Qty 10 18GB 15K RPM disk drive modules			510	
•	<b>Supporting Software for HP-UX (CD ROMs)</b>	[ ]	B6191AA		
•	<b>Supporting Software for NT</b>	[ ]	A5628A		
	<b>Add-On/Upgrade Products</b>				
•	Cache Memory upgrade, 2 X 256 MB DIMMs	[ ]	A5279A		
•					
•	Add on 18.2GB disk drive module, 10K RPM Ultra2 LVD	[ ]	A5282A		
•	Add on 36GB disk drive module, 10K RPM Ultra2 LVD	[ ]	A5595A		
•	Add on 73GB disk drive module, 10K RPM Ultra2 LVD	[ ]	A5622A		
•	Add on 73GB disk drive module, 10K RPM Ultra3 LVD	[ ]	A6276A		
•	Add on 18.2GB disk drive module, 15K RPM Ultra2 LVD	[ ]	A5633A		
•	Add On controller (no cache)	[ ]	A5287A		
	256 cache (Controller cache option required)	[ ]		002	
•	2 m, VHDCI SCSI cable M/M	[ ]	A5306A		
•	5 m, VHDCI SCSI cable M/M	[ ]	A5307A		
•	10 m, VHDCI SCSI cable M/M	[ ]	A5308A		
•	Rack rail accessory Kit (for legacy cabinets only: C2785A, C2786A, C2787A, A1896A, A1897A)	[ ]	A5250A		
•	Hp rack system/E Rack Rail Accessory Kit (for Cabinets: A4900A, A4801A, A4902A, J1502A, J1501A, J1500A)	[ ]	A52581A		
•	2 Meter Fibre Channel Cable	[ ]	A3583A		
•	16 Meter Fibre Channel Cable	[ ]	A3531A		
•	50 Meter Fibre Channel Cable	[ ]	A3735A		
•	100 Meter Fibre Channel Cable	[ ]	A3736A		
•	SCSI Terminator, VHDCI LVD/SE	[ ]	A5296A		
	<b>Supporting Software (This software is required for the array to work with HP-UX. The customer is not required to order more than one per installation site. When the array is ordered as part of an integrated system order, B6191A need not be ordered because the necessary supporting software will automatically be included with the HP-UX order.)</b>				
•	Supporting Software (CD-ROMs)	[ ]	B6191AA		
5.0	<b>Data and Terminal Controllers (DTCs)</b>				
•	<b>DTC 16TN telnet terminal server (2 EIA units)</b>	[ ]	J2060AZ		
	Replace 8 RJ-45 with 8 DB-25 modem ports	[ ]		UG5	
•	<b>DTC telnet terminal server bundle with 64 RS-232 ports (4 EIA units)</b>	[ ]	A2957AZ		
	Replace 8 RJ-45 with 8 DB-25 modem ports	[ ]		UG5	
•	<b>DTC72MX communications server with three available slots (3 EIA units)</b>	[ ]	J2070AZ		
	Configure with 24 RS-232 direct connect ports with RJ-45 connection.	[ ]		001	
	Configure with 48 RS-232 direct connect ports with RJ-45 connection.	[ ]		002	
	Configure with 72 RS-232 direct connect ports with RJ-45 connection.	[ ]		003	
	Replace 8 RJ-45 direct connect ports with 8 DB-25 modem ports	[ ]		UG5	
	Add X.25 board with RS-232 interface	[ ]		1CW	
	Add X.25 board with V.35 interface	[ ]		1CX	
	Add Telnet Access board	[ ]		004	



	Description		Product#	Opt#	Price
6.0	<b>I/O Expansion Module</b>				
	<b>For 890 &amp; T-500 corporate business servers only</b>				
	• HP-PB I/O expansion module (7 EIA units)	[ ]	A1828AZ		
7.0	<b>Power Protection -- Uninterruptible power supply (UPS) (Optional -- No Max)</b>				
	* See Chapter 4 Storage, Accessories, and Other Peripherals HP PowerTrust UPS for ordering instructions. See Rack Cabinet menu for racked UPS products.				
	• PowerTrust II-LR 2.0kVA(1.4kW) UPS 120V	[ ]	A1353A	*	
	• PowerTrust II-LR 2.0kVA(1.4kW) UPS 230V	[ ]	A1354A	*	
	• PowerTrust II-LR 3.0kVA(2.1kW) UPS 230V	[ ]	A1356A	*	
	• PowerTrust II-LR Battery Pack (note: each PowerTrust II-LR UPS comes with one battery pack. Max 5 battery packs per UPS)	[ ]	A1357A	*	
	• PowerTrust II-LR SNMP/WEB Card	[ ]	A1359A	*	
7.1	<b>Uninterruptible power supply (UPS) (Optional – No Max)</b>				
	See rack cabinet menu for racked UPS products.				
	• 3.0 kVA (3.0kW) rackmount HP PowerTrust UPS (must order option 021)	[ ]	A2998B	0DZ	
	DB9 to DB25 cable (required)	[ ]		021	
	200-240V option (US power)	[ ]		018	
	200-240V option (European power)	[ ]		017	
	• 5.5 kVA (5.5kW) rackmount HP PowerTrust UPS (must order option 021)	[ ]	A3589B	0D1	
	DB9 to DB25 cable (required)	[ ]		021	
	200-240V option (US power)	[ ]		018	
	200-240V option (European power)	[ ]		017	

<sup>1</sup> Consult PAL or ESP beginning August 1, 1997 for August 1 CPL pricing.

## Cabinet Worksheet

Rackmountable Products	kVA Units	Total kVA	EIA Units	Total EIA	Amps for 240V Cabinet	Total Amps	Amps for 120V Cabinet	Total Amps
<b>HP 9000 Servers (Max – 1 for factory integration)</b>								
A-Class (A180, A180C)	Qty. [ ]	.150 x Qty. =	2 X Qty. =		1.3 x Qty. =		3.6 x Qty. =	
R-Class (R380, R390)	Qty. [ ]	.880 x Qty. =	6 X Qty. =		4.0 x Qty. =		8.0 x Qty. =	
D-Class (D200-D230)	Qty. [ ]	.525 x Qty. =	15 x Qty. =		2.3 x Qty. =		4.6 x Qty. =	
D-Class (D250, D260)	Qty. [ ]	.770 x Qty. =	15 x Qty. =		3.4 x Qty. =		6.7 x Qty. =	
D-Class (D310-D330, D350, D360)	Qty. [ ]	.990 x Qty. =	15 x Qty. =		4.3 x Qty. =		8.6 x Qty. =	
D-Class (D270, D280, D370, D380, D390)	Qty. [ ]	.930 x Qty. =	15 x Qty. =		4.1 x Qty. =		8.1 x Qty. =	
E-Class	Qty. [ ]	.550 x Qty. =	6 x Qty. =		3.5 x Qty. =		6.5 x Qty. =	
K-Class (K220, K420)	Qty. [ ]	1.25 x Qty. =	17 x Qty. =		6 x Qty. =		10.5 x Qty. =	
K-Class (K260, K370, K380, K460, K570, K580)	Qty. [ ]	1.70 x Qty. =	17 x Qty. =		7.1 x Qty. =		14.2 x Qty. =	
L-Class (L2000)	Qty. [ ]	1.30 x Qty. =	7 X Qty. =		7 x Qty. =		13 x Qty. =	
L-Class (L1000)	Qty. [ ]	1.15 x Qty. =	7 X Qty. =		4.6 x Qty. =		9 x Qty. =	
N-Class (N4000)	Qty. [ ]	3.0 x Qty. =	10 X Qty. =		13.8 x Qty. =		N/A x Qty. =	
<b>Fibre Channel Infrastructure</b>								
A3511A/AZ	Qty. [ ]	x Qty. =	4 x Qty. =		1.5 x Qty. =		2.5 x Qty. =	
A3724A/AZ	Qty. [ ]	x Qty. =	1 x Qty. =		0.6 x Qty. =		1.2 x Qty. =	
A4839A/AZ	Qty. [ ]	x Qty. =	1 x Qty. =		0.6 x Qty. =		1.2 x Qty. =	
<b>DTCs (DTC options may require additional space. See Configuration Guide.)</b>								
16TN	Qty. [ ]	.060 x Qty. =	2 x Qty. =		0.3 x Qty. =		0.5 x Qty. =	
64-port	Qty. [ ]	.240 x Qty. =	8 x Qty. =		1.0 x Qty. =		2.0 x Qty. =	
72MX	Qty. [ ]	.260 x Qty. =	3 x Qty. =		1.1 x Qty. =		2.2 x Qty. =	
<b>Expansion Module</b>								

Rackmountable Products	kVA Units	Total kVA	EIA Units	Total EIA	Amps for 240V Cabinet	Total Amps	Amps for 120V Cabinet	Total Amps
HP-PB I/O for T500 Qty. [ ]	.720 x Qty. =		7 x Qty. =		3.0 x Qty. =		6.0 x Qty. =	
<b>UPSs (Max – 1 UPS per cabinet)</b>								
1.3 kVA Qty. [ ]			6 x Qty. =					
1.8 kVA Qty. [ ]			9 x Qty. =					
3.0 kVA Qty. [ ]			12 x Qty. =					
5.5 kVA Qty. [ ]			15 x Qty. =					
<b>TOTALS</b>	<b>kVA =</b>		<b>EIA Units =</b>		<b>Amps (240V) =</b>		<b>Amps (120V) =</b>	

\* See special cabinet notes in the Model 30/FC section of Chapter 4 when mounting a Model 30/FC in the bottom of a 1.6 m cabinet.

Cabinet	1.6 meter	1.25 meter	2.0 meter
EIA Units	33	25	41
Amps (120V or 240V)	16	16	16, 32 (must choose option)
Receptacles per PDU (Maximum 6 PDUs per cabinet)	7 IEC-320 C13 1 IEC-320 C19	Same as 1.6m	Same as 1.6m

1. List desired quantities of rackmountable products.
2. If a UPS is desired, calculate total kVA and select appropriate UPS. If exceed 3.0 kVA, an additional cabinet and UPS is required. The 3.0 kVA UPS is recommended for the high availability storage system.
3. Calculate total EIA units.
4. Determine cabinet voltage option and calculate total amps in the appropriate column.
5. Verify that there are enough receptacles to accommodate all desired products. Note: G-, H-, I-Class servers require two receptacles, the Model 12L disk array can require up to two receptacles, and the Model 12H disk array can require up to three receptacles. All other devices require one receptacle.
6. Using totals from worksheet, determine proper cabinet sizing and quantities.

## Ordering Systems

The SSP# is the first product number and must be selected on E-Class, T-Class, and EPS servers to denote the SSP bundle. K-Class and D-Class Enterprise Servers do not require a selection of a separate SSP# because the server product number is used as the SSP#.

The following notes may be useful when ordering systems:

### Memory Modules

- Higher density memory modules allow more room for higher system RAM capacity and/or future expansion.
- Typically, each RAM module uses two SIMM slots and comprises two SIMM cards.
- Total SIMM slots will vary by system; be sure to observe “maximum” SIMM slot configuration when ordering memory.

### Internal Disk Drives

- Refer to Ordering and Configuration Guide diagrams for maximum disk capacity.
- Generally, several lower-capacity disk drives yield better system performance than a few large-capacity disk drives. Large-capacity disk drives typically offer lower cost per MB and higher total internal SPU capacities.
- Refer to Chapter Four for information on external disk drives.

### Removable Media Drives

- CD-ROM is HP’s preferred method for software distribution as it is the least expensive way for customers to receive software products.
- Digital Data Storage Digital Audio Tape (DDS DAT) is the highest density backup media. DDS DAT drives with hardware data compression are available.
- Data compression can increase the amount of data stored on a single DDS DAT cartridge. The actual capacity of data stored will vary depending on the characteristics of the data.
- Data compression will reduce backup time. It can also reduce or eliminate the need to change tapes during a backup.
- Refer to Chapter Four for information on external removable media drives.

### I/O and Networking Cards

- Additional I/O cards and DTCs are listed in Chapter Four. Additional networking cards are listed in Chapter Seven.
- See the Configuration Guide for possible configuration constraints.



## HP 9000 Enterprise Server Upgrade Quick Reference Tables

All HP 9000 Enterprise Server upgrades require the return of replaced CPU boards and components from upgraded systems.

### D-Class

	Upgrade from	Upgrade to	SSP #	Product #	Opt #
	<b>Dx00</b>	Dx10		A3377A	850
		Dx30		A3585A	850
		Dx50/1-way		A3378A	850
		Dx50/2-way		A3379A	850
		Dx60/2-way		A3428A	850
		Dx70/1-way		A3565A	850
		Dx70/2-way		A3595A	850
		Dx80/1-way		A3720A	850
		Dx80/2-way		A3721A	850
		Dx90/1-way		A4907A	850
		Dx90/2-way		A4908A	850
		<b>Dx10</b>	Dx30		A3585A
	Dx50/1-way			A3378A	851
	Dx50/2-way			A3379A	851
	Dx60/2-way			A3428A	851
	Dx70/1-way			A3565A	851
	Dx70/2-way			A3595A	851
	Dx80/1-way			A3720A	851
	Dx80/2-way			A3721A	851
	Dx90/1-way			A4907A	851
	Dx90/2-way			A4908A	851
	<b>Dx20</b>	Dx30		A3585A	855
		Dx60/2-way		A3428A	855
		Dx70/1-way		A3565A	855
		Dx70/2-way		A3595A	855
		Dx80/1-way		A3720A	855
		Dx80/2-way		A3721A	855
		Dx90/1-way		A4907A	855
		Dx90/2-way		A4908A	855
	<b>Dx30</b>	Dx60/2-way		A3428A	856
		Dx70/1-way		A3565A	856
		Dx70/2-way		A3595A	856
		Dx80/1-way		A3720A	856
		Dx80/2-way		A3721A	856
		Dx90/1-way		A4907A	856
		Dx90/2-way		A4908A	856
	<b>Dx50/1-way</b>	Dx50/2-way		A3379A	852
		Dx60/2-way		A3428A	852
		Dx70/1-way		A3565A	852
		Dx70/2-way		A3595A	852
		Dx80/1-way		A3720A	852
		Dx80/2-way		A3721A	852
		Dx90/1-way		A4907A	852
		Dx90/2-way		A4908A	852
	<b>Dx50/2-way</b>	Dx60/2-way		A3428A	853
		Dx70/2-way		A3595A	853
		Dx80/2-way		A3721A	853
		Dx90/2-way		A4908A	853
	<b>Dx60/2-way</b>	Dx70/2-way		A3595A	854
		Dx80/2-way		A3721A	854

Upgrade from	Upgrade to	SSP #	Product #	Opt #
	Dx90/2-way		A4908A	854
<b>Dx70/1-way</b>	Dx70/2-way		A3595A	857
	Dx80/1-way		A3720A	857
	Dx80/2-way		A3721A	857
	Dx90/1-way		A4907A	857
	Dx90/2-way		A4908A	857
	<b>Dx70/2-way</b>	Dx80/2-way		A3721A
Dx90/2-way			A4908A	858
<b>Dx80/1-way</b>	Dx80/2-way		A3721A	859
	Dx90/1-way		A4907A	859
	Dx90/2-way		A4908A	859
<b>Dx80/2-way</b>	Dx90/2-way		A4908A	860
<b>Dx90/1-way</b>	Dx90/2-way		A4908A	861
<b>D2xx Chassis</b>	D3xx Chassis		A3383A	
	Add Remote Management Port			001
	Add Fast/Wide/Differential SCSI-2 Port			002

Note: Must have a D3xx server or be purchasing the D3xx Chassis Upgrade (A3383A) to be able to upgrade to Dx90/1-way and Dx90/2-way processors.

### E-Class

Upgrade from	Upgrade to	SSP #	Product #	Opt #
<b>E25</b>	E35		A3132A	850
	E45		A3133A	850
	E55		A3241A	850
<b>E35</b>	E45		A3133A	851
	E55		A3241A	851
<b>E45</b>	E55		A3241A	852

### K-Class

Upgrade from	Upgrade to	SSP #	Product #	Opt #
<b>K100</b>	K220		A3219A	850
	K260		A3188A	850
	K360		A5160A	850
	K370		A3680B	850
	K380		A4880B	850
	K420		A3230A	850
	K460		A3189A	850
	K570		A3687A	850
	K580		A4881A	850
<b>K200</b>	K220		A3219A	851
	K260		A3188A	851
	K360		A5160A	851
	K370		A3680B	851
	K380		A4880B	851
	K420		A3230A	851
	K460		A3189A	851
	K570		A3687A	851
	K580		A4881A	851
<b>K210</b>	K220		A3219A	852
	K260		A3188A	852
	K360		A5160A	852
	K370		A3680B	852
	K380		A4880B	852

**Chapter 2**  
**Reference Information on TradeUp**



	Upgrade from	Upgrade to	SSP #	Product #	Opt #
		K420		A3230A	852
		K460		A3189A	852
		K570		A3687A	852
		K580		A4881A	852
	<b>K220</b>	K260		A3188A	856
		K360		A5160A	856
		K370		A3680B	856
		K380		A4880B	856
		K420		A3230A	856
		K460		A3189A	856
		K570		A3687A	856
		K580		A4881A	856
	<b>K250</b>	K260		A3188A	858
		K360		A5160A	858
		K370		A3680B	858
		K380		A4880B	858
		K460		A3189A	858
		K570		A3687A	858
		K580		A4881A	858
	<b>K260</b>	K360		A5160A	859
		K370		A3680B	859
		K380		A4880B	859
		K460		A3189A	859
		K570		A3687A	859
		K580		A4881A	859
	<b>K360</b>	K370		A3680B	865
		K380		A4880B	865
		K460		A3189A	865
		K570		A3687A	865
		K580		A4881A	865
	<b>K370A</b>	K380		A4880B	862
		K570		A3687A	862
		K580		A4881A	862
	<b>K370B</b>	K380		A4880B	872
		K570		A3687A	872
		K580		A4881A	872
	<b>K380A</b>	K580		A4881A	864
	<b>K380B</b>	K580		A4881A	874
	<b>K400</b>	K420		A3230A	854
		K460		A3189A	854
		K570		A3687A	854
		K580		A4881A	854
	<b>K410</b>	K420		A3230A	855
		K460		A3189A	855
		K570		A3687A	855
		K580		A4881A	855
	<b>K420</b>	K460		A3189A	857
		K570		A3687A	857
		K580		A4881A	857
	<b>K450</b>	K460		A3189A	860
		K570		A3687A	860
		K580		A4881A	860
	<b>K460</b>	K570		A3687A	861
		K580		A4881A	861
	<b>K570</b>	K580		A4881A	863



**T-Class**

	Upgrade from	Upgrade to	SSP #	Product #	Opt #
	T500	T600 Choose appropriate options		A3598A	
	T520	Additional T520 CPUs Choose appropriate options	A3034A	A3358A	
		T600 Choose appropriate options		A3597A	
	T600	Additional T600 CPUs		A3596A	

**V-Class**

	Upgrade from	Upgrade to	SSP#	Product #	Opt. #
	V2200	V2250		A5083A, V2250 upgrade products A5066A, Additional V2250 CPU	850 - One V2250 CPU with upgrade materials
				A3727AN with option 001: return credit for V2200 CPU	



## Subchapter 3.1—Input/Output Interface Adapters

This chapter provides ordering information for the HP 9000 Enterprise Server input and output (I/O) interface adapters. I/O interfaces are the crucial links that connect the computer system to its external peripheral devices, and connect two or more computer systems together.

I/O interface adapters are organized in this chapter by their function (for example, Mass Storage, Networking, etc.), technology (SCSI, LAN, etc.), and bus type (PCI, HSC, EISA, etc.). For example, to quickly locate a FDDI PCI LAN product, go to Section 3.3 LAN Adapters and Related Software. In the Product Numbers column of the ordering table, locate the FDDI technology section. Within each technology group the product numbers are further grouped by bus type.

Hewlett Packard provides a variety of interface buses in its HP 9000 servers, including PCI, HSC, HP-PB, and EISA. Chapter 3 of the HP 9000 Enterprise Servers Configuration Guide includes a matrix of I/O adapters, interface busses, and servers. Refer to the matrix to determine which products to order to match your configuration of server and interface bus.

For server support and configuration information, see the HP 9000 Enterprise Servers Configuration Guide.

### Mass Storage Adapters—SCSI, Fibre Channel, RAID

Mass storage adapters connect the computer system to mass storage devices such as disks, tapes, and RAID systems. HP 9000 servers support SCSI, Fibre Channel, and RAID I/O adapters. **See Section 3.2** for mass storage adapter pricing.

### Networking Adapters—LAN, WAN, HA WAN (ACC)

Hewlett Packard offers a number of high-performance LAN, WAN, and High Availability WAN (ACC) networking solutions for use with HP 9000 servers. **See Section 3.3** for networking adapter pricing.

### Multi-Function Adapters—SCSI/LAN Combination Cards

Combination adapters combine two or more I/O functions on a single card. **See Section 3.4** for combination adapter pricing.

### Multiplexers, Secure Socket Layer (SSL) Accelerators

Multiplexers combine a number of messages simultaneously over the same communications channel. HP 9000 multiplexer adapters provide RS-232 and RS-422 serial connections for modems and terminals. Secure Socket Layer Accelerator provides a hardware performance and data protection solution to the problem of Secure Socket Layer computation. See **Section 3.5** for pricing of these adapter cards.

## Subchapter 3.2—Mass Storage Adapters

Please see section 3.2 in the HP 9000 Enterprise Servers Configuration Guide for complete descriptions of the host platforms and busses that support these storage products.

### SCSI Interface Adapters

Description	Product #	Opt. #	Price
<b>SCSI</b>			
<ul style="list-style-type: none"> <li>PCI FWD SCSI-2 card for HP9000 Servers</li> </ul>	A4800A		
Factory Integration		OD1	
<ul style="list-style-type: none"> <li>Single Port Ultra 2 SCSI HBA (PCI Bus)</li> </ul>	A5149A		
Factory Integration		OD1	
Release Notes		AVN	
<ul style="list-style-type: none"> <li>Dual Port Ultra 2 SCSI (PCI Bus) adapter</li> </ul>	A5150A		
Factory Integration		OD1	

Description	Product #	Opt. #	Price
Release Notes		AVN	
• Dual Port FWD SCSI (PCI Bus) Adapter	A5159A		
Factory Integration		OD1	
Release Notes		AVN	
• PCI 2 Port 100Base-T 2 Port Ultra2 SCSI	A5838A		
See Multi-Function Adapters in Section 3.4			
NOTE: A5149A, A5150A, A5159A, and A5838A do not include a terminator. See Config Guide.			
• HSC FWD SCSI-2 Interface	A2969A		
Factory Integration		OD1	
• HP-HSC SCSI card for T600 only	A3644A		
• FWD SCSI-2 Controller (HP-HSC Bus)	A4107A		
Factory Integration		OD1	
• HP-PB SE SCSI-2 Centronics (Parallel) Host Adapter	28655A		
Includes one Centronics port for HP-PB, single-ended SCSI-2 I/O card with parallel port, one meter SCSI cable, two meter Centronics cable, SCSI bus terminator and a reference manual.			
Replace 1 meter with 2.5 meter SCSI cable		ALX	
Replace 1 meter with 2 meter SCSI cable		AFJ	
• HP-PB FWD SCSI-2 Host Adapter	28696A		
HP-PB native card; uses 2 slots. Requires HP-UX 9.04. Includes 2.5 meter cable and a terminator.			
Delete 2.5 m cable (M-M)		001	
Add 0.9 m cable (M-M)		002	
Add 5.0 meter cable (M-M)		AF1	
Add 10.0 m cable (M-M)		AF8	
Add 2.5 m extension cable (F-M)		003	
Add 5.0 m extension cable (F-M)		004	
Add 10.0 m extension cable (F-M)		005	
Add 2.0 m V-cable (for switchover) (M-M-M)		006	
• EISA Fast SE SCSI-2 Host Adapter	A2679A		
Factory Integration		OD1	

## Fibre Channel Products

Description	Product #	Opt. #	Price
• Upgrade Credit when ordering A5158A and returning A3740A	A3740AN		
		001	
• PCI 2X Fibre Channel Adapter	A5158A		
Factory integrated		OD1	
Release Notes		AVN	
• HSC Fibre Channel Adapter	A6685A		
Release Notes		AVN	
• Upgrade Credit when ordering A6685A and returning A3404A	A3404AN		
		001	
• HSC eff Fibre Channel Adapter	A6684A		
Release Notes		AVN	
• Upgrade Credit when ordering A6684A and returning A3591B	A3591BN		
		001	
• HSC Fibre Channel 1063 Mbps interface card	A3404A		
• HSC EISA Form Factor Fibre Channel 1063 Mbps interface card	A3591B		
• HSC Fibre Channel 1063 Mbps interface card	A3636A		

## RAID Interface Adapters

	Description	Product #	Opt #	Price
•	RAID 4Si, PCI 4 port Ultra2 SCSI RAID	A5856A		
	Instant Ignition / Factory Integration		OD1	
	Release Notes and Quick Install Card		AVN	

## Subchapter 3.3—LAN/WAN Adapters and Related Software

Please see Subchapter 3.3 in the HP 9000 Enterprise Servers Configuration Guide for complete descriptions of the host platforms and busses that support these networking products.

### LAN Adapters and Related Software

	Description	Product #	Opt #	Price
<b>Gigabit Ethernet</b>				
•	PCI Gigabit Ethernet 1000Base-SX Adapter	A4926A		
	Release Notes		AVN	
	1000Base-SX adapter for workstations		AHN	
	Factory Installation		OD1	
•	PCI 1000Base-T Gigabit Ethernet LAN adapter	A4929A		
	Factory Installation		OD1	
	1000Base-T Adapter for Workstation		AHN	
	Release Notes		AVN	
•	HSC Gigabit Ethernet 1000Base-SX	A4924A	001	
	Note: Performance of HSC Gigabit Ethernet is considerably lower than line speed. Actual performance will vary depending on configuration, application and user load.			
	Release Notes		AVN	
	Factory Installation		OD1	
•	HSC EISA Form Factor Gigabit Ethernet 1000Base-SX	A4925A		
	Note: Performance of HSC Gigabit Ethernet is considerably lower than line speed. Actual performance will vary depending on configuration, application and user load.			
	Release Notes		AVN	
	Factory Installation		OD1	
<b>Ethernet/Fast Ethernet</b>				
•	PCI 10/100Base-T LAN adapter (note: Usage restricted to Itanium Servers running HP-UX)	A6792A		
	Release Notes and other product documents		AVN	
	Factory Integration (note: Only available on Itanium Servers running HP-UX)		OD1	
•	PCI 10/100Base TX LAN adapter	A5230A		
	Release Notes		AVN	
	Factory Integration		OD1	
•	PCI 100Base-TX Four Port	A5506B		
	Factory Integration		OD1	
	Release Notes		AVN	
•	PCI 2 Port 100BaseT/2 Port Ultra2 SCSI Combination Adapter. See Multi-Function Adapters in Subchapter 3.4 for ordering information.	A5838A		
•	PCI 10/100Base-T LAN Adapter.	A3738A		
	Factory Installation		OD1	
•	PCI 100Base-FX. No license or Manuals needed.	A5172A		
	Factory Integration		OD1	
•	HSC 10/100Base-T 2 Port LAN Adapter	J3514A	001	
	HSC 100Base-FX Fiber Product LAN adapter		002	
	Factory Integration		OD1	



Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>HSC EISA Form Factor 100Base-T LAN Adapter Factory installation</li> </ul>	J3515A	OD1	
<ul style="list-style-type: none"> <li>HSC EISA Form Factor 100Base-T 2 Port LAN Adapter HSC EISA Form Factor Fiber based 100Base-FX product Factory installation</li> </ul>	J3516A	001 002 OD1	
<ul style="list-style-type: none"> <li>HSC 100Base-T One Port LAN Adapter For best performance (max 2 100Base-T cards/system) SEE ESP 100Base-T for T600 Factory Integration</li> </ul>	J3850A	OD1	
<ul style="list-style-type: none"> <li>HP-PB 10/100Base-T LAN Adapter Note: performance is significantly less than 100 Mbps. For higher performance, use HSC. Wiring: UTP Category 5, 100Base-TX Factory integrated</li> </ul>	A3495A	001 OD1	
<ul style="list-style-type: none"> <li>10/100Base-T LAN Adapter manuals</li> </ul>	J1627AA		
<ul style="list-style-type: none"> <li>10/100Base-T HSC LAN Adapter Manuals</li> </ul>	J3622AA		
<b>Automatic Port Aggregation</b>			
<ul style="list-style-type: none"> <li>HP Auto-Port Aggregation Software. Supported on HSC and PCI 100 Mbps and 1000Mbps LAN Adapters. HP-UX 11.0 and above. Must order one License-to-Use (LTU). Release Notes Server License Workstation License Instant Ignition</li> </ul>	J4240AA	AVN 2A1 AHN OD1	
<ul style="list-style-type: none"> <li>Automatic Port Aggregation LAN Monitor, 10.20 Media Release Notes</li> </ul>	J5080AA	AVN	
<b>FDDI</b>			
<ul style="list-style-type: none"> <li>PCI FDDI Dual LAN Adapter (Not available after May 31, 2000)</li> </ul>	A3739A		
<ul style="list-style-type: none"> <li>FDDI Universal PCI Adapter (Available June 1, 2000) SC to MIC Cable Adapter (1 Pair) Factory Installation (for 800 servers only) Release Notes</li> </ul>	A3739B	001 OD1 AVN	
<ul style="list-style-type: none"> <li>HSC FDDI LAN Adapter HSC FDDI Adapter HSC FDDI Adapter for T600 Factory installation</li> </ul>	A3722A	001 011 OD1	
<ul style="list-style-type: none"> <li>HSC EISA Form Factor FDDI LAN Adapter Factory installation</li> </ul>	A3723A	OD1	
<ul style="list-style-type: none"> <li>HP-PB FDDI/9000 for Servers Upgrade Credit for Tier 1 SPUs Upgrade Credit for Tier 2 SPUs Integrated into Expansion Cabinet System License for Tier 1 SPUs System License for Tier 2 SPUs System License for Tier 3 SPUs Factory Installed on Tier 1 Servers Factory Installed on Tier 2 Servers Factory Installed on Tier 3 Servers Release Notes Add single-attach station interface card Add dual-attach station interface card</li> </ul>	J2157B	OGR OC8 OD2 AHO AE5 AEP AU2 AU3 AU4 AVN UG2 UGU	
<ul style="list-style-type: none"> <li>FDDI Backup Media</li> </ul>	J2658BA		
<b>Token Ring</b>			
<ul style="list-style-type: none"> <li>PCI Token Ring 4/16/100Mbps Adapter Release Notes Factory Integration</li> </ul>	A5783A	AVN OD1	
<ul style="list-style-type: none"> <li>EISA Token Ring hardware Instant Ignition: factory installed</li> </ul>	J2165B	OD1	
<ul style="list-style-type: none"> <li>Token Ring Backup Media for Token-Ring/9000</li> </ul>	J2250B		

Description	Product #	Opt #	Price
• Token Ring PCI Manuals	J4242AA		
• Token Ring Manual for HP-PB and EISA products	J1619AA		
• Token Ring EISA Backup Media	J2638BA		
• HP Token Ring/9000 LTU (HP-PB Adapter)	J2166B		
Upgrade Credit for Tier 2 SPUs		OC8	
Upgrade Credit for Tier 1 SPUs		OGR	
Integrated into Expansion Cabinet		OD2	
System License for Tier 1 SPUs		AH0	
System License for Tier 2 SPUs		AE5	
System License for Tier 3 SPUs		AEP	
Factory Installed on Tier 1 Servers		AU2	
Factory Installed on Tier 2 Servers		AU3	
Factory Installed on Tier 3 Servers		AU4	
<b>HIPPI</b>			
• PCI Serial HIPPI 800 Adapter	A5801A		
Release Notes		AVN	
<b>Hyper Fabric</b>			
• PCI HyperFabric2 fiber adapter (note: Used for connection to the HP Hyperfabric2 Switch. Also can be used for point-to-point configs)	A6386A		
Instant Ignition: factory installed		OD1	
Release Notes and other product documents		AVN	
• HyperFabric2 8 port fiber switch chassis (note: Includes chassis and 8 fiber ports (without switch intelligence. An additional switch module is required to create a functional switch))	A6384A		
Release Notes and other product documents		AVN	
Factory racked Hyperfabric2 switch chassis (note: Includes chassis and 8 fiber ports (without switch intelligence). An additional switch module is required to create a functional switch)	A6384AZ		
Release Notes and other product documents		AVN	
• HyperFabric2 8 port fiber switch module (note: When this module is added to the switch chassis, it creates a high speed 16-port fiber Hyperfabric2 switch)	A6388A		
Instant Ignition: factory installed		OD1	
Release Notes and other product documents		AVN	
• HyperFabric2 4 port copper switch module (note: When this module is added to the switch chassis, it creates a 12 port HyperFabric switch (4 copper ports and 8 fiber ports))	A6389A		
Instant Ignition: factory installed		OD1	
Release Notes and other product documents		AVN	
• 2m Duplex LC/LC 50/125 M/M Optical for HyperFabric2 fiber connections	C7524A		
• 16m Duplex LC/LC 50/125 M/M Optical for HyperFabric2 fiber connections	C7525A		
• 50m Duplex LC/LC 50/125 M/M Optical for HyperFabric2 fiber connections	C7526A		
• 200m Duplex LC/LC 50/125 M/M Optical for HyperFabric2 fiber connections	C7527A		
Note: for Hyperfabric2 (A6389A) copper connections, see A4892A below			
• PCI Hyperfabric 1X Adapter Card	A4919A		
Instant Ignition: factory installed		OD1	
Release Notes		AVN	
• PCI Hyperfabric 4X adapter card	A6092A		
Instant Ignition: factory installed		OD1	
Release Notes		AVN	
• HSC Hyperfabric Card	A4920A		
Instant Ignition: factory installed		OD1	
Release Notes		AVN	
• HSC EISA Form Factor Hyperfabric Card	A4921A		
Instant Ignition: factory installed		OD1	
Release Notes		AVN	
• HP9000 Enterprise Hyperfabric 16 Port Switch	A4891A		
Instant Ignition: factory installed		OD1	
• Hyperfabric node support cable for copper connections	A4892A		
Instant Ignition: factory installed		OD1	
35 Ft. HyperFabric Cable		800	

Description	Product #	Opt #	Price
60 Ft. Hyperfabric Cable		801	

### WAN Adapters, IBM Communications, and Related Software

Description	Product #	Opt #	Price
<b>ATM</b>			
<ul style="list-style-type: none"> <li>PCI ATM/622 Mbps Adapter: ATM OC 12 speed; Multimode Fiber Interface with SC Connector Factory Integration Release Notes and Documentation</li> </ul>	A5483A	OD1 AVN	
<ul style="list-style-type: none"> <li>PCI OC 3 MultiMode Fiber Interface with SC Connector Factory Integration Release Notes and Documentation</li> </ul>	A5513A	OD1 AVN	
<ul style="list-style-type: none"> <li>PCI OC 3 UTP5 Interface Factory Integration Release Notes and Documentation</li> </ul>	A5515A	OD1 AVN	
<ul style="list-style-type: none"> <li>HSC EISA Form Factor ATM/155 Mbps HP- Adapter Hardware OC3 Multi-Mode Fiber Interface OC3 UTP5 interface Factory Integration Release Notes and Documentation</li> </ul>	J2499A	001 002 OD1 AVN	
<ul style="list-style-type: none"> <li>ATM 155 Mbps HP-HSC Adapter OC3 Multi-Mode Fiber Interface UTP5 Interface for K-Class Servers OC3 Single Mode Fiber Interface K Class OC3 Multi Mode Fiber Interface T600 UTP5 Interface for T600 Servers OC3 Single Mode Fiber Interface T600 Factory integrated Release Notes and Documentation</li> </ul>	J2469A	001 002 004 011 012 014 OD1 AVN	
<ul style="list-style-type: none"> <li>HSC EISA Form Factor ATM/622 Mbps Adapter Hardware OC12 MultiMode Fiber Interface with SC Connector Factory Integration Release Notes and Documentation</li> </ul>	J3573A	001 OD1 AVN	
<b>PSI</b>			
<ul style="list-style-type: none"> <li>PCI PSI bus Dual Port Card. RS-232 interface cable V.35 interface cable RS-449 interface cable X.21/V11 interface cable RS-530 interface cable Factory installation</li> </ul>	J3525A	1AT 1AU AFQ AFR 001 OD1	
<ul style="list-style-type: none"> <li>PCI High Performance PSI bus Four Port Card RS-232 interface cable V.35 interface cable RS-449 interface cable X.21/V11 interface cable RS-530 interface cable Factory installation</li> </ul>	J3526A	1AT 1AU AFQ AFR 001 OD1	
<ul style="list-style-type: none"> <li>HP-PB High Speed PSI bus Card. High performance serial interface card (single port). Line speeds up to 256 kbps. Operates with J2793B X.25 software product. HP-PB PSI card for HP 9000 Enterprise Servers (order if you need hardware) RS-232 interface cable V.35 interface cable RS-449 interface cable</li> </ul>	J2792A	1AT 1AU AFQ	

Description	Product #	Opt #	Price
X.21/V11 interface cable		AFR	
Factory installation		OD1	
<ul style="list-style-type: none"> <li>EISA High Speed PSI -bus Card</li> </ul>	J2794A		
High performance serial interface card (single port). Line speeds up to 1.5 Mbps with RS-449; 256 Kbps with RS-232 or V.35 interfaces. Operates with J2793B X.25 software product.			
RS-232 interface cable		1AT	
V.35 interface cable		1AU	
RS-449 interface cable		AFQ	
Factory installation		OD1	
<ul style="list-style-type: none"> <li>EISA PSI bus Two Port Card.</li> </ul>	J2815A		
Dual port, low-cost serial interface card. Line speeds up to 256 kbps with X.21 and 64 kbps with RS-232 interface.			
RS-232 interface cable		1AT	
X.21/V11 interface cable.		AFR	
Additional cables for the second port can be ordered separately using P/N J2815-60005 for V.21/V11 or P/N J2815-60006 for RS-232 interface cable.			
Factory installation		OD1	
<b>X.25</b>			
<ul style="list-style-type: none"> <li>X.25/9000 SW Media</li> </ul>	J2793B		
Operates with J2792A, J3525A, J3526A, J2815A or J2794A hardware card. Instant ignition for this product is only available on HP 9000 Servers. Customers using HP 9000 workstations cannot order option OD1. Must order either OD1 or AHN. AHN and OD1 are mutually exclusive.			
Upgrade from Tier 1 to Tier 2		301	
Upgrade from Tier 2 to Tier 3		302	
System License for Tier 2 systems		AE5	
System License for Tier 3 systems		AEP	
System License for Tier 1 systems		AHO	
HP 9000 workstation license		AHN	
Factory Integrated		OD1	
<ul style="list-style-type: none"> <li>X.25/9000 Hardcopy Manuals</li> </ul>	B1053AA		
<b>Frame Relay</b>			
<ul style="list-style-type: none"> <li>Frame Relay Software.</li> </ul>	J3529A		
Requires prior or concurrent purchase of the J2792 HP-PB, J2794A EISA, J2815A EISA, J3525A PCI or J3526A PCI card.			
Available with HP-UX 10.30 and 11.0 on HP9000 servers only.			
Must choose processor RTU license Processor license Options.			
Tier 1		AHO	
Tier 2		AE5	
Tier 3		AEP	
Instant Ignition		OD1	
Release Notes		AVN	
<b>SNA</b>			
<ul style="list-style-type: none"> <li>SNAplus2 Link Server LTU.</li> </ul>	J2720BA		
For SNAplus2 Link Manuals use J2740AA. SNAplus2 Link interface cards options #001, #002, #1AT, or #1AU depending on type of SPU.			
System license for HP 9000 tier 1 SPUs		AHO	
System license for HP 9000 tier 2 SPUs		AE5	
System license for HP 9000 tier 3 SPUs		AEP	
Upgrade credit for tier 1 SPUs		OGR	
Upgrade credit for tier 2 SPUs		OC8	
Factory integrated. Can only ordered with an SPU		OD1	
Release Notes		AVN	
<ul style="list-style-type: none"> <li>SNAplus2 APPN End Node Server LTU.</li> </ul>	J2721BA		
Requires previous or concurrent purchase of SNAplus2 Link (J2720AA or J2720BA) product. For SNAplus2 APPN End Node Manuals use J2741AA.			
System license for HP 9000 tier 1 SPUs		AHO	
System license for HP 9000 tier 2 SPUs		AE5	

Description	Product #	Opt #	Price
System license for HP 9000 tier 3 SPUs		AEP	
Upgrade credit for tier 1 SPUs		OGR	
Upgrade credit for tier 2 SPUs		OC8	
Factory integrated. Can only ordered with an SPU		OD1	
Release Notes		AVN	
<ul style="list-style-type: none"> <li>• SNAPLus2 3270/3179G Server LTU.</li> </ul>	J2722BA		
Requires previous or concurrent purchase of SNAPLus2 Link (J2720AA or J2720BA) product. For SNAPLus2 3270/3179G Manuals use J2742AA.			
System license for HP 9000 tier 1 SPUs		AH0	
System license for HP 9000 tier 2 SPUs		AE5	
System license for HP 9000 tier 3 SPUs		AEP	
Upgrade credit for tier 1 SPUs		OGR	
Upgrade credit for tier 2 SPUs		OC8	
Factory integrated. Can only ordered with an SPU		OD1	
Release Notes		AVN	
<ul style="list-style-type: none"> <li>• SNAPLus2 RJE Server LTU.</li> </ul>	J2723BA		
Requires previous or concurrent purchase of SNAPLus2 Link (J2720AA or J2720BA) product. For SNAPLus2 RJE Manuals use J2743AA.			
System license for HP 9000 tier 1 SPUs		AH0	
System license for HP 9000 tier 2 SPUs		AE5	
System license for HP 9000 tier 3 SPUs		AEP	
Upgrade credit for tier 1 SPUs		OGR	
Upgrade credit for tier 2 SPUs		OC8	
Factory integrated. Can only ordered with an SPU		OD1	
Release Notes		AVN	
<ul style="list-style-type: none"> <li>• SNAPLus2 API Server LTU.</li> </ul>	J2724BA		
Requires previous or concurrent purchase of SNAPLus2 Link (J2720AA or J2720BA) product. For SNAPLus2 API Manuals use J2744AA.			
System license for HP 9000 tier 1 SPUs		AH0	
System license for HP 9000 tier 2 SPUs		AE5	
System license for HP 9000 tier 3 SPUs		AEP	
Upgrade credit for tier 1 SPUs		OGR	
Upgrade credit for tier 2 SPUs		OC8	
Factory integrated. Can only ordered with an SPU		OD1	
Release Notes		AVN	
<ul style="list-style-type: none"> <li>• TN3270 System LTU</li> </ul>	J2636BA		
<ul style="list-style-type: none"> <li>• SNAPLus2 link Manual</li> </ul>	J2740AA		
SNAPLus2 Migration Manual		001	
HP-UX 10.10 SNAPLus2 Manual		003	
HP-UX 10.20 and later SNAPLus2 Manual		004	
<ul style="list-style-type: none"> <li>• SNAPLus2 APPN End Node Manuals</li> </ul>	J2741AA		
SNAPLus2 Migration Manual		001	
HP-UX 10.10 SNAPLus2 Manual		003	
HP-UX 10.20 and later SNAPLus2 Manual		004	
<ul style="list-style-type: none"> <li>• SNAPLus2 3270/3179G Manuals</li> </ul>	J2742AA		
SNAPLus2 Migration Manual		001	
HP-UX 10.10 SNAPLus2 Manual		003	
HP-UX 10.20 and later SNAPLus2 Manual		004	
<ul style="list-style-type: none"> <li>• SNAPLus2 RJE Manuals</li> </ul>	J2743AA		
SNAPLus2 Migration Manual		001	
HP-UX 10.10 SNAPLus2 Manual		003	
HP-UX 10.20 and later SNAPLus2 Manual		004	
<ul style="list-style-type: none"> <li>• SNAPLus2 API Manuals</li> </ul>	J2744AA		
SNAPLus2 Migration Manual		001	
HP-UX 10.10 SNAPLus2 Manual		003	
HP-UX 10.20 and later SNAPLus2 Manual		004	

## HA WAN Adapter – X.25, Multi-port (ACC)

There are three steps to order a complete HP ACC product offering high availability X.25, multi-port capability:

1. Select software.
  - HP ACC Software – HP-UX 11.x
2. Select hardware.
  - HP ACC Hardware – PCI-based Systems
3. Select Connection Distribution Panel and cable
  - HP ACC Hardware – PCI-based Systems

## HP ACC Software – HP-UX 11.x

Description	Product #	Opt. #	Price
<b>HP ACC Software Bundle</b>			
Must order one software protocol license per system.			
HP ACC and X.25/9000 Software Bundle License.			
Includes HP ACC Software Protocol (both J2793B High Performance X.25/9000 and ACC X.25/9000 Link Software) and HP ACC Base Software. HP ACC Card is not included.			
• Processor License Option (Must order one)	Z7476AA		
Tier 1 –L-Class, A-Class		AH0	
Tier 2 –N-Class		AE5	
• Manuals for HP ACC and X.25/9000 Software	Z7477AA		

## HP ACC Hardware – PCI-based Systems

Description	Product #	Opt. #	Price
<b>HP ACC Hardware</b>			
• HP ACC Card - 8-Port, PCI	Z7340A		
For N, L and A-class systems. V-Class is NOT currently supported. Requires prior or concurrent purchase of HP ACC Software (Z7476AA). Please refer to HP ACC Software – HP-UX 11.x.			
<b>HP ACC Connection Distribution Panels, Cables – 8-port, PCI</b>			
• Single & Dual 8 port RS-232 Panel for PCI	Z7321A		
• Single & Dual 8 port V.35 Panel for PCI	Z7322A		
• Single & Dual 8 port RS-449 Panel for PCI	Z7323A		
• Single & Dual 8 port X.21 Panel for PCI	Z7324A		
• V.35 8 port Octopus Cable	Z7326A		
• RS-232 8 port Octopus Cable	Z7327A		
• Cable for Dual connectivity	Z7325A		

## Bundled Internet Services Networking Software

See Chapter 6, HP-UX, Desktop Utilities, and High Availability for bundled network software such as Send Mail, FTP, BSD User Services, etc.

## Subchapter 3.4—Multi-Function Adapters

Please see Subchapter 3.4 in the HP 9000 Enterprise Servers Configuration Guide for complete descriptions of the host platforms and busses that support these products.

### Combination SCSI/LAN

Description	Product #	Opt. #	Price
<ul style="list-style-type: none"> <li>PCI 2 Port 100Base-T / 2 Port Ultra2 SCSI Adapter</li> </ul>	A5838A		
Instant Ignition / Factory Integration		OD1	
Release Notes and Quick Install Card		AVN	

## Subchapter 3.5—Additional I/O Add-in Adapters

Please see Subchapter 3.5 in the HP 9000 Enterprise Servers Configuration Guide for complete descriptions of the host platforms and busses that support these products.

### Multiplexers

Description	Product #	Opt. #	Price
<ul style="list-style-type: none"> <li>PCI 8 Port Serial MUX (3.3V &amp; 5.0V) Adapter</li> </ul>	A6748A		
Replace 4 ft. cable with 12 ft. cable		001	
Factory Integration		OD1	
Release Note and other product documents		AVN	
<ul style="list-style-type: none"> <li>PCI 64 Port Serial MUX (3.3V &amp; 5.0V) Adapter</li> </ul>	A6749A		
Port Module Accessory Kit: (note: Kit includes 4 ft cable, loopbacks, 1 power supply (provides power for up to 4 port modules) and a Quick Install Guide)		001	
Factory Integration		OD1	
Release Note and other product documents		AVN	
<ul style="list-style-type: none"> <li>25 ft cable, system card to port module</li> </ul>	J3595A		
<ul style="list-style-type: none"> <li>HP-PB 16 Port RS-232C Multiplexer</li> </ul>	J2094A		
<ul style="list-style-type: none"> <li>RS-422 RJ45 Port Module</li> </ul>	J2501A		
<ul style="list-style-type: none"> <li>EISA 8 port Multiplexer card (includes eight RJ-45 connectors)</li> </ul>	J2482A		
Cabling, Diagnostic and Troubleshooting Manual		OB1	
Factory Integration		OD1	
<ul style="list-style-type: none"> <li>EISA 64 port Multiplexer card</li> </ul>	J2483A		
Cabling, Diagnostic and Troubleshooting Manual		OB1	
Factory Integration		OD1	
<ul style="list-style-type: none"> <li>16 port RS-232 RJ-45 Port Module</li> </ul>	J2484A		
<ul style="list-style-type: none"> <li>16 port RS-232 DB-25 Port Module</li> </ul>	J2485A		
<ul style="list-style-type: none"> <li>RJ-45 to HP-RJ-45 16 Converters for J2484A Port Module</li> </ul>	J2488A		
<ul style="list-style-type: none"> <li>RJ-45 to HP-DB-25 1 Converter for J2484A Port Module</li> </ul>	J3830A		
<ul style="list-style-type: none"> <li>Rack mount kit for J2484A</li> </ul>	J2487A		

### HP Praesidium SpeedCard SSL Accelerator

	Description		Product #	Opt. #	Price
•	PCI Praesidium SpeedCard. Includes Cryptography card and software driver.		A5486A		
•	HSC Praesidium SpeedCard. Includes Cryptography card and software driver.		A5484A		
•	HSC Praesidium SpeedCard. Includes Cryptography card and software driver.		A5485A		





## Subchapter 4.1—Fibre Channel Infrastructure and DTCs

Description	Product #	Opt #	Price
<b>Fibre Channel for Information Storage Infrastructure Products</b>			
• HP Brocade 8-Port Fibre Channel Switch (field installable) SF21	A5625A		
• Power Supply for Brocade 2400 Switch	A5671A		
• 2 meter fibre channel cable	A3583A		
• 16 meter fibre channel cable	A3531A		
• 50 meter fibre channel cable	A3735A		
• 100 meter fibre channel cable	A3736A		
• SW GBIC	A5225A		
• LW GBIC	A5226A		
• HP Brocade 8-Port Fibre Channel Switch (factory integrated) SF21	A5625AZ		
• Power Supply for Brocade 2400 Switch	A5671A		
• 2 meter fibre channel cable	A3583A		
• 16 meter fibre channel cable	A3531A		
• 50 meter fibre channel cable	A3735A		
• 100 meter fibre channel cable	A3736A		
• SW GBIC	A5225A		
• LW GBIC	A5226A		
• HP Brocade 16-Port Fibre Channel Switch (field installable) SF21	A5624A		
• 2 meter fibre channel cable	A3583A		
• 16 meter fibre channel cable	A3531A		
• 50 meter fibre channel cable	A3735A		
• 100 meter fibre channel cable	A3736A		
• SW GBIC	A5225A		
• LW GBIC	A5226A		
• HP Brocade 16-Port Fibre Channel Switch (factory integrated) SF21	A5624AZ		
• 2 meter fibre channel cable	A3583A		
• 16 meter fibre channel cable	A3531A		
• 50 meter fibre channel cable	A3735A		
• 100 meter fibre channel cable	A3736A		
• SW GBIC	A5225A		
• LW GBIC	A5226A		
• HP Brocade 8-Port Fibre Channel Switch (field installable) SF88	A5667A		
• Power Supply for Brocade 2400 Switch	A5682A		
• 2 Optical SW GBIC's with one 50 meter optical cable	D6980A		
• 2 Optical SW GBIC's with one 100 meter optical cable	D6981A		
• 2 Copper GBIC's with one 3 meter copper cable	D6978A		
• 2 Copper GBIC's with one 5 meter copper cable	D6979A		
• 2 Copper GBIC's with one 10 meter copper cable	D7080A		
• HP QLogic 8-Port Fibre Channel Switch (field installable)	A5665A		
• 2 meter fibre channel cable	A3583A		
• 16 meter fibre channel cable	A3531A		
• 50 meter fibre channel cable	A3735A		
• 100 meter fibre channel cable	A3736A		
• SW GBIC	A5225A		
• LW GBIC	A5226A		
• HP QLogic 8-Port Fibre Channel Switch (factory integrated)	A5665AZ		
• 2 meter fibre channel cable	A3583A		
• 16 meter fibre channel cable	A3531A		
• 50 meter fibre channel cable	A3735A		
• 100 meter fibre channel cable	A3736A		
• SW GBIC	A5225A		
• LW GBIC	A5226A		
• HP Qlogic 16-Port Fibre Channel Switch (field installable)	A5666A		

Description	Product #	Opt #	Price
• 2 meter fibre channel cable	A3583A		
• 16 meter fibre channel cable	A3531A		
• 50 meter fibre channel cable	A3735A		
• 100 meter fibre channel cable	A3736A		
• SW GBIC	A5225A		
• LW GBIC	A5226A		
• HP QLogic 16-Port Fibre Channel Switch (factory integrated)	A5666AZ		
• 2 meter fibre channel cable	A3583A		
• 16 meter fibre channel cable	A3531A		
• 50 meter fibre channel cable	A3735A		
• 100 meter fibre channel cable	A3736A		
• SW GBIC	A5225A		
• LW GBIC	A5226A		
• Fibre Channel 1063 Mbps 10 port shortwave Hub (standalone or field integratable)	A3724A		
Rack Mount Kit for FC Hub		001	
16 meter fibre cable		AFY	
50 meter fibre cable		OZ5	
100 meter fibre cable		OZ6	
• Fibre Channel 1063 Mbps 10 port shortwave Hub (racked, factory integrated)	A3724AZ		
16 meter fibre cable		AFY	
50 meter fibre cable		OZ5	
100 meter fibre cable		OZ6	
• Fibre Channel 1063 Mbps 9 port shortwave, 1 port long-wave Hub (standalone or field integratable)	A4839A		
Rack Mount Kit for FC Hub		001	
16 meter fibre cable		AFY	
50 meter fibre cable		OZ5	
100 meter fibre cable		OZ6	
• Fibre Channel 1063 Mbps 9 port shortwave, 1 port long-wave Hub (factory integrated)	A4839AZ		
16 meter fibre cable		AFY	
50 meter fibre cable		OZ5	
100 meter fibre cable		OZ6	
• Fibre Channel 1063 Mbps SCSI Multiplexer (factory integrated)	A3308A		
F/W SCSI interface card (4 maximum per SCSI Multiplexer)		003	
Fibre Channel 1063 Mbps interface card (2 maximum per SCSI Multiplexer)		004	
16 meter fibre cable		AFY	
50 meter fibre cable		OZ5	
100 meter fibre cable		OZ6	
• Fibre Channel 1063 Mbps SCSI Multiplexer (racked, factory integrated)	A3511AZ		
F/W SCSI interface card (4 maximum per SCSI Multiplexer)		003	
Fibre Channel 1063 Mbps interface card (2 maximum per SCSI Multiplexer)		004	
16 meter fibre cable		AFY	
50 meter fibre cable		OZ5	
100 meter fibre cable		OZ6	
• Fibre Channel SCSI Multiplexer (including rack kit)	A3511A		
F/W SCSI interface card		003	
Fibre Channel 1063 Mbps interface card		004	
16 meter fibre cable		AFY	
50 meter fibre cable		OZ5	
• F/W SCSI adapter upgrade for SCSI Multiplexer (provides additional F/W SCSI Channel)	A3509A		
• 1063 Mbps Fibre Channel adapter upgrade for SCSI Multiplexer (provides second FC connection)	A3512A		
100 meter fibre cable		OZ6	
<b>Fibre Bridges</b>			
• HP SureStore Bridge FC 4/1 HV	A4688A		
Cable package, four each SCSI 2.5M		001	
Library installation kit including power strip, rackmount hardware, SCSI cable (bridge to controller)		002	
• HP SureStore Bridge FC 2/1 LV	A4689A		

Description	Product #	Opt #	Price
Cable package, two each SCSI 2.5M		001	
Library installation kit including power strip, rackmount hardware, SCSI cable (bridge to controller)		002	
• Library Installation Kit (includes power strip, rackmount hardware, SCSI cable (bridge to controller))	A6304A		
• SCSI Library HVD to LVD Convertor (for LVD bridge support of library robotics interface)	A6324A		
<b>DTCs</b>			
• DTC16TN Telnet Terminal Server with 16 RS-232 Ports	J2060A		
Racking kit for 1.1 or 1.6 meter cabinets		1AC	
Replace eight RJ-45 direct ports with eight DB-25 modem ports		UG5	
Replace RS-232 with 16 RS-423 ports		UG4	
• HP DTC Manager UX media for Servers	J2120A		
CD-ROM certificate		AAU	
HP-UX 10.01		APS	
HP-UX 10.10		APX	
HP-UX 10.20		APZ	
• DTC72MX Communications Server with three available slots	J2070A		
Racking kit for 1.1 or 1.6 meter cabinets		1AC	
Configure with 24 RS-232 direct connect ports with RJ-45 connectors		001	
Configure with 48 RS-232 direct connect ports with RJ-45 connectors		002	
Configure with 72 RS-232 direct connect ports with RJ-45 connectors		003	
Replace eight RJ-45 direct ports with eight DB-25 modem ports		UG5	
Configure with 24 RS-423 direct connect ports with RJ-45 connectors		UG4	
Add X.25 board with RS-232 interface		1CW	
Add X.25 board with V.35 interface		1CX	
Add Telnet Access board		004	
Add-On Products for DTC72MX:			
• 24-Port RS-232 Direct Connect Card for DTC72MX with RJ-45 connections	J2076A		
Replace eight RJ-45 direct ports with eight DB-25 modem ports		UG5	
• 24-Port RS-423 Direct Connect Card for DTC72MX	J2077A		
• X.25 Board for DTC72MX	J2079A		
RS-232 Interface		1CW	
V.35 Interface		1CX	
• Telnet Access Board for DTC72MX	J2080A		
Terminal Server for Model 12H with Fibre Channel	A4917A		
8 Port -for use with 12H and SCSI-FC MUX			
<b>Accessories for DTC16TN and DTC72MX</b>			
• Racking Kit for 5 DTC MDPs in 1.1 or 1.6 meter cabinets	J2084A		
• DTC Connection Accessories	J2085A		
8-Port RS-232 modem distribution panel with DB-25 connectors		101	
8-Port direct connect distribution panel with DB-25 connectors		102	
24-Port direct connect distribution panel with RJ-45 connectors		103	
8-Port multi-port cable with HP 3-pin connectors		104	

## Subchapter 4.2—HP Secure Web Console

Description	Product #	Opt #	Price
1.0 <b>HP Secure Web Console</b>			
HP Secure Web Console Note 1: Secure Web Console is integrated into the A-, R-, L-, and N-Class servers and does not need to be ordered with these servers. Note 2: An RS232 cable is required to connect the Secure Web Console to the server. This can be the existing console cable or a new customer supplied cable or it can be ordered from HP. The HP product number is 24542G. For more information, see the Configuration Guide, Chapter 4 Peripherals and Accessories, subchapter 4.2-HP Secure Web console	[ ] J3591A		



## Subchapter 4.3—HP Uninterruptible Power Supplies

Description	Product #	Opt #	Price
<b>HP PowerTrust UPS (Must order option 021 for use with D- and K-Class Servers.)</b>			
<ul style="list-style-type: none"> <li>PowerTrust II-LR 1.4kW/2.0kVA UPS 120V Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals Factory Racked Additional Battery Pack note: maximum 4 additional battery packs for a total of 5 Field Rack RBII Floor standing security brackets Replace Standard RS232 cable with RS232 DB9-DB25 PCI MUX cable Replace Standard RS232 cable with RS232 DB9-DB25 MDP MUX cable Replace Standard RS232 cable with RS232 DB9f-DB9m for MS NT Servers (available 6/1/00) Replace Standard power cord with 120V straight plug</li> </ul>	A1353A		
		0D1	
		001	
		002	
		003	
		25P	
		25M	
		013	
		011	
<ul style="list-style-type: none"> <li>PowerTrust II-LR 1.4kW/2.0kVA UPS 230V Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals Factory Racked Additional Battery Pack note: maximum 4 additional battery packs for a total of 5 Field Rack RBII Floor standing security brackets Replace Standard RS232 cable with RS232 DB9-DB25 PCI MUX cable Replace Standard RS232 cable with RS232 DB9-DB25 MDP MUX cable Replace Standard RS232 cable with RS232 DB9f-DB9m for MS NT Servers (available 6/1/00) Replace Standard power cord with Central European 4.5m C19/CEE7 Replace Standard power cord with International 4.5m C19/IEC309 plug Replace Standard power cord with International/European C19/unterminated</li> </ul>	A1354A		
		0D1	
		001	
		002	
		003	
		25P	
		25M	
		013	
		AWT	
		AWU	
		AW5	
<ul style="list-style-type: none"> <li>PowerTrust II-LR 2.1kW/3.0kVA UPS 230V Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals Factory Racked Additional Battery Pack note: maximum 4 additional battery packs for a total of 5 Field Rack RBII Floor standing security brackets Replace Standard RS232 cable with RS232 DB9-DB25 PCI MUX cable Replace Standard RS232 cable with RS232 DB9-DB25 MDP MUX cable Replace Standard RS232 cable with RS232 DB9f-DB9m for MS NT Servers (available 6/1/00) Replace Standard power cord with Central European 4.5m C19/CEE7 Replace Standard power cord with International 4.5m C19/IEC309 plug Replace Standard power cord with International/European C19/unterminated</li> </ul>	A1356A		
		0D1	
		001	
		002	
		003	
		25P	
		25M	
		013	
		AWT	
		AWU	
		AW5	
<ul style="list-style-type: none"> <li>PowerTrust II-LR Battery Pack</li> <li>RS232 Extension Cable DB9f/DB9m</li> <li>PowerTrust II-LR SNMP/WEB Card</li> <li>PowerTrust II-LR Rack kit for Rosebowl I</li> <li>PowerTrust II-LR Rack kit for Rosebowl II</li> <li>PowerTrust II-LR Floor standing security brackets</li> <li>PowerTrust II-LR/MR RS232 DB-9f/DB-9m cable</li> <li>RS232 DB9-DB25 PCI MUX cable</li> <li>RS232 DB9-DB25 MDP MUX cable</li> <li>PowerTrust II-MR 4.0kW/4.5kVA UPS 230V Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option. Factory Racked Additional Battery Pack note: 3 additional battery packs for a max of 4 Field rack for RBII Replace Standard RS232 cable with RS232 DB9-DB25 PCI MUX cable Replace Standard RS232 cable with RS232 DB9-DB25 MDP MUX cable</li> </ul>	A1357A		
	A1358A		
	A1359A		
	A1361A		
	A1362A		
	A1363A		
	A1364A		
	A1365A		
	A1366A		
	A6583A		
		0D1	
		001	
		002	
		004	
		005	



Description	Product #	Opt #	Price
Input/output hardwired		007	
Power interface option, L6-30P plug line cord, w/PDP-2,output, US/Japan		008	
Power interface option, input hardwired w/PDP-2,output, US/Japan		011	
Power interface option, input hardwired w/PDP-1 output,Europe		012	
Power interface option, IC309 30A plug, line cord, w/PDP-1 output,Europe		013	
• PowerTrust II-M4.0kW Battery Pack note: 3 additional battery packs for a max of 4	A6586A		
• PowerTrust II-MR 6.5kW/9kVA UPS 230V	A6584A		
Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.			
Factory Racked		0D1	
Additional Battery Pack Set (2 batteries/set) note: 3 additional battery pack sets for a max of 4		001	
Field rack for RBII		002	
Replace Standard RS232 cable with RS232 DB9-DB25 PCI MUX cable		004	
Replace Standard RS232 cable with RS232 DB9-DB25 MDP MUX cable		005	
Input/output hardwired		007	
Power interface option, 6-50P plug line cord, w/PDP-2,output, US/Japan		009	
Power interface option, IC309 60A plug, line cord, w/PDP-1 output,Europe		010	
Power interface option, input hardwired w/PDP-2,output, US/Japan		011	
Power interface option, input hardwired w/PDP-1 output,Europe		012	
Power interface option, IC309 60A plug, line cord, w/PDP-2 output,US/Japan		014	
• PowerTrust II-MR 8kW/12kVA UPS 230V	A6585A		
Includes; one battery pack, RS232 DB9f/DB9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.			
Factory Racked		0D1	
Additional Battery Pack Set (2 batteries/set) note: 3 additional battery pack set for a max of 4		001	
Field rack for RBII		002	
Replace Standard RS232 cable with RS232 DB9-DB25 PCI MUX cable		004	
Replace Standard RS232 cable with RS232 DB9-DB25 MDP MUX cable		005	
Input/output hardwired		007	
Power interface option, input hardwired w/PDP-2,output, US/Japan		011	
Power interface option, input hardwired w/PDP-1 output,Europe		012	
• PowerTrust II-MR 6.5kW/8kW Battery Pack Set (2 batteries/set) ) note: 3 additional battery pack set for a max of 4	A6587A		
• PowerTrust II-MR Input/Output Hardwired cable	A6588A		
• PowerTrust II-MR Rack kit for Rosebowl I	A6601A		
• PowerTrust II-MR Rack kit for Rosebowl II	A6602A		
• Power interface option, L6-30P plug line cord, w/PDP-2,output, US/Japan	A6589A		
• Power interface option, 6-50P plug line cord, w/PDP-2,output, US/Japan	A6590A		
• Power interface option, IC309 60A plug, line cord, w/PDP-1 output,Europe	A6591A		
• Power interface option, input hardwired w/PDP-2,output, US/Japan	A6592A		
• Power interface option, input hardwired w/PDP-1 output,Europe	A6594A		
• Power interface option, IC309 30A plug, line cord, w/PDP-1 output,Europe	A6595A		
• Power interface option, IC309 60A plug, line cord, w/PDP-2 output,US/Japan	A6596A		
• SNMP Card Communication Kit (available June 2001)	A6593A		
• Contact Closure Card Kit w/cable (direct connection w/native NT or remote status connection	A6597A		

## Subchapter 4.4—Field Integrated Cabinets

	Description	Product #	Opt #	Price
•	<b>HP Rack System/E41 (includes side panels, anti-tip feet) Field Integrated Cabinet</b>	A4902A		
	Delete Cabinet Side Panels		AXW	
	Rear Door (Required – Max 1) (See Chapter 2 for factory integrated cabinet menu).	A5213AZ		
•	<b>HP Rack System/E33 (includes side panels, anti-tip feet) Field Integrated Cabinet</b>	A4901A		
	Delete Cabinet Side Panels		AXW	
	Rear Door (Required – Max 1) (See Chapter 2 for factory integrated cabinet menu)	A5212AZ		
	I/O Expansion Option (available only with Corporate Business Server 890, A1828A) Add HP-PB Expansion module with 14 HP-PB expansion slots, lower bus converter, and 10-meter interconnect cable			
•	<b>1.6 m Field Integrated Base Cabinet - High Density D-Class 23" wide Cabinet</b>	A3765A		
	(See Chapter 2 for factory integrated cabinet menu) Note: PDUs can be ordered already integrated into the cabinet using the options for the Field Integrated Cabinet (A3765A). PDUs can also be ordered separately using the cabinet accessory menu and installed at the customer's site. Note: One mounting kit (A4838A) is required for each D-Class server integrated into the Field Integrated 23" wide cabinet (A3765A). One mounting kit (A4838A) is also required for each additional D-Class server integrated in the field into the Factory Integrated 23" wide cabinet (A3764A). Note: The Factory Integration product (A4834A) provides the mounting kit and factory integration for each D-Class integrated <b>at the factory</b> into the Factory Integrated 23" wide cabinet. The Mounting Kit product (A4838A) provides the mounting kit for someone to integrate a D-Class server <b>in the field</b> into the Field Integrated 23" wide cabinet or the Factory Integrated 23" wide cabinet. Note: 2 PDUs are required if 3 or 4 servers are integrated into the cabinet			
•	Cabinet with capacity to integrate 1 to 4 D-Class servers	A3765A	001	
•	Cabinet with capacity to integrate 1 to 2 D-Class servers as well as 15 EIA units of peripherals	A3765A	002	
•	1st 200-240 volts North American power	A3765A	AW4	
•	Add 2nd 200-240 volts North American power	A3765A	A5J	
•	1st 200-240 volts International power	A3765A	AW5	
•	Add 2nd 200-240 volts International power	A3765A	A5K	
•	1st 240 volts North American UPS PDU	A3765A	A5F	
•	1st 240 volts European UPS PDU	A3765A	A5G	
•	1st 120/240 volts Universal UPS PDU	A3765A	A5H	
•	Add 2nd 120/240 volts Universal UPS PDU	A3765A	A5L	
•	Mounting kit for integrating one D-Class server in the field into the D-Class 23" wide cabinet	A4838A		
•	D-Class deskside front bezel (optional) (only needed to replace the front bezel if moving a D-Class server in the field from a 19" wide cabinet to the 23" wide cabinet)	A4838A	010	
•	<b>HP Rack System/E25 (includes side panels, anti-tip feet) Field Integrated Cabinet</b>	A4900A		
	Rear Door (Required – Max 1) (See Chapter 2 for factory integrated cabinet menu).	A5211AZ		
	<b>Cabinet Accessories</b>			
•	HP side panel kit for Rack System/E41	J1506A		
•	HP side panel kit for Rack System/E33	J1507A		
•	HP side panel kit for Rack System/E25	J1508A		
•	HP Filler Panels for rack System/E Quantity 6	J1514A		
•	ADP Rackmount Kit (for rear of cabinet)	C2792A		
•	Rackmount kit for A-Class Systems	A5810A		
•	Rackmount Kit for D-Class Systems (Only for standard 19" cabinets)	C2805C		
•	Rackmount Kit for E-Class Systems	C2803C		
•	Field Rackmount Kit for L-Class Systems – HA Slider rails	A5556A		
•	Field Rackmount Kit for L-Class Systems – Static rails	A5575A		

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>Field Rackmount Kit for L-Class Systems in A189xA cabinets – Static rails</li> </ul>	A5562A		
<ul style="list-style-type: none"> <li>Rackmount Kit for K-Class Systems</li> </ul>	C2804C		
<ul style="list-style-type: none"> <li>14 Kg (30 lbs.) Anti-tip Ballast</li> </ul>	C2790A		
<ul style="list-style-type: none"> <li>Rackmount Kit for 5 Modem Distribution Panels</li> </ul>	J2084A		
<ul style="list-style-type: none"> <li>Rackmount Kit for 10 Modem Distribution Panels</li> </ul>	J2087A		
<ul style="list-style-type: none"> <li>HP Tie Kit for Rack System/E41</li> </ul>	J1512A		
<ul style="list-style-type: none"> <li>HP Tie Kit for Rack System/E33</li> </ul>	J1513A		
<b>Power Distribution Unit: (requires additional power cord except for 30A PDU and no separate installation kit to be ordered)</b>			
<i>19" modular PDU's (no switch):</i>			
<ul style="list-style-type: none"> <li>100-240V, 16A PDU w/ 7-C13, 1-C19 receptacles</li> </ul>	E7674A		
<ul style="list-style-type: none"> <li>200-240V, 30A PDU w/ 8-C13, 2-C19 receptacles, N. America (comes w/attached Nema L6-30P power cord)</li> </ul>	E7681A		
<ul style="list-style-type: none"> <li>200-240V, 30A PDU w/ 8-C13, 2-C19 receptacles, International (comes w/ attached IEC-309 power cord)</li> </ul>	E7682A		
<i>To have the switching capability for the above 19" modular PDU's, additional SKU's needs to be ordered:</i>			
<ul style="list-style-type: none"> <li>100-127V switch accessory for 16A PDU's (includes the switch accy. and switch panel)</li> </ul>	E7679A		
<ul style="list-style-type: none"> <li>200-240V switch accessory for 16A PDU's (includes the switch accy. and switch panel)</li> </ul>	E7680A		
<ul style="list-style-type: none"> <li>Switch panel w/cord for 30A PDU</li> </ul>	E7677A		
<ul style="list-style-type: none"> <li>Switch cable for additional 30A PDU</li> </ul>	E7678A		
<b>Power Cords: (to be used to connect the PDU's to the power source- wall or UPS)</b>			
<ul style="list-style-type: none"> <li>Power cord w/ 5-20P, 4.5m</li> </ul>	E7802A		
<ul style="list-style-type: none"> <li>Power cord w/ L6-20P, 4.5m</li> </ul>	E7803A		
<ul style="list-style-type: none"> <li>Power cord w/ C20 plug, 4.0m</li> </ul>	E7804A		
<ul style="list-style-type: none"> <li>Power cord w/ L6-30P, 4.5m</li> </ul>	E7805A		
<ul style="list-style-type: none"> <li>Power cord w/ no plug, 4.5m</li> </ul>	E7806A		
<ul style="list-style-type: none"> <li>Power cord w/ IEC-309, 4.5m (outside N. America use only)</li> </ul>	E7808A		
<ul style="list-style-type: none"> <li>Power cord w/ CEE7/7, 4.5m (outside N. America use only)</li> </ul>	E7809A		
<ul style="list-style-type: none"> <li>Power cord w/ C20 plug, 2.5m</li> </ul>	E7798A		
<b>Jumper Cords: (to connect the mounted equipment to the PDU within the rack)</b>			
<ul style="list-style-type: none"> <li>250V Jumper cord w/ C13 to C14, 2.3m</li> </ul>	E7742A		
<ul style="list-style-type: none"> <li>125V Jumper cord w/ C13 to Nema 5-15, 2.3m</li> </ul>	E7743A		
<ul style="list-style-type: none"> <li>Jumper cord w/ C14 to C15, 0.7m</li> </ul>	E7807A		
<ul style="list-style-type: none"> <li>Standard fixed plain shelf (for mounting odd-shaped devices)</li> </ul>	E3666A		
<ul style="list-style-type: none"> <li>Keyboard/mouse tray (stationary)</li> </ul>	E3900A		
<ul style="list-style-type: none"> <li>Keyboard/mouse tray (retractable)</li> </ul>	E4079A		
<ul style="list-style-type: none"> <li>Universal HP monitor rack mount kit ( fits monitors from 14" to 21" sizes)</li> </ul>	E5922A		

## Subchapter 4.5—Add-on Memory and Accessories

Description	Product #	Opt #	Price
<b>A-Class, R-Class, D-Class Memory</b>			
<ul style="list-style-type: none"> <li>128 MB ECC memory module</li> </ul>	A3408A		
<ul style="list-style-type: none"> <li>256 MB ECC memory module</li> </ul>	A3564A		
<ul style="list-style-type: none"> <li>512 MB ECC memory module</li> </ul>	A3717A		
<b>E-Class Memory</b>			
<ul style="list-style-type: none"> <li>16 MB ECC memory module</li> </ul>	A2946A		
<ul style="list-style-type: none"> <li>32 MB ECC memory module</li> </ul>	A3309A		
<ul style="list-style-type: none"> <li>64 MB ECC memory module</li> </ul>	A2948A		
<ul style="list-style-type: none"> <li>128 MB ECC memory module, quantity price break for 4 or more units, \$2,495 ea.</li> </ul>	A3131A		
<b>8x7, F, G, H, I-Class Memory</b>			
<ul style="list-style-type: none"> <li>128 MB ECC High Density memory module</li> </ul>	A2516A		



Description	Product #	Opt #	Price
<b>K-Class Memory</b>			
• 128 MB high-density ECC memory module	A3027A		
• 256 MB high-density ECC memory module	A3483A		
• 512 MB high-density ECC memory module	A3737A		
<b>T-Class Memory and I/O Accessories</b>			
• 256 MB ECC memory board	A2234A		
• 512 MB ECC memory board	A2588A		
• 768 MB ECC memory board	A2589A		
• 8 GB memory carrier (T600 only; no memory installed)	A3839A		
• 1 GB memory module for T600 (Used with A3839A)	A3832A		
• HP-PB I/O Expansion Module	A1828A		
• HSC bus converter (T600 only)	A3567A		
• HP-PB bus converter (T600 only)	A3568A		
• Dual I/O Bus Converter	A1829A		
<b>Floating-Point Coprocessor Field Upgrades</b>			
• Floating-Point Coprocessor Field Upgrade on HP 9000 F-, G-, H-, I-Class, and 8x7 For HP 9000 Model 10 systems, Model 807S (shipped after 3/15/92) For HP 9000 Model 20 systems, Model 817S - 827S For HP 9000 Model 30 systems, Model 837S - 857S For HP 9000 Model 40 systems, Models 867S - 877S 32 MHz CPU board with Floating-Point Coprocessor for 807S Servers shipped before 3/15/92 without floating-point socket	A2293A		
		001	
		003	
		004	
		002	
		101	

## Subchapter 4.6—Add-on Storage Products for Installation inside the SPU Enclosure

Description	Product #	Opt #	Price
<b>Disk Drives</b>			
Unless otherwise specified, all disk drive products are supported on HP-UX 9.04 and 10.01. The following products occupy one half-height slot:			
• 2 GB FWD SCSI-2 low profile or (K-Class only)	A3351A	002	
• 4 GB SE SCSI-2 low profile disk drive	A3352A	002	
• 4 GB FWD SCSI-2 low profile disk drive (K-Class only)	A3353A	002	
<b>Removable Media Drives</b>			
The following products occupy one half-height slot and are single-ended SCSI-2			
• 2.88 MB 3.5" IDE floppy disk drive For field add-on	A3307A	002	
• 12x CD-ROM Drive For field add-on	A3715A	002	
• 4.0 GB DDS DAT drive + data compression For field add-on (orderable July 1, 1997)	A3183A	002	
• 7.0 GB 8 mm tape drive SCSI-2. HP-UX 9.04 required. Installation kit for F/G/H/I SPU	A3357A	002	



## Subchapter 4.7—Mass Storage

### 4.7.1—Mass Storage Warranty\*

Product Family	U.S. Base Warranty
Surestore Disk System 2100	One-Year, enhanced parts only, return to HP
SureStore Disk Systems HVD10, SC10 and FC10	Three-Year, 3 Day Response, On-Site Support
SureStore Disk System 12H	Three-Year, 3 Day Response, On-Site Support
High Availability Storage System	Three-Year, 3 Day Response, On-Site Support
DLT (Standalone Only) and DDS Tape Drives	Two-Year Total Duration, with Year 1 Next-Day On-Site, Year 2 Unit Exchange
DLT (Library Only)	One-Year, Next Day Support
All Other Mass Storage Products	One-Year, 3 Day Response

\*Warranty May Differ Outside the U.S.

### 4.7.2—Surestore Disk System 2100

Description	Product #	Opt #	Price
• Surestore Disk System 2100 (Field Rack)	A5675A		
• Surestore Disk System 2100 (Field Rack – empty enclosure only, disk drives cannot be integrated)	A5675AE		
• Surestore Disk System 2100 (Factory Rack)	A5675AZ		
• Surestore Disk System 2100 (Desktop)	A5675AD		
• Surestore Disk System 2100 (Desktop – empty enclosure only, disk drives cannot be integrated)	A5675AD		
<b>Accessories</b>			
• 18GB 10K RPM Ultra3 SCSI	A6537A		
• 36GB 10K RPM Ultra3 SCSI	A6538A		
• 73GB 10K RPM Ultra3 SCSI	A6539A		
• 18GB 15K RPM Ultra3 SCSI	A6540A		
• 36GB 15K RPM Ultra3 SCSI	A6541A		
• HP System E/Rittal Rack Kit	A5679A		
• HP Original Rack Kit	A5680A		
• Two Post Carrier Grade Rack Kit	A6576A		
• Four Post Carrier Grade Rack Kit	A6578A		
• 0.5m 68P HD to 68P HD SCSI Cable	C2978B		
• 1.0m 68P HD to 68P HD SCSI Cable	C2911C		
• 1.5m 68P HD to 68P HD SCSI Cable	C2979B		
• 2.5m 68P HD to 68P HD SCSI Cable	C2924C		
• 5.0m 68P HD to 68P HD SCSI Cable	C7521A		
• 1.0m VHDCI to 68P HD SCSI Cable	C2361B		
• 2.5m VHDCI to 68P HD SCSI Cable	C2362B		
• 5.0m VHDCI to 68P HD SCSI Cable	C2365B		
• 2.0m VHDS68/HDS68 LVD/SE Self-terminating cable for V-Class	C7541A		
• 5.0m VHDS68/HDS68 LVD/SE Self-terminating cable for V-Class	C7520A		
• SCSI Terminator	C2364A		
• Deskside Pedestal Upgrade Kit (for desktop model only)	A6519A		

### 4.7.3—Mass Storage Subsystems

Description	Product #	Opt #	Price
(For HASS with FC MUX, refer to sample order menus in the Design Guide at <a href="http://eps.rose.hp.com">http://eps.rose.hp.com</a> . Note: Site is not accessible to HP Channel Partners Full factory integration including racking and cabling is available only for configurations described in the Design Guide. Order A5147A for full factory integration of storage configurations described in the Design Guide)			
• <b>High Availability Storage System (HASS) Factory Rack Enclosure</b>	A3312A		

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Description	Product #	Opt #	Price
Includes 2 hot-pluggable cooling fans and 1 hot-pluggable power supply installed in Rack enclosure with 2 SCSI-2 buses. Accommodates maximum of 8 low-profile modules or 4 half-height modules.			
Single SCSI Bus Configuration		001	
Redundant hot-pluggable Power Supply		002	
1x18.2 GB FWD Half Height High Performance Disk Module		163	
0.9 m 68-pin high-density/68-pin high-density cable		801	
2.5 m 68-pin high-density/68-pin high-density cable		802	
5 m 68-pin high-density/68-pin high-density cable		803	
10 m 68-pin high-density/68-pin high-density cable		804	
1 m 50-pin low-density/68-pin high-density cable		821	
2 m 50-pin low-density/68-pin high-density cable		822	
1 m 50-pin low-density female/68-pin high-density cable		823	
1 m 50-pin high-density/68-pin high-density cable		825	
1.5 m 50-pin high-density/68-pin high-density cable		826	
2 m 50-pin high-density/68-pin high-density cable		827	
CA – 1 m 68-pin high-density LP /68-pin high-density cable LP		806	
CA – 2.5 m 68-pin high-density LP /68-pin high-density cable LP		807	
CA – 5.0 m 68-pin high-density LP /68-pin high-density cable LP		808	
CA – 10 m 68-pin high-density LP /68-pin high-density cable LP		809	
1 m VHDCI / 68-pin high-density cable		811	
2.5 m VHDCI / 68-pin high-density cable		812	
5 m VHDCI / 68-pin high-density cable		813	
10 m VHDCI / 68-pin high-density cable		814	
2 m V-cable VHDCI / VHDCI /68-pin high-density cable		841	
2 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable		842	
2 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable		843	
2 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable		844	
4 m V-cable VHDCI / VHDCI /68-pin high-density cable		B25	
4 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable		B26	
4 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable		B27	
4 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable		B28	
2 m V-cable/68-pin high-density male cable		840	
5.0-meter 68-pin HD male to 68-pin HD male in-line terminator cable for V-Class		875	
10.0-meter 68-pin HD male to 68-pin HD male in-line terminator cable for V-Class		851	
2/3-meter V in-line terminator cable – 68-pin HD male for V-Class		873	
2/5-meter V in-line terminator cable – 68-pin HD male for V-Class		871	
<ul style="list-style-type: none"> <li>AutoRAID Model 12H Power Upgrade Kit (NOTE: Supported on HASS w/FC MUX per Design Guide at <a href="http://eps.rose.hp.com">http://eps.rose.hp.com</a>. Note: Site is not accessible to HP Channel Partners Refer to the HP 9000 Enterprise Servers Configuration Guide. Choose option OD1 for basic integration into rack.)</li> </ul>	A4915A		
U.S. – English Localization		ABA	
Europe (HPSA) – English Localization		ABB	
200 – 240 V UPS 4.5m Power Cable		024	
<ul style="list-style-type: none"> <li>Hot-Pluggable Power Supply Module</li> <li>Hot-Pluggable Fan Module</li> <li>18.2 GB Half Height FWD High Performance Disk Module</li> <li>Single-ended terminator</li> <li>Front Door for HASS – Quartz Grey (For Parchment White replacement)</li> </ul>	A3538A A3326A A5239A A3328A A5331A		
<ul style="list-style-type: none"> <li><b>Cables for High Availability Storage System</b></li> </ul>	A3401A		
5 m 68-pin high-density/68-pin high-density cable		001	
2 m 50-pin low-density/68-pin high-density cable		002	
1 m 50-pin low-density female/68-pin high-density cable		003	
2 m V-cable/68-pin high-density-male cable		004	
0.5 m 68-pin high-density cable		005	
10 m 68-pin HD to 68-pin HD V-Class cable		851	
2/3 m V inline terminator V Class 68-pin HDM		871	



Description	Product #	Opt #	Price
2/3 m V inline terminator V-Class 68-pin HDM		873	
5 m 68-pin HD to 68-pin HD V-Class cable		875	
4 m V-cable VHDCI / VHDCI /68-pin high-density cable		B25	
4 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable		B26	
4 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable		B27	
4 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable		B28	
• 2 m V-cable VHDCI / VHDCI /68-pin high-density cable	A5607A		
• 2 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable	A5608A		
• 2 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable	A5609A		
• 2 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable	A5610A		
• <b>High Availability Storage System Factory Rack Enclosure</b>	A3312AZ		
Includes 2 hot-pluggable cooling fans and 1 hot-pluggable power supply installed in Rack enclosure with 2 SCSI-2 buses. Accommodates maximum of 8 low-profile modules or 4 half-height modules. For 1.1 meter or 1.6 meter cabinet only.			
Single SCSI Bus Configuration		001	
Redundant Hot-Pluggable Power Supply		002	
1x18.2 GB FWD Half Height High Performance Disk Module		163	
0.9 m 68-pin high-density/68-pin high-density cable		801	
2.5 m 68-pin high-density/68-pin high-density cable		802	
5 m 68-pin high-density/68-pin high-density cable		803	
10 m 68-pin high-density/68-pin high-density cable		804	
1 m 50-pin low-density/68-pin high-density cable		821	
2 m 50-pin low-density/68-pin high-density cable		822	
1 m 50-pin low-density female/68-pin high-density cable		823	
1 m 50-pin high-density/68-pin high-density cable		825	
1.5 m 50-pin high-density/68-pin high-density cable		826	
2 m 50-pin high-density/68-pin high-density cable		827	
CA – 1 m 68-pin high-density LP /68-pin high-density cable LP		806	
CA – 2.5 m 68-pin high-density LP /68-pin high-density cable LP		807	
CA – 5.0 m 68-pin high-density LP /68-pin high-density cable LP		808	
CA – 10 m 68-pin high-density LP /68-pin high-density cable LP		809	
1 m VHDCI / 68-pin high-density cable		811	
2.5 m VHDCI / 68-pin high-density cable		812	
5 m VHDCI / 68-pin high-density cable		813	
10 m VHDCI / 68-pin high-density cable		814	
2 m V-cable VHDCI / VHDCI /68-pin high-density cable		841	
2 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable		842	
2 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable		843	
2 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable		844	
4 m V-cable VHDCI / VHDCI /68-pin high-density cable		B25	
4 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable		B26	
4 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable		B27	
4 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable		B28	
2 m V-cable/68-pin high-density male cable		840	
5.0-meter 68-pin HD male to 68-pin HD male in-line terminator cable for V-Class		875	
10.0-meter 68-pin HD male to 68-pin HD male in-line terminator cable for V-Class		851	
2/3-meter V in-line terminator cable – 68-pin HD male for V-Class		873	
2/5-meter V in-line terminator cable – 68-pin HD male for V-Class		871	
• <b>High Availability Storage System Deskside Enclosure</b>	A3311A		
Includes 2 hot-pluggable cooling fans and 1 hot-pluggable power supply installed in deskside enclosure with 2 SCSI-2 buses Accommodates maximum of 8 low-profile modules or 4 half-height modules			
Single SCSI Bus Configuration		001	
Redundant Hot-Pluggable Power Supply		002	
1x18.2 GB FWD Half Height High Performance Disk Module		163	
0.9 m 68-pin high-density/68-pin high-density cable		801	
2.5 m 68-pin high-density/68-pin high-density cable		802	
5 m 68-pin high-density/68-pin high-density cable		803	

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Description	Product #	Opt #	Price
10 m 68-pin high-density/68-pin high-density cable		804	
1 m 50-pin low-density/68-pin high-density cable		821	
2 m 50-pin low-density/68-pin high-density cable		822	
1 m 50-pin low-density female/68-pin high-density cable		823	
1 m 50-pin high-density/68-pin high-density cable		825	
1.5 m 50-pin high-density/68-pin high-density cable		826	
2 m 50-pin high-density/68-pin high-density cable		827	
CA – 1 m 68-pin high-density LP /68-pin high-density cable LP		806	
CA – 2.5 m 68-pin high-density LP /68-pin high-density cable LP		807	
CA – 5.0 m 68-pin high-density LP /68-pin high-density cable LP		808	
CA – 10 m 68-pin high-density LP /68-pin high-density cable LP		809	
1 m VHDCI / 68-pin high-density cable		811	
2.5 m VHDCI / 68-pin high-density cable		812	
5 m VHDCI / 68-pin high-density cable		813	
10 m VHDCI / 68-pin high-density cable		814	
2 m V-cable VHDCI / VHDCI /68-pin high-density cable		841	
2 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable		842	
2 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable		843	
2 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable		844	
4 m V-cable VHDCI / VHDCI /68-pin high-density cable		B25	
4 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable		B26	
4 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable		B27	
4 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable		B28	
2 m V-cable/68-pin high-density male cable		840	
5.-meter 68-pin HD male to 68-pin HD male in-line terminator cable for V-Class		875	
10.-meter 68-pin HD male to 68-pin HD male in-line terminator cable for V-Class		851	
2/3-meter V in-line terminator cable – 68-pin HD male for V-Class		873	
2/5-meter V in-line terminator cable – 68-pin HD male for V-Class		871	
• Hot-Pluggable Power Supply Module	A3538A		
• Hot-Pluggable Fan Module	A3326A		
• 18.2 GB Half Height High Performance Disk Module	A5239A		
• Single-ended terminator	A3328A		
• <b>Cables for High Availability Storage System</b>	A3401A		
5 m 68-pin high-density/68-pin high-density cable		001	
2 m 50-pin low-density/68-pin high-density cable		002	
1 m 50-pin low-density female/68-pin high-density cable		003	
2 m V-cable/68-pin high-density male cable		004	
0.5 m 68-pin high-density cable		005	
10 m 68-pin HD to 68-pin HD V-Class cable		851	
2/3 m V in-line terminator V-Class 68-pin HDM		871	
2/3 m V in-line terminator V-Class 68-pin HDM		873	
5 m 68-pin HD to 68-pin HD V-Class cable		875	
4 m V-cable VHDCI / VHDCI /68-pin high-density cable		B25	
4 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable		B26	
4 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable		B27	
4 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable		B28	
• 2 m V-cable VHDCI / VHDCI /68-pin high-density cable	A5607A		
• 2 m V-cable VHDCI / VHDCI I / L Terminator / 68-pin high-density cable	A5608A		
• 2 m V-cable 68-pin high-density / VHDCI /68-pin high-density cable	A5609A		
• 2 m V-cable 68-pin high-density / VHDCI I / L Terminator /68-pin high-density cable	A5610A		
<b>HP SMART Storage Family of Storage Modules &amp; Enclosure: Factory Racked Tape Products</b>			
• HP SMART Storage Full Height Enclosure, Factory-racked (3 EIA units high)	C4318SZ		
HP SMART Storage DDS-2 Tape Drive		102	
HP SMART Storage DDS-3 Tape Drive		103	
HP SMART Storage DDS-3 Tape Autoloader		104	
HP SMART Storage DDS-4 Tape Drive		110	



Description	Product #	Opt #	Price
HP SMART Storage DDS-4 Tape Autoloader		111	
HP SMART Storage DLT 4000 (HP-UX)		106	
HP SMART Storage DLT 4000 (MPE/iX)		107	
HP SMART Storage DVD-ROM		108	
HP SMART Storage DLT-8000)		109	
.5 68-pin HD to 68-pin HD Cable		001	
.9 m 68-pin HD to 68-pin HD cable		801	
2.5 m 68-pin HD to 68-pin HD cable		802	
5 m 68-pin HD to 68-pin HD cable		803	
1 m VHDCI 68-pin to HD 68-pin cable		811	
2.5 m VHDCI 68-pin to HD 68-pin cable		812	
5.0 m VHDCI 68-pin to HD 68-pin cable		813	
10.0 m VHDCI 68-pin to HD 68-pin cable		814	
1 m 50-pin LD to 68-pin HD cable		821	
2 m 50-pin LD to 68-pin HD cable		822	
1 m 50-pin HD to 68-pin HD cable		825	
2 m 50-pin HD to 68-pin HD cable		827	
WSE 68-pin SCSI terminator		835	
FWD 68-pin SCSI terminator		836	
LVD/SE 68-pin terminator		837	
"Y" Power cable to power two devices from single PDU outlet		850	
10 m 68-pin HD to 68-pin HD V-Class cable		851	
2/3 m V in-line terminator V-Class 68-pin HDM		871	
2/3 m V in-line terminator V-Class 68-pin HDM		873	
5 m 68-pin HD to 68-pin HD V-Class cable		875	
<b>HP SMART Storage Family of Storage Modules and Enclosure: Field Racked Customer Installable/Field Upgrade</b>			
• <b>HP SMART Storage Full-Height Enclosure Field-racked (3 EIA Units)</b>	C4318B		
• <b>HP SMART Storage Half-Height Enclosure Field-racked (2 EIA Units)</b>	C4317A		
• <b>HP SMART Storage 9 GB LVD Disk Drive Field-racked</b>	C6403A		
• .5 m 68-pin HD to 68-pin HD cable	C2978B		
• 1.5 m 68-pin HD to 68-pin HD cable	C2979B		
• 1 m 50-pin HD to 68-pin HD cable	C2961A		
• 2 m 50-pin HD to 68-pin HD cable	C2906A		
• WSE 68-pin SCSI terminator	C2972A		
• <b>HP SMART Storage Half Height NSE DVD-ROM Field-racked</b>	C4315A		
• 0.5 m 68-pin HD to 68-pin HD cable	C2978B		
• 0.9 m 68-pin HD to 68-pin HD cable	C2911C		
• 1 m 50-pin HD to 68-pin HD cable	C2961A		
• 2 m 50-pin HD to 68-pin HD cable (male to male)	C2906A		
• WSE 68-pin SCSI terminator	C2972A		
<b>HP SMART Storage Family of Storage Modules &amp; Enclosures Field-Racked Tape Products (*C4318B or C4317A required)</b>			
• <b>HP SMART Storage NSE DDS-2 Tape Drive Field-racked</b>	C6363A		
• 0.5 m 68-pin HD to 68-pin HD cable	C2978B		
• 0.9 m 68-pin HD to 68-pin HD cable	C2911C		
• 1 m 50-pin HD to 68-pin HD cable	C2961A		
• 2 m 50-pin HD to 68-pin HD cable	C2906A		
• WSE 68-pin SCSI terminator	C2972A		
• <b>HP SMART Storage NSE DDS-3 Tape Drive Field-racked</b>	C6365A		
• 0.5 m 68-pin HD to 68-pin HD cable	C2978B		
• 0.9 m 68-pin HD to 68-pin HD cable	C2911C		
• 1 m 50-pin HD to 68-pin HD cable	C2961A		
• 2 m 50-pin HD to 68-pin HD cable	C2906A		
• WSE 68-pin SCSI terminator	C2972A		
• <b>HP SMART Storage NSE DDS-3 Tape Autoloader Field-racked</b>	C6367A		
• 0.5 m 68-pin HD to 68-pin HD cable (male to male)	C2978B		

**Chapter 4**  
**Storage, Accessories, and Other Peripherals**



Description	Product #	Opt #	Price
• 0.9 m 68-pin HD to 68-pin HD cable (male to male)	C2911C		
• 1 m 50-pin HD to 68-pin HD cable (male to male)	C2961A		
• 2 m 50-pin HD to 68-pin HD cable (male to male)	C2906A		
• WSE 68-pin SCSI terminator	C2972A		
• <b>HP SMART Storage (LVD) DDS-4 Tape Drive Field-racked</b>	C6369A		
• 0.5 m 68-pin HD to 68-pin HD cable	C2978B		
• 1.5 m 68-pin HD to 68-pin HD cable	C2979B		
• 1 m 50-pin HD to 68-pin HD cable	C2961A		
• 2 m 50-pin HD to 68-pin HD cable	C2906A		
• 0.9 m 68-pin HD to 68-pin HD cable	C2911C		
• 2.5 m 68-pin HD to 68-pin HD cable	C2924C		
• LVD 68-pin SCSI terminator	C2364A		
• 1 m VHDCI 68-pin to HD 68-pin cable	C2361B		
• 2.5 m VHDCI 68-pin to HD 68-pin cable	C2362B		
• 10.0 m VHDCI 68-pin to HD 68-pin cable	C2363B		
• 5.0 m VHDCI 68-pin to HD 68-pin cable	C2365B		
• <b>HP SMART Storage (LVD) DDS-4 Tape Autoloader</b>	C6371A		
• 0.5 m 68-pin HD to 68-pin HD cable	C2978B		
• 1.5 m 68-pin HD to 68-pin HD cable	C2979B		
• 1 m 50-pin HD to 68-pin HD cable	C2961A		
• 2 m 50-pin HD to 68-pin HD cable	C2906A		
• 0.9 m 68-pin HD to 68-pin HD cable	C2911C		
• 2.5 m 68-pin HD to 68-pin HD cable	C2924C		
• LVD 68-pin SCSI terminator	C2364A		
• 1 m VHDCI 68-pin to HD 68-pin cable	C2361B		
• 2.5 m VHDCI 68-pin to HD 68-pin cable	C2362B		
• 10.0 m VHDCI 68-pin to HD 68-pin cable	C2363B		
• 5.0 m VHDCI 68-pin to HD 68-pin cable	C2365B		
• <b>HP SMART Storage FWD DLT 8000 Drive Field-racked)</b>	C6379A		
• 0.5 m 68-pin HD to 68-pin HD cable (male to male)	C2978B		
• 0.9 m 68-pin HD to 68-pin HD cable (male to male)	C2911C		
• 2.5 m 68-pin HD to 68-pin HD cable (male to male)	C2924C		
• FWD 68-pin SCSI terminator	C2905A		
• <b>HP SMART Storage NSE DLT 4000 (MPE/iX) Field-racked</b>	C6381A		
• 0.5 m 68-pin HD to 68-pin HD cable (male to male)	C2978B		
• 0.9 m 68-pin HD to 68-pin HD cable (male to male)	C2911C		
• 1 m 50-pin HD to 68-pin HD cable (male to male)	C2961A		
• 2 m 50-pin HD to 68-pin HD cable (male to male)	C2906A		
• Smart WSE 68-pin SCSI terminator	C2972A		
• <b>HP SMART Storage FND DLT 4000 (HP-UX) Field-racked</b>	C6383A		
• 0.5 m 68-pin HD to 68-pin HD cable (male to male)	C2978B		
• 0.9 m 68-pin HD to 68-pin HD cable (male to male)	C2911C		
• 2.5 m 68-pin HD to 68-pin HD cable (male to male)	C2924CA		
• FWD 68-pin SCSI terminator	C2905A		
<b>HP SMART Storage Family: Desktop Modules</b>			
• <b>HP SMART Storage Desktop NSE DVD-ROM Drive</b>	C4314A		
• .5 m 50-pin HD to HD SCSI cable	C2955A		
• 1 m 50-pin HD to HD SCSI cable	C2908A		
• 2 m 50-pin HD to HD SCSI cable	C2957A		
• NSE Terminator	C2904A		
• 1.5 m 68 pin VHDCI to 50 pin HD SCSI cable	C2367A		
• 2.5 m 68 pin VHDCI to 50 pin HD SCSI cable	C2368A		
<b>HP Smart Storage Desktop Tape Products</b>			
• <b>HP SMART Storage Desktop NSE DDS-2 Tape Drive</b>	C6362A		
• .5 m 50-pin HD to HD SCSI cable	C2955A		



Description	Product #	Opt #	Price
• 1 m 50-pin HD to HD SCSI cable	C2908A		
• 2 m 50-pin HD to HD SCSI cable	C2957A		
• NSE Terminator	C2904A		
• 1.5 m 68 pin VHDCI to 50 pin HD SCSI cable	C2367A		
• 2.5 m 68 pin VHDCI to 50 pin HD SCSI cable	C2368A		
• <b>HP SMART Storage Desktop NSE DDS-3 Tape Drive</b>	C6364A		
• .5 m 50-pin HD to HD SCSI cable	C2955A		
• 1 m 50-pin HD to HD SCSI cable	C2908A		
• 2 m 50-pin HD to HD SCSI cable	C2957A		
• NSE Terminator	C2904A		
• 1.5 m 68 pin VHDCI to 50 pin HD SCSI cable	C2367A		
• 2.5 m 68 pin VHDCI to 50 pin HD SCSI cable	C2368A		
• <b>HP SMART Storage Desktop DDS-3 Tape Autoloader</b>	C6366A		
• .5 m 50-pin HD to HD SCSI cable	C2955A		
• 1 m 50-pin HD to HD SCSI cable	C2908A		
• 2 m 50-pin HD to HD SCSI cable	C2957A		
• NSE Terminator	C2904A		
• 1.5 m 68 pin VHDCI to 50 pin HD SCSI cable	C2367A		
• 2.5 m 68 pin VHDCI to 50 pin HD SCSI cable	C2368A		
• <b>HP SMART Storage Desktop LVD DDS-4 Tape Drive</b>	C6368A		
• 0.5 m 68-pin HD to 68-pin HD cable	C2978B		
• 1.5 m 68-pin HD to 68-pin HD cable	C2979B		
• 1 m 50-pin HD to 68-pin HD cable	C2961A		
• WSE/NSE 68-pin SCSI terminator	C2972A		
• LVD/SE 68-pin SCSI terminator	C2364A		
• 2 m 68 pin to 50 pin HD SCSI cable	C2906A		
• 1 m VHDCI 68-pin to HD 68-pin cable	C2361B		
• 2.5 m VHDCI 68-pin to HD 68-pin cable	C2362B		
• 10.0 m VHDCI 68-pin to HD 68-pin cable	C2363B		
• 5.0 m VHDCI 68-pin to HD 68-pin cable	C2365B		
• <b>HP SMART Storage Desktop LVD DDS-4 Tape Autoloader</b>	C6370A		
• 0.5 m 68-pin HD to 68-pin HD cable	C2978B		
• 1.5m 68-pin HD to 68-pin HD cable	C2979B		
• 1 m 50-pin HD to 68-pin HD cable	C2961A		
• 2 m 68 pin to 50 pin HD SCSI cable	C2906A		
• LVD 68-pin SCSI terminator	C2364A		
• 1 m VHDCI 68-pin to HD 68-pin cable	C2361B		
• 2.5 m VHDCI 68 pin I to HD 68-pin cable	C2362B		
• 10.0 m VHDCI 68-pin to HD 68-pin cable	C2363B		
• 5.0 m VHDCI 68-pin to HD 68-pin cable	C2365B		
• <b>HP SMART Storage Desktop DLT 8000 Drive</b>	C6378A		
• 0.9 m 68-pin HD to 68-pin HD cable	C2911C		
• 2.5 m 68-pin HD to 68-pin HD cable	C2924C		
• FWD Terminator	C2905A		
• <b>HP SMART Storage DLT 4000 (MPE/iX)</b>	C6380A		
• .5 m 50-pin HD to HD SCSI cable	C2955A		
• 1 m 50-pin HD to HD SCSI cable	C2908A		
• 2 m 50-pin HD to HD SCSI cable	C2957A		
• NSE Terminator	C2904A		
• <b>HP SMART Storage FND DLT 4000 (HP-UX) (terminator is included)</b>	C6382A		
• 1 m 50-pin HD to 68-pin HD cable	C2961A		
• 2 m 50-pin HD to 68-pin HD cable	C2906A		

#### 4.7.4—SureStore Tape Autoloaders and Accessories

Description	Product #	Opt #	Price
<b>DLT Tape Autoloaders</b>			
• HP SureStore Autoloader 1/9 (DLT8000 – standalone unit – HVDS)	C7145RA		
• HP SureStore Autoloader 1/9 (DLT8000 – standalone unit – LVDS)	C7145NB		
• HP SureStore Autoloader 1/9 (DLT8000 – rackmount unit – HVDS)	C7745RA		
• HP SureStore Autoloader 1/9 (DLT8000 – rackmount unit – LVDS)	C7745NB		
• HP SureStore Autoloader 1/9 (DLT8000 – standalone unit – HVDS) * with remote mgmt card	C7146RA		
• HP SureStore Autoloader 1/9 (DLT8000 – standalone unit – LVDS) * with remote mgmt card	C7146NB		
• HP SureStore Autoloader 1/9 (DLT8000 – rackmount unit – HVDS) * with remote mgmt card	C7746RA		
• HP SureStore Autoloader 1/9 (DLT8000 – rackmount unit – LVDS) * with remote mgmt card	C7746NB		
<b>Ultrium Tape Autoloaders</b>			
• HP SureStore Autoloader 1/9 (Ultrium – standalone unit – HVDS)	C7147AA		
• HP SureStore Autoloader 1/9 (Ultrium – standalone unit – LVDS)	C7147CB		
• HP SureStore Autoloader 1/9 (Ultrium – rackmount unit – HVDS)	C7747AA		
• HP SureStore Autoloader 1/9 (Ultrium – rackmount unit – LVDS)	C7747CB		
• HP SureStore Autoloader 1/9 (Ultrium – standalone unit – HVDS) * with remote mgmt card	C7149AA		
• HP SureStore Autoloader 1/9 (Ultrium – standalone unit – LVDS) * with remote mgmt card	C7149CB		
• HP SureStore Autoloader 1/9 (Ultrium – rackmount unit – HVDS) * with remote mgmt card	C7748AA		
• HP SureStore Autoloader 1/9 (Ultrium – rackmount unit – LVDS) * with remote mgmt card	C7748CB		
<b>DLT1 Tape Autoloaders</b>			
• HP SureStore Autoloader 1/9 (DLT1 – standalone unit – LVDS)	C9240CB		
• HP SureStore Autoloader 1/9 (DLT1 – rackmount unit – LVDS)	C9241CB		
• HP SureStore Autoloader 1/9 (DLT1 – standalone unit – LVDS) * with remote mgmt card	C9250CB		
• HP SureStore Autoloader 1/9 (DLT1 – rackmount unit – LVDS) * with remote mgmt card	C9251CB		
<b>Accessories</b>			
• 1/9 Skins Kit (includes all cosmetic parts – front bezel, chin, enclosure and feet)	C7148A		
• 1/9 Rackmount Kit (Two 1/9 Autoloaders per rack; can be mounted side-by-side)	C7740R		
• 1/9 Remote Management Card Kit	C7749A		
• 1/9 Ultrium HVDS Conversion Kit (converts HVDS DLT or DLT1 autoloader to Ultrium)	C7768A		
• 1/9 Ultrium LVDS Conversion Kit (converts LVDS DLT or DLT1 autoloader to Ultrium)	C7768C		
• 1/9 DLT 6-Slot Removable Magazine (with six pieces of media)	C7742R		
• 1/9 DLT 6-Slot Removable Magazine (empty)	C7741R		
• 1/9 Ultrium 6-Slot Removable Magazine (with six pieces of media)	C7744A		
• 1/9 Ultrium 6-Slot Removable Magazine (empty)	C7743A		
• 818 Rackmount Kit (Two 818 Autoloaders per rack; can be mounted side-by-side)	C6287J		
• 818 6-Slot Removable Magazine (with six pieces of media)	C6289J		
• 818 6-Slot Removable Magazine (empty)	C6288J		
<b>Multimode Cables for Tape Drives</b>			
• SCSI Cable 0.5m HDTS 68 pin Male/Male Multimode cable	C2978B		
• SCSI Cable 1 m HDTS 68 pin Male/Male Multimode cable	C2911C		
• SCSI Cable 1.5m HDTS 68 pin Male/Male Multimode cable	C2979B		
• SCSI Cable 2.5m HDTS 68 pin Male/Male Multimode cable	C2924C		
• SCSI Cable 5 m HDTS 68 pin Male/Male Multimode cable	C7521A		
• SCSI Cable 10 m HDTS 68 pin Male/Male Multimode cable	C7522A		
• SCSI Cable 1 m VHDTS 68 pin Male/Male Multimode cable	C2361B		
• SCSI Cable 2.5 m VHDTS 68 pin Male/Male Multimode cable	C2362B		
• SCSI Cable 5 m VHDTS 68 pin Male/Male Multimode cable	C2365B		
• SCSI Cable 10 m VHDTS 68 pin Male/Male Multimode cable	C2363B		
• SCSI Terminator LVDS/SE HDTS 68 Multimode	C2364A		
• SCSI Terminator LVDS/SE VHDTS 68 Multimode	C2370A		



### 4.7.5—SureStore E Mid-Range Tape Libraries and Accessories

Description	Product #	Opt #	Price
<b>DLT Tape Libraries</b>			
• HP SURESTORE E DLT TAPE LIBRARY 2/20 (RACKMOUNT UNIT - HVDS)	A5583A		
• HP SURESTORE E DLT TAPE LIBRARY 2/20 (RACKMOUNT UNIT - LVDS)	A4680A		
Requires 1 or 2 DLT tape drives (not included); includes empty media magazines for 20 cartridges.			
• HP SURESTORE E DLT TAPE LIBRARY 2/20 (STANDALONE UNIT - HVDS)	A5584A		
• HP SURESTORE E DLT TAPE LIBRARY 2/20 (STANDALONE UNIT - LVDS)	A4681A		
Requires 1 or 2 DLT tape drives (not included); includes empty media magazines for 20 cartridges.			
• HP SURESTORE E DLT TAPE LIBRARY 4/40 (RACKMOUNT UNIT - HVDS)	A5585A		
• HP SURESTORE E DLT TAPE LIBRARY 4/40 (RACKMOUNT UNIT - LVDS)	A4682A		
Requires 2 or 4 DLT tape drives (not included); includes empty media magazines for 40 cartridges.			
• HP SURESTORE E DLT TAPE LIBRARY 4/40 (STANDALONE UNIT - HVDS)	A5586A		
• HP SURESTORE E DLT TAPE LIBRARY 4/40 (STANDALONE UNIT - LVDS)	A4683A		
Requires 2 or 4 DLT tape drives (not included); includes empty media magazines for 40 cartridges.			
• HP SURESTORE E DLT TAPE LIBRARY 6/60 (RACKMOUNT UNIT - HVDS)	A5587A		
• HP SURESTORE E DLT TAPE LIBRARY 6/60 (RACKMOUNT UNIT - LVDS)	A4684A		
Requires 2, 4, or 6 DLT tape drives (not included); includes empty media magazines for 60 cartridges.			
• HP SURESTORE E DLT TAPE LIBRARY 6/60 (STANDALONE UNIT - HVDS)	A5588A		
• HP SURESTORE E DLT TAPE LIBRARY 6/60 (STANDALONE UNIT - LVDS)	A4685A		
Requires 2, 4, or 6 DLT tape drives (not included); includes empty media magazines for 60 cartridges.			
• HP SURESTORE E DLT TAPE LIBRARY 6/140 (HVDS)	A4669A		
• HP SURESTORE E DLT TAPE LIBRARY 6/140 (LVDS)	A4670A		
Requires 4 or 6 DLT tape drives (not included); includes empty media magazines for 100 cartridges.			
<b>DLT Tape Drives – Required with all DLT libraries</b>			
• HP SureStore E DLT 8000 Tape Drive – HVDS	A5589A		
Factory Installation – Installs tape drives in library at the factory. (This option is required with all orders that include a tape library. To order a separate additional drive for upgrade or other purposes, use a separate order section and order the drive as an accessory without the OD1 option.)		OD1	
• HP SureStore E DLT 8000 Tape Drive - LVDS	A4686A		
Factory Installation – Installs tape drives in library at the factory. (This option is required with all orders that include a tape library. To order a separate additional drive for upgrade or other purposes, use a separate order section and order the drive as an accessory without the OD1 option.)		OD1	
<b>Ultrium Tape Libraries</b>			
• HP SURESTORE E ULTRIUM TAPE LIBRARY 2/20 (RACKMOUNT UNIT - HVDS)	A6310A		
• HP SURESTORE E ULTRIUM TAPE LIBRARY 2/20 (RACKMOUNT UNIT - LVDS)	A6311A		
Requires 1 or 2 Ultrium tape drives (not included); includes empty media magazines for 20 cartridges.			
• HP SURESTORE E ULTRIUM TAPE LIBRARY 2/20 (STANDALONE UNIT - HVDS)	A6312A		
• HP SURESTORE E ULTRIUM TAPE LIBRARY 2/20 (STANDALONE UNIT - LVDS)	A6313A		
Requires 1 or 2 Ultrium tape drives (not included); includes empty media magazines for 20 cartridges.			
• HP SURESTORE E ULTRIUM TAPE LIBRARY 4/40 (RACKMOUNT UNIT - HVDS)	A6314A		
• HP SURESTORE E ULTRIUM TAPE LIBRARY 4/40 (RACKMOUNT UNIT - LVDS)	A6315A		
Requires 2 or 4 Ultrium tape drives (not included); includes empty media magazines for 40 cartridges.			
• HP SURESTORE E ULTRIUM TAPE LIBRARY 4/40 (STANDALONE UNIT - HVDS)	A6316A		
• HP SURESTORE E ULTRIUM TAPE LIBRARY 4/40 (STANDALONE UNIT - LVDS)	A6317A		
Requires 2 or 4 Ultrium tape drives (not included); includes empty media magazines for 40 cartridges.			
• HP SURESTORE E ULTRIUM TAPE LIBRARY 6/60 (RACKMOUNT UNIT - HVDS)	A6318A		
• HP SURESTORE E ULTRIUM TAPE LIBRARY 6/60 (RACKMOUNT UNIT - LVDS)	A6319A		
Requires 2, 4, or 6 Ultrium tape drives (not included); includes empty media magazines for 60 cartridges.			
• HP SURESTORE E ULTRIUM TAPE LIBRARY 6/60 (STANDALONE UNIT - HVDS)	A6320A		
• HP SURESTORE E ULTRIUM TAPE LIBRARY 6/60 (STANDALONE UNIT - LVDS)	A6321A		
Requires 2, 4, or 6 Ultrium tape drives (not included); includes empty media magazines for 60 cartridges.			
• HP SURESTORE E ULTRIUM TAPE LIBRARY 6/140 (HVDS)	A4665A		



Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>HP SURESTORE E ULTRIUM TAPE LIBRARY 6/140 (LVDS) Requires 4 or 6 Ultrium tape drives (not included); includes empty media magazines for 100 cartridges.</li> </ul>	A4666A		
<b>Ultrium Tape Drives– Required with all Ultrium libraries</b>			
<ul style="list-style-type: none"> <li>HP SureStore E Ultrium Tape Drive – HVDS Factory Installation – Installs tape drives in library at the factory. (This option is required with all orders that include a tape library. To order a separate additional drive for upgrade or other purposes, use a separate order section and order the drive as an accessory without the OD1 option.)</li> </ul>	A6306A	OD1	
<ul style="list-style-type: none"> <li>HP SureStore E Ultrium Tape Drive – HVDS Factory Installation – Installs tape drives in library at the factory. (This option is required with all orders that include a tape library. To order a separate additional drive for upgrade or other purposes, use a separate order section and order the drive as an accessory without the OD1 option.)</li> </ul>	A6307A	OD1	
<b>Fibre Channel Interfaces</b>			
<ul style="list-style-type: none"> <li>HP SureStore E Fibre Channel Interface – DLT HVDS Factory Installation – Installs fibre channel interface in library at the factory. (Required unless ordering as an accessory.)</li> </ul>	A5590A	OD1	
<ul style="list-style-type: none"> <li>HP SureStore E Fibre Channel Interface – Ultrium LVDS Factory Installation – Installs fibre channel interface in library at the factory. (Required unless ordering as an accessory.)</li> </ul>	A4674A	OD1	
<ul style="list-style-type: none"> <li>HP SureStore E Fibre Channel Interface – DLT LVDS (for field upgrade only)</li> </ul>	A4687A		
<b>Upgrades, Power Supplies, and Magazines</b>			
<ul style="list-style-type: none"> <li>20 to 40 Slot Upgrade Kit for 2/20 DLT Library</li> <li>40 to 60 Slot Upgrade Kit for 4/40 DLT Library</li> <li>20 to 40 Slot Upgrade Kit for 2/20 Ultrium Library</li> <li>40 to 60 Slot Upgrade Kit for 4/40 Ultrium Library</li> <li>100 Slot to 120 and 140 Slot Upgrade Kit for 6/140 DLT Library Factory installation – installs upgrade kits for 6/140 at the factory. (This option is required with all orders for a 4,6/120 or 4,6/140 slot library; the kit upgrades the library in 20 slot increments. To order a capacity upgrade kit to upgrade from a 100 slot library to a 120 or 140 slot library in the field, use a separate order section and order the capacity upgrade kit without the OD1 option.)</li> <li>100 Slot to 120 and 140 Slot Upgrade Kit for 6/140 Ultrium Library</li> <li>DLT Redundant Power Supply (for use with 2/20 through 6/140 DLT tape libraries)</li> <li>Ultrium Redundant Power Supply (for use with 2/20 through 6/140 Ultrium tape libraries)</li> <li>2/20-6/140 DLT 5-Slot Removable Magazine (with five pieces of media)</li> <li>2/20-6/140 DLT 5-Slot Removable Magazine (empty)</li> <li>2/20-6/140 Ultrium 5-Slot Removable Magazine (with five pieces of media)</li> <li>2/20-6/140 Ultrium 5-Slot Removable Magazine (empty)</li> </ul>	A1378A A1379A A6325A A6326A A4671A A4668A A4667A A4676A C7236J C7235J C9554A C9553A	OD1	
<b>Enclosures, Rack Mount Kits, and Shipping Packages</b>			
<ul style="list-style-type: none"> <li>Desktop Enclosure Kit for 20 Slot Library</li> <li>Deskside Enclosure Kit for 40 Slot Library</li> <li>Deskside Enclosure Kit for 60 Slot Library</li> <li>Rackmount Kit for 2/20</li> <li>Rackmount Kit for 4/40</li> <li>Rackmount Kit for 6/60</li> <li>Return Shipping Package Kit for Rackmount 2/20</li> <li>Return Shipping Package Kit for Desktop 2/20</li> <li>Return Shipping Package Kit for Rackmount 4/40</li> <li>Return Shipping Package Kit for Deskside 4/40</li> <li>Return Shipping Package Kit for Rackmount 6/60</li> <li>Return Shipping Package Kit for Deskside 6/60</li> <li>Return Shipping Packaging Kit for 6/140</li> </ul>	C7204J C7216J C7232J C7205J C7217J C7233J C7206J C7207J C7218J C7219J C7234J C7241J C9174S		
<b>Multimode Cables for Tape Drives</b>			
<ul style="list-style-type: none"> <li>SCSI Cable 0.5m HDTS 68 pin Male/Male Multimode cable</li> <li>SCSI Cable 1 m HDTS 68 pin Male/Male Multimode cable</li> </ul>	C2978B C2911C		

Description	Product #	Opt #	Price
• SCSI Cable 1.5m HDTS 68 pin Male/Male Multimode cable	C2979B		
• SCSI Cable 2.5m HDTS 68 pin Male/Male Multimode cable	C2924C		
• SCSI Cable 5 m HDTS 68 pin Male/Male Multimode cable	C7521A		
• SCSI Cable 10 m HDTS 68 pin Male/Male Multimode cable	C7522A		
• SCSI Cable 1 m VHDS 68 pin Male/Male Multimode cable	C2361B		
• SCSI Cable 2.5 m VHDS 68 pin Male/Male Multimode cable	C2362B		
• SCSI Cable 5 m VHDS 68 pin Male/Male Multimode cable	C2365B		
• SCSI Cable 10 m VHDS 68 pin Male/Male Multimode cable	C2363B		
• SCSI Terminator LVDS/SE HDTS 68 Multimode	C2364A		
• SCSI Terminator LVDS/SE VHDS 68 Multimode	C2370A		

#### 4.7.6—SureStore E High-End Tape Libraries and Accessories

Description	Product #	Opt #	Price
<b>Tape Libraries</b>			
• HP SureStore E Tape Library 10/180 Requires 1 to 10 DLT drives, 1 to Ultrium drives, 1 to 6 9840 drives or a mixture of all types (not included); includes empty media magazines for 84 cartridges	A5617A		
• HP SureStore E Tape Library 20/700 Requires 1 to 20 DLT drives, 1 to 20 Ultrium drives, 1 to 12 9840 drives or a mixture of all types (not included); includes empty media magazines for 216 cartridges.	A5597A		
<b>Tape Drives – Required with all libraries</b>			
• HP SureStore E DLT 8000 Tape Drive for 10/180 or 20/700 Library	A5599A		
• HP SureStore E Ultrium Tape Drive LVDS for 10/180 or 20/700 Library	A6322A		
• HP SureStore E Ultrium Tape Drive HVDS for 10/180 or 20/700 Library	A6323A		
• HP SureStore E 9840 Tape Drive for 10/180 or 20/700 Library  Note: Mixing and matching DLT 8000 tape drives, Ultrium tape drives and 9840 tape drives in the same library is supported in the 10/180 and 20/700 libraries. However, since the 9840 tape drive assembly is larger in size than the DLT 8000 tape drive and Ultrium tape drives, it is not a 1:1 ratio between drive types. The correct ratio is approximately 3:1, DLT/Ultrium to 9840 tape drives. Alone, only 12×9840 drives fill the allowable drive space in a 20/700 library and only 6×9840 drives fill the allowable drive space in a 10/180 library. If you are using only DLT 8000 tape drives and Ultrium tape drives the ratio is 1:1 since the Ultrium Tape drive is a little smaller than the DLT tape drives. See HP9000 Configuration Guide for specific combinations of drives.	A5598A		
<b>Upgrade Kits</b>			
• Expansion module to convert base 10/180 Library from 84 to 140 slots	A1376A		
• Expansion module to convert base 10/180 Library from 140 to 174 slots Note: Requires 56 slot expansion (A1376A) to be installed first.	A1377A		
• Expansion module to convert base 20/700 Library from 216 to 384 slots	A5604A		
• Expansion module to convert base 20/700 Library from 384 to 678 slots	A5605A		
• Second Drive Tower to convert from 10 drive capacity to 20 drive capacity for 20/700 Library	A5600A		
• Second Cartridge Access Port to convert from 20 to 40 cartridge import/export for 20/700 Library	A5601A		
• Secondary Power Supply for 10/180 Library	A6327A		
<b>Multimode Cables for Tape Drives</b>			
• SCSI Cable 0.5m HDTS 68 pin Male/Male Multimode cable	C2978B		
• SCSI Cable 1 m HDTS 68 pin Male/Male Multimode cable	C2911C		
• SCSI Cable 1.5m HDTS 68 pin Male/Male Multimode cable	C2979B		
• SCSI Cable 2.5m HDTS 68 pin Male/Male Multimode cable	C2924C		
• SCSI Cable 5 m HDTS 68 pin Male/Male Multimode cable	C7521A		
• SCSI Cable 10 m HDTS 68 pin Male/Male Multimode cable	C7522A		
• SCSI Cable 1 m VHDS 68 pin Male/Male Multimode cable	C2361B		
• SCSI Cable 2.5 m VHDS 68 pin Male/Male Multimode cable	C2362B		
• SCSI Cable 5 m VHDS 68 pin Male/Male Multimode cable	C2365B		
• SCSI Cable 10 m VHDS 68 pin Male/Male Multimode cable	C2363B		



Description	Product #	Opt #	Price
• SCSI Terminator LVDS/SE HDTS 68 Multimode	C2364A		
• SCSI Terminator LVDS/SE VHDS 68 Multimode	C2370A		

### 4.7.7—SureStore E Disk System HVD10

Description	Product #	Opt #	Price
• <b>A5616A SureStore E Disk System HVD10 Field Rackable (requires CE installation)</b>	A5616A		
Includes 1 power supply, 1 blower module, 1 Bus Control Card, 1 power cord, 1 A5250A Rack Rail Accessory Kit and ½ U filler panel. Accommodates 10 Half High or 10 Low Profile disk modules. Order A5656A when installing this product into a Rittal 9000 series rack.			
Add on Power Supply and Blower Module		001	
Add on A5251A HP Rack System /E Rack Rail Accessory Kit (replaces A5250A)		002	
Add on Bus Control Card		003	
4x18.2GB 10K RPM Ultra2 SCSI Disk Drives		204	
8x18.2GB 10K RPM Ultra2 SCSI Disk Drives		208	
10x18.2GB 10K RPM Ultra2 SCSI Disk Drives		210	
4x 36.4GB 10K RPM Ultra2 SCSI Disk Drives		304	
8x 36.4GB 10K RPM Ultra2 SCSI Disk Drives		308	
10x 36.4GB 10K RPM Ultra2 SCSI Disk Drives		310	
4x 73.4GB 10K RPM Ultra2 SCSI Disk Drives		404	
8x 73.4GB 10K RPM Ultra2 SCSI Disk Drives		408	
10x 73.4GB 10K RPM Ultra2 SCSI Disk Drives		410	
73.4 GB 10K RPM Ultra 3 SCSI Disk Drive (Note: Order quantity 1 to 10 per enclosure)		350	
4X18.2GB 15K RPM Ultra2 SCSI Disk Drive		504	
8X18.2GB 15K RPM Ultra2 SCSI Disk Drive		508	
10X18.2GB 15K RPM Ultra2 SCSI Disk Drive		510	
0.9M 68 pin HD to 68 pin HD cable (M/M)		801	
2.5M 68 pin HD to 68 pin HD cable (M/M)		802	
5M 68 pin HD to 68 pin HD cable (M/M)		803	
10M 68 pin HD to 68 pin HD cable (M/M)		804	
20M 68 pin HD to 68 pin HD cable (M/M)		805	
1M 68P HD LP to 68P HD LP SCSI cable		806	
2.5M 68P HD LP to 68P HD LP SCSI cable		807	
5M 68P HD LP to 68P HD LP SCSI cable		808	
10M 68P HD LP to 68P HD LP SCSI cable		809	
1M VHDCI to 68 pin HD SCSI cable		811	
2.5 M VHDCI to 68 pin HD SCSI cable		812	
5M VHDCI to 68 pin HD SCSI cable		813	
10M VHDCI to 68 pin HD SCSI cable		814	
2M V cable (68 pin HD) male cable		840	
2M V cable VHDCI/VHDCI/68 pin HD		841	
2M V cable VHDCI/VHDCI I/L Term/68 pin HD		842	
2M V cable 68 pin HD/VHDCI/68 pin HD		843	
2M V cable 68 pin HD/VHDCI I/L Term/68 HD		844	
SCSI Cable 10M HDTS68 ILT (M/M)		851	
SCSI Cable 2/5m HDTS68 V (M/M)		871	
SCSI Cable 2/3m HDTS68 V (M/M)		873	
SCSI Cable 5m HDTS68 ILT (M/M)		875	
5 M VHDS68/HDTS68 HVD ILT (M/M)		877	
10 M VHDS68/HDTS68 HVD ILT (M/M)		878	
4M V cable VHDCI-VHDCI-68 pin HD		B25	
4M V cable VHDCI-VHDCI I/L Term-68 pin HD		B26	
4M V cable 68 pin HD-VHDCI-68 pin HD		B27	
4M V cable 68 pin HD-VHDCI I/L Term-68 HD		B28	
• Field Install Swing Out Bracket for PDU	A5612A		
• <b>A5616AZ SureStore E Disk System HVD10 Factory Racked</b>	A5616AZ		



Description	Product #	Opt #	Price
Includes 1 power supply, 1 blower module, 1 Bus Control Card, 1 power cord, and 1 A5251A HP Rack System /E Rack Rail Accessory Kit. Accommodates 10 Half High or 10 Low Profile disk Modules			
Add on Power Supply and Blower Module		001	
Add on Bus Control Card		003	
4x18.2GB 10K RPM Ultra2 SCSI Disk Drives		204	
8x18.2GB 10K RPM Ultra2 SCSI Disk Drives		208	
10x18.2GB 10K RPM Ultra2 SCSI Disk Drives		210	
4x 36.4GB 10K RPM Ultra2 SCSI Disk Drives		304	
8x 36.4GB 10K RPM Ultra2 SCSI Disk Drives		308	
10x 36.4GB 10K RPM Ultra2 SCSI Disk Drives		310	
4x 73.4GB 10K RPM Ultra2 SCSI Disk Drives		404	
8x 73.4GB 10K RPM Ultra2 SCSI Disk Drives		408	
10x 73.4GB 10K RPM Ultra2 SCSI Disk Drives		410	
73.4 GB 10K RPM Ultra 3 SCSI Disk Drive (Note: Order quantity 1 to 10 per enclosure)		350	
4X18.2GB 15K RPM Ultra2 SCSI Disk Drive		504	
8X18.2GB 15K RPM Ultra2 SCSI Disk Drive		508	
10X18.2GB 15K RPM Ultra2 SCSI Disk Drive		510	
0.9M 68 pin HD to 68 pin HD cable (M/M)		801	
2.5M 68 pin HD to 68 pin HD cable (M/M)		802	
5M 68 pin HD to 68 pin HD cable (M/M)		803	
10M 68 pin HD to 68 pin HD cable (M/M)		804	
20M 68 pin HD to 68 pin HD cable (M/M)		805	
1M 68P HD LP to 68P HD LP SCSI cable		806	
2.5M 68P HD LP to 68P HD LP SCSI cable		807	
5M 68P HD LP to 68P HD LP SCSI cable		808	
10M 68P HD LP to 68P HD LP SCSI cable		809	
1M VHDCI to 68 pin HD SCSI cable		811	
2.5M VHDCI to 68 pin HD SCSI cable		812	
5M VHDCI to 68 pin HD SCSI cable		813	
10M VHDCI to 68 pin HD SCSI cable		814	
2M V cable (68 pin HD) male cable		840	
2M V cable VHDCI/VHDCI/68 pin HD		841	
2M V cable VHDCI/VHDCI I/L Term/68 pin HD		842	
2M V cable 68 pin HD/VHDCI/68 pin HD		843	
SCSI Cable 10M HDTS68 ILT (M/M)		851	
SCSI Cable 2/5m HDTS68 V (M/M)		871	
SCSI Cable 2/3m HDTS68 V (M/M)		873	
SCSI Cable 5m HDTS68 ILT (M/M)		875	
5M VHDS68/HDTS68 HVD ILT (M/M)		877	
10M VHDS68/HDTS68 HVD ILT (M/M)		878	
4M V cable VHDCI-VHDCI-68 pin HD		B25	
4M V cable VHDCI-VHDCI I/L Term-68 pin HD		B26	
4M V cable 68 pin HD-VHDCI-68 pin HD		B27	
4M V cable 68 pin HD-VHDCI I/L Term-68 HD		B28	
• Add on Blower Module	A5629A		
• Add on Power Supply	A5630A		
• Add on Bus Controller Card	A5632A		
• HVD10 to SC10 Upgrade Kit	A5664A		
Add on Power Supply and Blower Module		001	
Add on Bus Control Card		003	
2M VHDCI Ultra SCSI Cable		860	
5M VHDCI Ultra SCSI Cable		861	
2M VHDCI/VHDCI Ultra SCSI Cable with In-Line Termination		862	
5M VHDCI/VHDCI Ultra SCSI Cable with In-Line Termination		863	
• Add on 18.2 GB 10K RPM High Performance Ultra2 SCSI LVD Disk Module	A5282A		
• Add on 36.4 GB 10K RPM High Performance Ultra2 SCSI LVD Disk Module	A5595A		
• Add on 73.4 GB 10K RPM High Performance Ultra2 SCSI LVD Disk Module	A5622A		

Description	Product #	Opt #	Price
• Add on 73.4 GB 10K RPM High Performance Ultra3 SCSI LVD Disk Module	A6276A		
• Add on 18.2 GB 15K RPM High Performance Ultra2 SCSI LVD Disk Module	A5633A		
• Rack Rail Accessory Kit	A5250A		
• HP Rack System /E Rack Rail Accessory Kit	A5251A		
• Factory Install Swing Out Bracket for PDU	A5612AZ		
• Add on FW HVD SCSI Cables for SureStore E Disk System HVD10	A3401A		
5 M 68 pin HD to 68 pin HD cable (M/M)		001	
2 M 50 pin LD to 68 pin HD cable (M/M)		002	
1 M 50 pin LD female to 68 pin HD cable		003	
2 M V cable (68 pin HD) male cable		004	
0.5M 68 pin HD to 68 pin HD cable (M/M)		005	
1M 68P HD LP to 68P HD LP SCSI cable		806	
2.5M 68P HD LP to 68P HD LP SCSI cable		807	
5M 68P HD LP to 68P HD LP SCSI cable		808	
10M 68P HD LP to 68P HD LP SCSI cable		809	
1M VHDCI to 68 pin HD SCSI cable		811	
2.5 M VHDCI to 68 pin HD SCSI cable		812	
5M VHDCI to 68 pin HD SCSI cable		813	
10M VHDCI to 68 pin HD SCSI cable		814	
SCSI Cable 20M HDTS68 ILT (M/M)		831	
SCSI Cable 10M HDTS68 ILT (M/M)		851	
SCSI Cable 2/5M HDTS68 V (M/M)		871	
SCSI Cable 2/3M HDTS68 V (M/M)		873	
SCSI Cable 5M HDTS68 ILT (M/M)		875	
4M V cbl VHDCI-VHDCI-68 pin HD		B27	
4M V cbl VHDCI-VHDCI I/L term-68 pin HD		B25	
4M V cbl 68 pin HD-VHDCI-68 pin HD		B28	
4M V cbl 68 pin HD-VHDCI I/L term-68 HD		B26	
• 2.5M 68 pin HD to 68 pin HD cable (M/M)	C2924A		
• 10M 68 pin HD to 68 pin HD cable (M/M)	C2925A		
• 20M 68 pin HD to 68 pin HD cable (M/M)	C2926A		
• 0.5M VHDCI to 68 pin HD cable HVD ILT (M/F)	C7519A		
• 5M VHDCI to 68 pin HD cable HVD ILT (M/M)	C5766A		
• 10M VHDCI to 68 pin HD cable HVD ILT (M/M)	C5767A		

#### 4.7.8—SureStore E Disk System SC10

Description	Product #	Opt #	Price
• <b>A5272A SureStore E Disk System SC10 Field Rackable (requires GE installation)</b>	A5272A		
Includes 2 power supplies, 2 blower modules, 1 Bus Control Card, 2 power cords, 2 Rack Rail Kits and ½ U filler panel. Accommodates 10 Half High or 10 Low Profile disk modules. Order A5656A when installing this product into a Rittal 9000 series rack.			
Add-On Bus Controller Card		001	
Qty 4 18GB 10K HH Ultra2 SCSI LVD Drives		204	
Qty 8 18GB 10K HH Ultra2 SCSI LVD Drives		208	
Qty 10 18GB 10K HH Ultra2 SCSI LVD Drives		210	
Qty 4 36GB 10K HH Ultra2 SCSI LVD Drives		304	
Qty 8 36GB 10K HH Ultra2 SCSI LVD Drives		308	
Qty 10 36GB 10K HH Ultra2 SCSI LVD Drives		310	
Qty 4 73GB 10K HH Ultra2 SCSI LVD Drives		404	
Qty 8 73GB 10K HH Ultra2 SCSI LVD Drives		408	
Qty 10 73GB 10K HH Ultra2 SCSI LVD Drives		410	
73.4 GB 10K RPM Ultra 3 SCSI Disk Drive (Note: Order quantity 1 to 10 per enclosure)		350	
4X18.2GB 15K RPM Ultra2 SCSI Disk Drive		504	
8X18.2GB 15K RPM Ultra2 SCSI Disk Drive		508	
10X18.2GB 15K RPM Ultra2 SCSI Disk Drive		510	



Description	Product #	Opt #	Price
2M VHDCI Ultra SCSI Cable		860	
5M VHDCI Ultra SCSI Cable		861	
2M VHDCI/VHDCI Ultra SCSI Cable with In-Line Termination		862	
5M VHDCI to VHDCI LVD/SE I/L		863	
10M VHDCI Ultra SCSI Cable		864	
10M VHDCI Ultra SCSI Cable with In-Line Termination		865	
• Field Install Swing Out Bracket for PDU	A5612A		
• <b>A5272AZ SureStore E Disk System SC10 Factory Racked</b>	A5272AZ		
Includes 2 power supplies, 2 blower modules, 1 Bus Control Card, 2 power cords, 2 Rack Rail Kits And ½ U filler panel. Accommodates 10 Half High or 10 Low Profile disk modules			
Add-On Bus Controller Card		001	
Qty 4 18GB 10K HH Ultra2 SCSI LVD Drives		204	
Qty 8 18GB 10K HH Ultra2 SCSI LVD Drives		208	
Qty 10 18GB 10K HH Ultra2 SCSI LVD Drives		210	
Qty 4 36GB 10K HH Ultra2 SCSI LVD Drives		304	
Qty 8 36GB 10K HH Ultra2 SCSI LVD Drives		308	
Qty 10 36GB 10K HH Ultra2 SCSI LVD Drives		310	
Qty 4 73GB 10K HH Ultra2 SCSI LVD Drives		404	
Qty 8 73GB 10K HH Ultra2 SCSI LVD Drives		408	
Qty 10 73GB 10K HH Ultra2 SCSI LVD Drives		410	
73.4 GB 10K RPM Ultra 3 SCSI Disk Drive (Note: Order quantity 1 to 10 per enclosure)		350	
4X18.2GB 15K RPM Ultra2 SCSI Disk Drive		504	
8X18.2GB 15K RPM Ultra2 SCSI Disk Drive		508	
10X18.2GB 15K RPM Ultra2 SCSI Disk Drive		510	
2M VHDCI Ultra SCSI Cable		860	
5M VHDCI Ultra SCSI Cable		861	
2M VHDCI/VHDCI Ultra SCSI Cable with In-Line Termination		862	
5M VHDCI to VHDCI LVD/SE I/L		863	
10M VHDCI Ultra SCSI Cable		864	
10M VHDCI Ultra SCSI Cable with In-Line Termination		865	
• Add on Blower Module	A5629A		
• Add on Power Supply	A5630A		
• Add on Bus Controller Card	A5273A		
• Add on 18.2 GB 10K RPM High Performance Ultra2 SCSI LVD Module	A5282A		
• Add on 36.4 GB 10K RPM High Performance Ultra2 SCSI LVD Module	A5595A		
• Add on 73 GB 10K RPM High Performance Ultra2 SCSI LVD Module	A5622A		
• Add on 73.4 GB 10K RPM High Performance Ultra3 SCSI LVD Disk Module	A6276A		
• Add on 18.2 GB 15K RPM High Performance Ultra2 SCSI LVD Module	A5633A		
• 2M VHDCI Ultra SCSI Cable	A5306A		
• 5M VHDCI Ultra SCSI Cable	A5307A		
• 10M VHDCI Ultra SCSI Cable	A5308A		
• 2M VHDCI/VHDCI Ultra SCSI Cable with In-Line Termination	A5668A		
• 5M VHDCI/VHDCI Ultra SCSI Cable with In-Line Termination	A5669A		
• 10M VHDCI/VHDCI Ultra SCSI Cable with In-Line Termination	A5670A		
• Rack Rail Accessory Kit	A5250A		
• HP Rack System /E Rack Rail Accessory Kit	A5251A		
• Factory Install Swing Out Bracket for PDU	A5612AZ		

#### 4.7.9—SureStore E Disk System FC10

Description	Product #	Opt #	Price
• <b>A5236A SureStore E Disk System FC10 Field Rackable (requires CE installation)</b>	A5236A		
Includes 2 power supplies, 2 blower modules, 2 LCCs, 2 power cords, 2 Rack Rail Kits and ½ U filler panel. Accommodates 10 Half High or 10 Low Profile disk modules. Order A5656A when installing this product into a Rittal 9000 series rack.			



Description	Product #	Opt #	Price
2 each GBIC Fiber Optic-Shortwave (Must order additional count of 2 for daisy chaining)		001	
Qty 4 18GB 10K LP FC Drives		204	
Qty 8 18GB 10K LP FC Drives		208	
Qty 10 18GB 10K LP FC Drives		210	
Qty 4 36GB 10K FC Drives		304	
Qty 8 36GB 10K FC Drives		308	
Qty 10 36GB 10K FC Drives		310	
Qty 4 73GB 10K FC Drives		404	
Qty 8 73GB 10K FC Drives		408	
Qty 10 73GB 10K FC Drives		410	
73.4 GB 10K RPM FC Disk Drive (Note: Order quantity 1 to 10 per enclosure)		350	
Qty 4 18GB 15KFC Drives		504	
Qty 8 18GB 15K FC Drives		508	
Qty 10 18GB 15K FC Drives		510	
• Field Install Swing Out Bracket for PDU	A5612A		
• <b>A5236AZ Fibre Channel High Availability Storage System FC10 Factory Racked</b>	A5236AZ		
Includes 2 power supplies, 2 blower modules, 2 LCCs. Accommodates 10 Half High or 10 Low Profile disk modules			
2 each GBIC Fiber Optic-Shortwave (Must order additional count of 2 for daisy chaining)		001	
Qty 4 18GB 10K LP FC Drives		204	
Qty 8 18GB 10K LP FC Drives		208	
Qty 10 18GB 10K LP FC Drives		210	
Qty 4 36GB 10K FC Drives		304	
Qty 8 36GB 10K FC Drives		308	
Qty 10 36GB 10K FC Drives		310	
Qty 4 73GB 10K FC Drives		404	
Qty 8 73GB 10K FC Drives		408	
Qty 10 73GB 10K FC Drives		410	
73.4 GB 10K RPM FC Disk Drive (Note: Order quantity 1 to 10 per enclosure)		350	
Qty 4 18GB 15K FC Drives		504	
Qty 8 18GB 15K FC Drives		508	
Qty 10 18GB 15K FC Drives		510	
2 Meter Fibre Channel cable		0Z4	
16 Meter Fibre Channel cable		AFY	
50 Meter Fibre Channel cable		0Z5	
100 Meter Fibre Channel cable		0Z6	
• Add on 18GB 10K RPM High Performance Fibre Channel Disk Module	A5234A		
• Add on 36GB 10K RPM High Performance Fibre Channel Disk Module	A5596A		
• Add on 73GB 10K RPM High Performance Fibre Channel Disk Module	A5627A		
• Add on 73GB 10K RPM High Performance Fibre Channel Disk Module	A6487A		
• Add on 18GB 15K RPM High Performance Fibre Channel Disk Module	A5634A		
• 1 each Giga-Bit Interface Converter (Optical Short-Wave)	A5245A		
• Rack Rail Accessory Kit	A5250A		
• HP Rack System /E Rack Rail Accessory Kit	A5251A		
• Factory Install Swing Out Bracket for PDU	A5612AZ		

## Subchapter 4.8—Optical Storage

Description	Product #	Opt #	Price
<b>Magneto-Optical Disk Drives</b>			
<i>Optical Jukeboxes - 14x (9.1 GB Magneto-Optical Disk Drives)</i>			
• <b>HP SureStore 220mx MO Jukebox (218.4GB) - 1 drive, 24 slots</b>	C1118M		
MO jukebox with 1 multifunction 9.1 GB optical disk drive, capacity for up to 24 rewritable or CCW WORM optical disks, auto-sensing single-ended / LVD SCSI interface (HDTs 68), one			





Description	Product #	Opt #	Price
9.1 GB rewritable optical disk (4096 byte/sector), one year, on-site warranty and freight. Customer installable. Upgradeable to 2 drives. Note: Interface cable must be ordered separately.			
<ul style="list-style-type: none"> <li> <b>HP SureStore 220mx MO Jukebox (218.4 GB) - 2 drive, 24 slots</b>            MO jukebox with 2 multifunction 9.1 GB optical disk drives, capacity for up to 24 rewritable or WORM optical disks, auto-sensing single-ended / LVD SCSI interface (HDTS 68), one 9.1 GB CCW rewritable optical disk (4096 byte/sector), one year, on-site warranty and freight. Customer installable. Note: Interface cable must be ordered separately.         </li> </ul>	C1119M		
<ul style="list-style-type: none"> <li> <b>HP SureStore 300mx MO Jukebox (291.2 GB) - 2 drive, 32 slots</b>            MO jukebox with 2 multifunction 9.1 GB optical disk drives, capacity for up to 32 rewritable or CCW WORM optical disks, two-disk transport system, user-selectable single-ended SCSI (HDTS 50) or Fast Differential SCSI (HDTS 68) interface, one 9.1 GB rewritable optical disk (4096 byte/sector), one year, on-site warranty and freight. Customer installable. Upgradeable to 4 drive, 64 slots.            Note: Interface cable must be ordered separately         </li> </ul>	C1150M		
<ul style="list-style-type: none"> <li> <b>HP SureStore 600mx MO Jukebox (582.4 GB) - 4 drive, 64 slots</b>            MO jukebox with 4 multifunction 9.1 GB optical disk drives, capacity for up to 64 rewritable or CCW WORM optical disks, two-disk transport system, user-selectable single-ended SCSI (HDTS 50) or Fast Differential SCSI (HDTS 68) interface, one 9.1 GB rewritable optical disk (4096 byte/sector), one year, on-site warranty and freight. Customer installable.            Note: Interface cable must be ordered separately         </li> </ul>	C1160M		
<ul style="list-style-type: none"> <li> <b>HP SureStore 700mx MO Jukebox (691.6 GB) - 2 drive, 76 slots</b>            MO jukebox with 2 multifunction 9.1 GB optical disk drives, capacity for up to 76 rewritable or CCW WORM optical disks, two-disk transport system, user-selectable single-ended SCSI (HDTS 50) or Fast Differential SCSI (HDTS 68) interface, one 9.1 GB rewritable optical disk (4096 byte/sector), one year, on-site warranty and freight. Customer installable.            Note: Interface cable must be ordered separately         </li> </ul>	C1170M		
<ul style="list-style-type: none"> <li> <b>HP SureStore 1200mx Jukebox (1164.8 GB) - 4 drive, 128 slots</b>            MO jukebox with 4 multifunction 9.1 GB optical disk drives, capacity for up to 128 rewritable or CCW WORM optical disks, two-disk transport system, user-selectable single-ended SCSI (HDTS 50)Fast Differential SCSI (HDTS 68) interface, one 9.1 GB rewritable optical disk (4096 byte/sector),one year, on-site warranty, freight and installation. Upgradeable to 6 drive/128 slots, 4 drive/238 slots, 6 drive/238 slots or 10 drive/238 slots.            Note: Interface cable must be ordered separately            Delete Installation         </li> </ul>	C1104M		
<ul style="list-style-type: none"> <li> <b>HP SureStore 1200mx Jukebox (1164.8 GB) - 6 drive, 128 slots</b>            MO jukebox with 6 multifunction 9.1 GB optical disk drives, capacity for up to 128 rewritable or CCW WORM optical disks, two-disk transport system, user-selectable single-ended SCSI (HDTS 50)Fast Differential SCSI (HDTS 68) interface, one 9.1 GB rewritable optical disk (4096 byte/sector),one year, on-site warranty, freight and installation. Upgradeable to 6 drive/238 slots or 10 drive/238slots            Note: Interface cable must be ordered separately         </li> </ul>	C1105M	0D4	
<ul style="list-style-type: none"> <li> <b>HP SureStore 2200mx Jukebox (2165.8 GB) - 6 drive, 238 slots</b>            MO jukebox with 6 multifunction 9.1 GB optical disk drives, capacity for up to 238 rewritable or CCW WORM optical disks, two-disk transport system, user-selectable single-ended SCSI (HDTS 50) Fast Differential SCSI (HDTS 68) interface, one 9.1 GB rewritable optical disk (4096 byte/sector), one year, on-site warranty, freight and installation. Upgradeable to 10 drive/238 slots            Note: Interface cable must be ordered separately            Delete Installaton         </li> </ul>	C1107M		
<ul style="list-style-type: none"> <li> <b>HP SureStore 2200mx Jukebox (2165.8 GB) - 10 drive, 238 slots</b>            MO jukebox with 10 multifunction 9.1 GB optical disk drives, capacity for up to 238 rewritable or CCW WORM optical disks, two-disk transport system, user-selectable single-ended SCSI (HDTS 50) Fast Differential SCSI (HDTS 68) interface, one 9.1 GB rewritable optical disk         </li> </ul>	C1110M		

**Chapter 4**  
**Storage, Accessories, and Other Peripherals**



Description	Product #	Opt #	Price
(4096 byte/sector), one year, on-site warranty, freight and installation. Note: Interface cable must be ordered separately Delete Installation		OD4	
• <b>HP SureStore 2200mx Jukebox (2165.8 GB) - 4 drive, 238 slots</b>	C1111M		
MO jukebox with 4 multifunction 9.1 GB optical disk drives, capacity for up to 238 rewritable or CCW WORM optical disks, two-disk transport system, user-selectable single-ended SCSI (HDTS 50) Fast Differential SCSI (HDTS 68) interface, one 9.1 GB rewritable optical disk (4096 byte/sector), one year, on-site warranty, freight and installation. Upgradeable to 6 drives, 238 slots or 10 drives, 238 slots. Note: Interface cable must be ordered separately. Delete Installation		OD4	
• <b>HP SureStore 9100mx Optical Subsystem (9.1 GB)</b>	C1114M		
Standalone MO drive with 1 multifunction 9.1 GB optical disk drive, capacity for one rewritable or CCW WORM optical disk, single-ended SCSI interface (HDTS 50), Macintosh, Windows®95/98/2000/NT® drivers, one 9.1 GB rewritable optical disk (4096 byte/sector), one year overnight exchange warranty and freight. Customer installable Note: Interface cable must be ordered separately.			
<b>Optical Jukebox Upgrade Kits: 9.1 GB Jukeboxes</b> <b>(Upgrades increase the number of drives and/or capacity)</b>			
• <b>Drive Upgrade Kit for HP SureStore 220mx (1 drive, 24 slot Jukebox)</b>	C5130M		
Includes one 9.1 GB optical disk drive, mounting hardware and installation Delete Installation		OD4	
• <b>Drive and Capacity Upgrade for HP SureStore 300mx (2 drive, 32 slot Jukebox)</b>	C1155M		
Includes two 9.1GB optical disk drives, mounting hardware and installation Delete Installation		OD4	
• <b>Two Drive Upgrade Kit for 1200mx and 2200mx</b>	C1154M		
Includes two 9.1 GB optical disk drives, mounting hardware and installation Delete Installation		OD4	
• <b>Capacity Upgrade Kit for 1200mx</b>	C1159M		
Adds 110 slot capacity. Includes controller electronics, mounting hardware and installation Delete Installation		OD4	
• <b>Four Drive Upgrade for 2200mx</b>	C1158M		
Includes four 9.1GB optical disk drives, 2 <sup>nd</sup> SCSI bus, mounting hardware and installation Delete Installation		OD4	
<i>Optical Jukeboxes - 8x (5.2 GB Magneto-Optical Disk Drives)</i>			
• <b>HP Optical Library 1/24 (124.8 GB) - 1 drive, 24 slots</b>	C1118K		
Includes cabinet, 1 multifunction 8x (5.2 GB) optical disk drives, capacity for up to 24 rewritable or CCW WORM optical disks, auto-sensing single-ended / LVD SCSI interface (HDTS 68 ), users guide, one 8x (5.2 GB) rewritable optical disk (1024 byte sectors), one auto-sensing SE / LVD SCSI terminator, one year on-site warranty and freight. Customer installable. Upgradeable to 2 drives. Note: Interface cable must be ordered separately.			
• <b>HP Optical Library 2/32 (166.4 GB) - 2 drives, 32 slots</b>	C1150K		
Includes cabinet, 2 multifunction 8x (5.2 GB) optical disk drives, capacity for up to 32 rewritable or CCW WORM optical disks, two-disk transport system, on-line drive replacement, user-selectable single-ended SCSI (HDTS 50) or Fast Differential SCSI (HDTS 68) interface, users guide, one 8x (5.2 GB) rewritable optical disk (1024 byte sectors), one each SE and Differential SCSI terminators, one year on-site warranty and freight. Customer installable. Upgradeable to 4/64 (4 drives, 64 slots) Note: Interface cable must be ordered separately.			
• <b>HP Optical Library 4/64 (332.8 GB) - 4 drives, 64 slots</b>	C1160K		
Includes cabinet, 4 multifunction 8x (5.2 GB) optical disk drives, capacity for up to 64 rewritable or CCW WORM optical disks, two-disk transport system,			



Description	Product #	Opt #	Price
on-line drive replacement, user-selectable single-ended SCSI (HDT5 50) or Fast Differential SCSI (HDT5 68) interface, users guide, one 8x (5.2 GB) rewritable optical disk (1024 byte sectors), one each SE and Differential SCSI terminators, one year on-site warranty and freight. Customer installable. Note: Interface cable must be ordered separately.			
• <b>HP Optical Library 2/76 (395.2 GB) - 2 drives, 76 slots</b>	C1170K		
Includes cabinet, 2 multifunction 8x (5.2 GB) optical disk drives, capacity for up to 76 rewritable or CCW WORM optical disks, two-disk transport system, on-line drive replacement, user-selectable single-ended SCSI (HDT5 50) or Fast Differential SCSI (HDT5 68) interface, users guide, one 8x (2.6 GB) rewritable optical disk (1024 byte sectors), one each SE and Differential SCSI terminators, one year on-site warranty and freight. Customer installable. Note: Interface cable must be ordered separately.			
• <b>HP Optical Library 4/128 (665.6 GB) - 4 drives, 128 slots</b>	C1104K		
Includes cabinet, 4 multifunction 8x (5.2 GB) optical disk drives, capacity for up to 128 rewritable or CCW WORM optical disks, two-disk transport system, on-line drive replacement, user-selectable single-ended SCSI (HDT5 50) or Fast Differential SCSI (HDT5 68) interface, users guide, one 8x (5.2 GB) rewritable optical disk (1024 byte sectors), one each SE and Differential SCSI terminators, one year on-site warranty, freight and installation. Upgradable to 6/238. Note: Interface cable must be ordered separately.			
• <b>HP Optical Library 10/238 (1237.6 GB) - 10 drives, 238 slots</b>	C1110K		
Includes cabinet, 10 multifunction 8x (5.2 GB) optical disk drives, capacity for up to 238 rewritable or CCW WORM optical disks, two-disk transport system, on-line drive replacement, two user-selectable single-ended SCSI (HDT5 50) or Fast Differential SCSI (HDT5 68) buses, users guide, one 8x (5.2 GB) rewritable optical disk (1024 byte sectors), two each SE and Differential SCSI terminators, one year on-site warranty, freight and installation. Note: Interface cables must be ordered separately.			
• <b>HP Optical Library 4/238 (1237.6 GB) - 4 drives, 238 slots</b>	C1111K		
Includes cabinet, 4 multifunction 8x (5.2 GB) optical disk drives, capacity for up to 238 rewritable or CCW WORM optical disks, two-disk transport system, on-line drive replacement, user-selectable single-ended SCSI (HDT5 50) or Fast Differential SCSI (HDT5 68) interface, users guide, one 8x (5.2 GB) rewritable optical disk (1024 byte sectors), two each SE and Differential SCSI terminators, one year on-site warranty, freight and installation. Upgradable to 6/238 or 10/238. Note: Interface cables must be ordered separately.			
• <b>HP Optical Module 5200 Multifunction Disk Drive (5.2 GB)</b>	C1114K		
Includes cabinet, one 8x (5.2 GB) multifunction optical disk drives, capacity for one rewritable or CCW WORM optical disk, single-ended SCSI interface (HDT5 50), users guide, Macintosh, Windows®, and Windows NT® drivers, one 8x (5.2 GB) rewritable optical disk (1024 byte sectors), one SE SCSI terminator, one year overnight exchange warranty and freight. Customer installable. Note: Interface cable must be ordered separately. <i>Optical Jukebox Upgrade Kits: 5.2GB (8x) Jukeboxes (Upgrades increase the number of drives and/or capacity. Upgrades from 2x-to-4x converted jukeboxes are not supported)</i> Model 1/24 one-drive to Model 2/24 two-drive			
• <b>Drive Upgrade Kit for Model 1/24 (and older 1/16)</b>	C5130K		
Includes one 5.2 GB optical disk drive, mounting hardware and installation. Delete Installation		OD4	
• <b>Model 2/32 two-drive and 32 slots to Model 4/64 four-drive and 64 slots</b>			
• <b>Drive Upgrade Kit for Model 2/32</b>	C1155K		
Includes two 5.2 GB optical disk drives w/electronic capacity upgrade to enable an additional 32 slots. Also includes mounting hardware and installation			

Description	Product #	Opt #	Price
Delete Installation		0D4	
• <b>Two-Drive Upgrade Kit for Model 4/128 and 4/238</b>	C1154K		
Includes two 5.2 GB optical disks and mounting hardware w/installation.			
Delete Installation		0D4	
• <b>Capacity Upgrade Kit for 4/128 to 4/238</b>	C1159K		
Add 110 slots capacity			
Delete Installation		0D4	
• <b>Four-Drive Upgrade from 6-drive 238 slot jukebox to 10-drive 238-slot jukebox w/SCSI bus</b>	C1158K		
Delete Installation		0D4	
<b>Optical Jukebox Conversion Kits: 4x to 8x</b> (Conversion Kits exchange previous generation drives for next generation drives)			
• <b>40fx to 1/16 Conversion Kit</b>	C5130K		
Exchanges one 5.2 GB drive for one 2.6 GB drive. Use two kits to convert a 40fx with two drives. Includes installation.			
Delete Installation		0D4	
• <b>80fx to 2/32 Conversion Kit</b>	C5131K		
Exchanges two 5.2 GB drives for two 2.6 GB drives. Includes installation.			
Delete Installation		0D4	
• <b>160fx to 4/64 Conversion Kit</b>	C5132K		
Exchanges four 5.2 GB drives for four 2.6 GB drives. Includes installation.			
Delete Installation		0D4	
• <b>200fx to 2/76 Conversion Kit</b>	C5133K		
Exchanges two 5.2 GB drives for two 2.6 GB drives. Includes installation.			
Delete Installation		0D4	
• <b>330fx to 4/128 Conversion Kit</b>	C5138K		
Exchanges four 5.2 GB drives for four 2.6 GB drives. Includes installation.			
Delete Installation		0D4	
• <b>600fx to 4/238 Conversion Kit</b>	C5139K		
Exchanges four 5.2 GB drives for four 2.6 GB drives. Includes installation.			
Delete Installation		0D4	
<b>Optical Jukebox Conversion Kits: 4x to 14x</b> (Conversion Kits exchange previous generation drives for next generation drives)			
• <b>80fx to 300mx Conversion Kit</b>	C5131M		
Exchanges two 9.1 GB drives for two 2.6 GB drives. Includes installation.			
Delete Installation		0D4	
• <b>160fx to 600mx Conversion Kit</b>	C5132M		
Exchanges four 9.1 GB drives for four 2.6 GB drives. Includes installation			
Delete Installation		0D4	
• <b>200fx to 700mx Conversion Kit</b>	C5133M		
Exchanges two 9.1 GB drives for two 2.6 GB drives. Includes installation			
Delete Installation		0D4	
• <b>330fx to 1200mx Conversion Kit</b>	C5138M		
Exchanges four 9.1 GB drives for four 2.6 GB drives. Includes installation			
Delete Installation		0D4	
• <b>600fx to 2200mx Conversion Kit</b>	C5139M		
Exchanges four 9.1 GB drives for four 2.6 GB drives. Includes installation			
Delete Installation		0D4	
<b>Optical Jukebox Conversion Kits: 8x to 14x</b> (Conversion Kits exchange previous generation drives for next generation drives)			
• <b>125ex to 220mx Conversion Kit</b>	C5130M		
Exchanges one 9.1 GB drive for one 5.2 GB drive. Includes installation			
Delete Installation		0D4	



Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li><b>160ex to 300mx Conversion Kit</b></li> </ul>	C5131M		
Exchanges two 9.1 GB drives for two 5.2 GB drives. Includes installation			
Delete Installation		0D4	
<ul style="list-style-type: none"> <li><b>320ex to 600mx Conversion Kit</b></li> </ul>	C5187M		
Exchanges four 9.1 GB drives for four 5.2 GB drives. Includes installation			
Delete Installation		0D4	
<ul style="list-style-type: none"> <li><b>400ex to 700mx Conversion Kit</b></li> </ul>	C5188M		
Exchanges two 9.1 GB drives for two 5.2 GB drives. Includes installation			
Delete Installation		0D4	
<ul style="list-style-type: none"> <li><b>660ex to 1200mx Conversion Kit</b></li> </ul>			
Exchanges four 9.1 GB drives for four 5.2 GB drives. Includes installation	C5138M		
Delete Installation		0D4	
<ul style="list-style-type: none"> <li><b>1200ex to 2200mx Conversion Kit</b></li> </ul>			
Exchanges four 9.1 GB drives for four 5.2 GB drives. Includes installation	C5189M		
Delete Installation		0D4	
<b>14x Optical Disks: Single Disks</b>			
<ul style="list-style-type: none"> <li>5.25 inch 9.1 GB rewritable optical disk - 4096 bytes per sector</li> <li>5.25 inch 9.1 GB WORM optical disk - 4096 bytes per sector</li> <li>5.25 inch 8.6 GB rewritable optical disk - 2048 bytes per sector</li> <li>5.25 inch 8.6 GB WORM optical disk - 2048 bytes per sector</li> <li>5.25 inch 9.1 GB rewritable optical disk - 1024 bytes per sector</li> <li>5.25 inch 9.1 GB rewritable optical disk - 512 bytes per sector</li> </ul>	C7983A C7984A C7985A C7986A C7987A C7988A		
<b>8x Optical Disks: Single Disks</b>			
<ul style="list-style-type: none"> <li>5.25-inch 5.2 GB rewritable optical disk - 1024 bytes per sector</li> <li>5.25-inch 5.2 GB WORM optical disk - 1024 bytes per sector</li> <li>5.25-inch 5.2 GB rewritable optical disk - 2048 bytes per sector</li> <li>5.25-inch 5.2 GB WORM optical disk - 2048 bytes per sector</li> </ul>	88143J 88145J 88147J 88146J		
<b>4x Optical Disks: single disks</b>			
<ul style="list-style-type: none"> <li>5.25-inch 2.6 GB rewritable optical disk - 1024 bytes per sector</li> <li>5.25-inch 2.6 GB WORM optical disk - 1024 bytes per sector</li> <li>5.25-inch 2.3 GB rewritable optical disk - 512 bytes per sector</li> <li>5.25-inch 2.3 GB WORM optical disk - 512 bytes per sector</li> </ul>	92280F 92290F 92279F 92289F		
<b>2x Optical Disks: single disks</b>			
<ul style="list-style-type: none"> <li>5.25-inch 1.3 GB rewritable optical disk - 1024 bytes per sector</li> <li>5.25-inch 1.3 GB WORM optical disk - 1024 bytes per sector</li> <li>5.25-inch 1.2 GB rewritable optical disk - 512 bytes per sector</li> <li>5.25-inch 1.2 GB WORM optical disk - 512 bytes per sector</li> </ul>	92280T 92290T 92279T 92289T		

## Subchapter 4.9—Disk Arrays

### 4.9.1—Surestore Disk Array 12H (with AutoRAID technology) 12H w/FC MUX

Description	Product #	Opt #	Price
<b>HP Surestore Disk Array 12H (with AutoRAID technology) 12H with FC MUX (FC MUX optional)</b> <i>(To place orders for 12H with FC MUX, refer to sample order menus in the Design Guide at <a href="http://eps.rose.hp.com">http://eps.rose.hp.com</a>. (This site not available to channel partners) Full factory integration (including racking and cabling) is available only for configurations described in the Design Guide. Order A5147A for full factory integration of storage configurations described in the Design Guide. All cables [C2924A, C5167A, C2925A, and C2911A] must be ordered with the 0D1 option to ensure factory integration.)</i>			
<ul style="list-style-type: none"> <li> <b>Deskside Disk Array with AutoRAID</b> </li> </ul>	A3700AD		
<i>Standard Array Includes:</i> Deskside Array Enclosure Two Empty Controller slots Two Power Supplies (third power supply option available) Three Fan Modules Twelve empty Disk Slots 0.5 m Ultra-Flexible SCSI cable Fast Wide Differential SCSI Terminator Factory Installation into Deskside Cabinet Owners Guide and general usage document			
<b>High Availability Options</b>			
Third Power Supply Option		002	
<b>Storage Capacity Options (Minimum of 4 drives required)</b>			
4x18.2 GB 10K rpm Disk drive modules		184	
5x18.2 GB 10K rpm Disk drive modules		185	
8x18.2 GB 10K rpm Disk drive modules		188	
12x18.2 GB 10K rpm Disk drive modules		192	
4x36.4 GB 10K rpm Disk drive modules		314	
5x36.4 GB 10K rpm Disk drive modules		315	
8x36.4 GB 10K rpm Disk drive modules		318	
12x36.4 GB 10K Disk drive modules		322	
<b>Controllers (Must select Option 200 or Option 203)</b>			
One 96 MB HP Disk Array Controller with AutoRAID		200	
Two 96 MB HP Disk Array Controllers with AutoRAID		203	
<b>Cable Options</b>			
0.9 m 68-pin high-density male to 68-pin high-density male cable		801	
2.5 m 68-pin high-density male to 68-pin high-density male cable		802	
5.0 m 68-pin high-density male to 68-pin high-density male cable		803	
10.0 m 68-pin high-density male to 68-pin high-density male cable		804	
CA – 1M 68 Pin LP to 68 Pin HD LP		806	
CA – 2.5M 68 Pin LP to 68 Pin HD LP		807	
CA – 5.0M 68 Pin LP to 68 Pin HD LP		808	
CA – 10M 68 Pin LP to 68 Pin HD LP		809	
1.0M VHDCI to 68 Pin HD Cable		811	
2.5M VHDCI to 68 Pin HD Cable		812	
5.0M VHDCI to 68 Pin HD Cable		813	



Description	Product #	Opt #	Price
10.0M VHDCI to 68 Pin HD Cable		814	
2M V CBL VHDCI – VHDCI – 68 Pin HD		841	
2M V CBL VHDCI – VHDCI I / L Term – 68 Pin HD		842	
2M V CBL 68 Pin HD – VHDCI – 68 Pin HD		843	
2M V CBL 68 Pin HD – VHDCI I / L Term – 68 Pin HD		844	
4M V CBL VHDCI – VHDCI – 68 Pin HD		B25	
4M V CBL VHDCI – VHDCI I / L Term – 68 Pin HD		B26	
4M V CBL 68 Pin HD – VHDCI – 68 Pin HD		B27	
4M V CBL 68 Pin HD – VHDCI I / L Term – 68 Pin HD		B28	
2.0 m V cable - 68-pin high-density male		840	
10.0 m 68-pin high-density male to 68-pin high-density male in-line terminator cable for V-Class		851	
2/5 m V in-line terminator cable - 68-pin high-density male for V-Class		871	
2/3 m V in-line terminator cable - 68-pin high-density male for V-Class		873	
5.0 m 68-pin high-density male to 68-pin high-density male in-line terminator cable for V-Class		875	
• SCSI Cable 0.5m VHDS68/HDS68 HVD ILT M/F	C7519A		
<b>Configuration Tools</b>			
NT Support Kit (This software is required for the array to work with NT systems.)		ASJ	
MPE Tracking (This option should be ordered with all arrays that will be connected to MPE systems. This is a configuration tracking solution only.)		003	
<b>Supporting Software (CD-ROMs)</b>			
• Supporting Software (This software is required for the array to work with HP-UX. The customer is not required to order more than one per installation site. If the array is ordered as part of an integrated system order, B6191AA need not be ordered because the necessary supporting software is automatically included with the HP-UX order.)	B6191AA		
• <b>Rackmount HP Surestore Disk Array 12H (with AutoRAID technology)</b>	A3700A		
<i>Standard Array Includes:</i>			
Rackmount Array Enclosure			
Two Empty Controller slots			
Two Power Supplies (third power supply option available)			
Three Fan Modules			
Twelve Empty Half-Height Disk Slots			
0.5 m Ultra-Flexible SCSI cable			
Fast Wide Differential SCSI Terminator			
Owners Guide and general usage document			
<b>High Availability Options</b>			
Third Power Supply Option		002	
<b>Storage Capacity Options (Minimum of 4 drives required)</b>			
4x18.2 GB 10K rpm Disk drive modules		184	
5x18.2 GB 10K rpm Disk drive modules		185	
8x18.2 GB 10K rpm Disk drive modules		188	
12x18.2 GB 10K rpm Disk drive modules		192	
4x36.4 GB 10K rpm Disk drive modules		314	
5x36.4 GB 10K rpm Disk drive modules		315	
8x36.4 GB 10K rpm Disk drive modules		318	
12x36.4 GB 10K Disk drive modules		322	
<b>Controllers (Must select Option 200 or Option 203)</b>			
One 96 MB HP Disk Array Controller with AutoRAID		200	
Two 96 MB HP Disk Array Controllers with AutoRAID		203	
<b>Cable Options</b>			

Description	Product #	Opt #	Price
0.9 m 68-pin high-density male to 68-pin high-density male cable		801	
2.5 m 68-pin high-density male to 68-pin high-density male cable		802	
5.0 m 68-pin high-density male to 68-pin high-density male cable		803	
10.0 m 68-pin high-density male to 68-pin high-density male cable		804	
CA – 1M 68 Pin LP to 68 Pin HD LP		806	
CA – 2.5M 68 Pin LP to 68 Pin HD LP		807	
CA – 5.0M 68 Pin LP to 68 Pin HD LP		808	
CA – 10M 68 Pin LP to 68 Pin HD LP		809	
1.0M VHDCI to 68 Pin HD Cable		811	
2.5M VHDCI to 68 Pin HD Cable		812	
5.0M VHDCI to 68 Pin HD Cable		813	
10.0M VHDCI to 68 Pin HD Cable		814	
2M V CBL VHDCI – VHDCI – 68 Pin HD		841	
2M V CBL VHDCI – VHDCI I / L Term – 68 Pin HD		842	
2M V CBL 68 Pin HD – VHDCI – 68 Pin HD		843	
2M V CBL 68 Pin HD – VHDCI I / L Term – 68 Pin HD		844	
4M V CBL VHDCI – VHDCI – 68 Pin HD		B25	
4M V CBL VHDCI – VHDCI I / L Term – 68 Pin HD		B26	
4M V CBL 68 Pin HD – VHDCI – 68 Pin HD		B27	
4M V CBL 68 Pin HD – VHDCI I / L Term – 68 Pin HD		B28	
2.0 m V cable – 68-pin high-density male		840	
10.0 m 68-pin high-density male to 68-pin high-density male in-line terminator cable for V-Class		851	
2/5 m V in-line terminator cable – 68-pin high-density male for V-Class		871	
2/3 m V in-line terminator cable – 68-pin high-density male for V-Class		873	
5.0 m 68-pin high-density male to 68-pin high-density male in-line terminator cable for V-Class		875	
• SCSI Cable 0.5m VHDS68/HDS68 HVD ILT M/F	C7519A		
<b>Configuration Tools</b>			
NT Support Kit (This software is required for the array to work with NT systems.)		ASJ	
MPE Tracking (This option should be ordered with all arrays that will be connected to MPE systems. This is a configuration tracking solution only.)		003	
<b>Supporting Software (CD-ROMs)</b>			
Supporting Software (This software is required for the array to work with HP-UX. The customer is not required to order more than one per installation site. If the array is ordered as part of an integrated system order, B6191AA need not be ordered because the necessary supporting software is automatically included with the HP-UX order.)	B6191AA		
• <b>Factory-Racked HP Surestore Disk Array 12H (with AutoRAID technology)</b>	A3700AZ		
<i>Standard Array Includes:</i>			
Factory Racked Enclosure			
Two Empty Controller slots			
Two Power Supplies (third power supply option available)			
Three Fan Modules			
Twelve Empty Half-Height Disk Slots			
0.5 m Ultra-Flexible SCSI cable			
Fast Wide Differential SCSI Terminator			
Owners Guide and general usage document			
<b>High Availability Options</b>			
Third Power Supply Option		002	
<b>Storage Capacity Options (Minimum of 4 drives required)</b>			
4x18.2 GB 10K rpm Disk drive modules		184	
5x18.2 GB 10K rpm Disk drive modules		185	





Description	Product #	Opt #	Price
8x18.2 GB 10K rpm Disk drive modules		188	
12x18.2 GB 10K rpm Disk drive modules		192	
4x36.4 GB 10K rpm Disk drive modules (Replaces Opt 304)		314	
5x36.4 GB 10K rpm Disk drive modules (Replaces Opt 305)		315	
8x36.4 GB 10K rpm Disk drive modules (Replaces Opt 308)		318	
12x36.4 GB 10K Disk drive modules (Replaces Opt 312)		322	
<b>Controllers (Must select Option 200 or Option 203)</b>			
One 96 MB HP Disk Array Controller with AutoRAID		200	
Two 96 MB HP Disk Array Controllers with AutoRAID		203	
<b>Cable Options</b>			
0.9 m 68-pin high-density male to 68-pin high-density male cable		801	
2.5 m 68-pin high-density male to 68-pin high-density male cable		802	
5.0 m 68-pin high-density male to 68-pin high-density male cable		803	
10.0 m 68-pin high-density male to 68-pin high-density male cable		804	
CA – 1M 68 Pin LP to 68 Pin HD LP		806	
CA – 2.5M 68 Pin LP to 68 Pin HD LP		807	
CA – 5.0M 68 Pin LP to 68 Pin HD LP		808	
CA – 10M 68 Pin LP to 68 Pin HD LP		809	
1.0M VHDCI to 68 Pin HD Cable		811	
2.5M VHDCI to 68 Pin HD Cable		812	
5.0M VHDCI to 68 Pin HD Cable		813	
10.0M VHDCI to 68 Pin HD Cable		814	
2M V CBL VHDCI – VHDCI – 68 Pin HD		841	
2M V CBL VHDCI – VHDCI I / L Term – 68 Pin HD		842	
2M V CBL 68 Pin HD – VHDCI – 68 Pin HD		843	
2M V CBL 68 Pin HD – VHDCI I / L Term – 68 Pin HD		844	
4M V CBL VHDCI – VHDCI – 68 Pin HD		B25	
4M V CBL VHDCI – VHDCI I / L Term – 68 Pin HD		B26	
4M V CBL 68 Pin HD – VHDCI – 68 Pin HD		B27	
4M V CBL 68 Pin HD – VHDCI I / L Term – 68 Pin HD		B28	
2.0 m V cable - 68-pin high-density male		840	
10.0 m 68-pin high-density male to 68-pin high-density male in-line terminator cable for V-Class		851	
2/5 m V in-line terminator cable - 68-pin high-density male for V-Class		871	
2/3 m V in-line terminator cable - 68-pin high-density male for V-Class		873	
5.0 m 68-pin high-density male to 68-pin high-density male in-line terminator cable for V-Class		875	
• SCSI Cable 0.5m VHDS68/HDS68 HVD ILT M/F	C7519A		
<b>Configuration Tools</b>			
NT Support Kit (This software is required for the array to work with NT systems.)		ASJ	
MPE Tracking (This option should be ordered with all arrays that will be connected to MPE systems. This is a configuration tracking solution only.)		003	
<b>Supporting Software (CD-ROMs)</b>			
• Supporting Software (This software is required for the array to work with HP-UX. The customer is not required to order more than one per installation site. If the array is ordered as part of an integrated system order, B6191AA need not be ordered because the necessary supporting software is automatically included with the HP-UX order.)	B6191AA		
<b>Add-On/Upgrade Products</b>			
• 18.2 GB disk drive module 10K RPM S/E (54 mm disk module) (Must have all 3 fan modules A3709B)*	A3714A		
• 36.4 GB disk drive module 10K RPM S/E (54 mm disk module) (Must have all 3 fan modules A3709B)*	A5292A		

Description	Product #	Opt #	Price
• Power supply option (one power supply with no cable)	A3708A		
Power cable option for racked configurations		004	
Power cable option for wall outlets (localized according to country of origin of the order)		006	
• 12H Power Upgrade Kit (For use of upgrade kit in FC storage solutions, refer to the HP 9000 Enterprise Servers Configuration Guide. Choose Option OD1 for basic factory integration into rack)	A4915A		
U.S. – English Localization		ABA	
Europe (HPSA) – English Localization		ABB	
200 – 240 V UPS 4.5 m Power Cable		024	
• Fan Module	A3709B		
• 96 MB HP Disk Array Controller with AutoRAID	A3706A		
• Fast Wide Differential SCSI Terminator	C2905A		
• 0.5 m Ultra-Flexible SCSI Cable	C2981A		
• SCSI Cable 0.5m VHDS68/HDTS68 HVD ILT M/F	C7519A		
• 5.0 m 68-pin high-density male to 68-pin high-density male cable	A5167A		
• Empty deskside cabinet (allows conversion of rackmounted unit to deskside unit)	A3701A		
• Enterprise Storage Integration Product (for full factory integration of storage configurations) Described in the Design Guide ( <a href="http://eps.rose.hp.com">http://eps.rose.hp.com</a> ) (Site not available to channel partners)	A5147A		
• CD-ROM FW upgrade kit (for single controller solutions)	A5284B		
• PCI Differential UW SCSI HBA for NT	A5252A		
• Software Integration Kit for NT	A5253C		
• Front Door for 12H – Quartz Grey (For Parchment White door replacement)	A5329A		

\* A3700A, A3700AD & A3700AZ enclosures ordered before 02 April 98, need to be upgraded with all 3 fan modules A3709B. Upgraded module is identified by a bubble label. Previous label was flat.

### 4.9.2—HP Surestore Virtual Array 7100 US List

Description	Product #	Opt #	Price
<b>VA 7100 Field Rackable, Dual Controllers</b>			
• Surestore Virtual Array 7100, Field Rackable Requires HP-UX 11.0, Microsoft Windows NT 4.0, Microsoft Windows 2000, or Red Hat Linux 6.2 Standard Array Includes: – Rack mount enclosure with two virtual array processors, 2 GBICS, & user manuals – Two power supplies – Two fan modules – Two power cords – Mounting rails for HP cabinets	A6206A		
<b>Cache Options (must choose one)</b>			
256MB Cache 2 x 256MB DIMM		002	
512MB Cache 2 x 512MB DIMM		003	
1024MB Cache 4 x 512MB DIMM		004	
<b>Drive Options (Min 4, Max 15 in any configuration)</b>			
Enterprise Class 18GB 15K RPM FC HDD		302	
Enterprise Class 36GB 10K RPM FC HDD		303	
<b>VA 7100 Factory Racked, Dual Controllers</b>			
• Surestore Virtual Array 7100, Factory Racked Requires HP-UX 11.0, Microsoft Windows NT 4.0, Microsoft Windows 2000, or Red Hat Linux 6.2 Standard Array Includes: – Factory Racked enclosure with two virtual array processors, 2 GBICS & user manuals – Two power supplies – Two fan modules – Two power cords	A6206AZ		



Description	Product #	Opt #	Price
– Mounting rails for HP cabinets			
<b>Cache Options (must choose one)</b>			
256MB Cache 2 x 256MB DIMM		002	
512MB Cache 2 x 512MB DIMM		003	
1024MB Cache 4 x 512MB DIMM		004	
<b>Drive Options (Min 4, Max 15 in any configuration)</b>			
Enterprise Class 18GB 15K RPM FC HDD		302	
Enterprise Class 36GB 10K RPM FC HDD		303	
<b>VA 7100 Deskside, Dual Controllers</b>			
<ul style="list-style-type: none"> <li>• Surestore Virtual Array 7100, Deskside Requires HP-UX 11.0, Microsoft Windows NT 4.0, Microsoft Windows 2000, or Red Hat Linux 6.2 Standard Array Includes: <ul style="list-style-type: none"> <li>– Deskside enclosure with two virtual array processors, 2 GBICS &amp; user manuals</li> <li>– Two power supplies</li> <li>– Two fan modules</li> <li>– Two power cords</li> <li>– Mounting rails for HP cabinets</li> </ul> </li> </ul>	A6206AD		
<b>Cache Options (must choose one)</b>			
256MB Cache 2 x 256MB DIMM		002	
512MB Cache 2 x 512MB DIMM		003	
1024MB Cache 4 x 512MB DIMM		004	
<b>Drive Options (Min 4, Max 15 in any configuration)</b>			
Enterprise Class 18GB 15K RPM FC HDD		302	
Enterprise Class 36GB 10K RPM FC HDD		303	
<b>VA 7100 Field Rackable, Single Controller</b>			
<ul style="list-style-type: none"> <li>• Surestore Virtual Array 7100, Field Rackable Requires HP-UX 11.0, Microsoft Windows NT 4.0, Microsoft Windows 2000, or Red Hat Linux 6.2 Standard Array Includes: <ul style="list-style-type: none"> <li>– Field Rackable enclosure with one virtual array processor, one GBIC &amp; user manuals</li> <li>– Two power supplies</li> <li>– Two fan modules</li> <li>– Two power cords</li> <li>– Mounting rails for HP cabinets</li> </ul> </li> </ul>	A6207A		
<b>Cache Options (must choose one)</b>			
256MB Cache 1 x 256MB DIMM		002	
512MB Cache 1 x 512MB DIMM		003	
1024MB Cache 2 x 512MB DIMM		004	
<b>Drive Options (Min 4, Max 15 in any configuration)</b>			
Enterprise Class 18GB 15K RPM FC HDD		302	
Enterprise Class 36GB 10K RPM FC HDD		303	
<b>VA 7100 Factory Racked, Single Controller</b>			
<ul style="list-style-type: none"> <li>• Surestore Virtual Array 7100, Factory Installed Requires HP-UX 11.0, Microsoft Windows NT 4.0, Microsoft Windows 2000, or Red Hat Linux 6.2 Standard Array Includes: <ul style="list-style-type: none"> <li>– Factory racked enclosure with one virtual array processor, one GBIC &amp; user manuals</li> <li>– Two power supplies</li> <li>– Two fan modules</li> <li>– Two power cords</li> <li>– Mounting rails for HP cabinets</li> </ul> </li> </ul>	A6206AZ		
<b>Cache Options (must choose one)</b>			
256MB Cache 2 x 256MB DIMM		002	
512MB Cache 2 x 512MB DIMM		003	
1024MB Cache 4 x 512MB DIMM		004	
<b>Drive Options (Min 4, Max 15 in any configuration)</b>			
Enterprise Class 18GB 15K RPM FC HDD		302	

Description	Product #	Opt #	Price
<b>Enterprise Class 36GB 10K RPM FC HDD</b>		303	
<b>VA 7100 Deskside, Single Controller</b>			
<ul style="list-style-type: none"> <li>Surestore Virtual Array 7100, Deskside</li> </ul> Requires HP-UX 11.0, Microsoft Windows NT 4.0, Microsoft Windows 2000, or Red Hat Linux 6.2	A6206AD		
<b>Standard Array Includes:</b> – Deskside enclosure with one virtual array processor, one GBIC & user manuals – Two power supplies – Two fan modules – Two power cords – Mounting rails for HP cabinets			
<b>Cache Options (must choose one)</b>			
256MB Cache 2 x 256MB DIMM		002	
512MB Cache 2 x 512MB DIMM		003	
1024MB Cache 4 x 512MB DIMM		004	
<b>Drive Options (Min 4, Max 15 in any configuration)</b>			
Enterprise Class 18GB 15K RPM FC HDD		302	
Enterprise Class 36GB 10K RPM FC HDD		303	
<b>Upgrade products</b>			
<ul style="list-style-type: none"> <li>Virtual Array Enclosure</li> <li>Virtual Array Processor – One minimum, two per enclosure max</li> <li>256MB Cache for Virtual Array Processor – one per Virtual Array Processor</li> <li>512MB Cache for Virtual Array Processor – one per Virtual Array Processor</li> <li>1024MB Cache for Virtual Array Processor – one per Virtual Array Processor</li> <li>Enterprise Class 18GB 15K RPM FC HDD – may mix capacity points</li> <li>Enterprise Class 36GB 10K RPM FC HDD – may mix capacity points</li> <li>SW GBIC for Surestore VA series – one per Virtual Array Processor</li> </ul>	A6183A A6188A A6185A A6186A A6187A A6191A A6192A A6203A		
<b>Cables &amp; Accessories</b>			
<ul style="list-style-type: none"> <li>Deskside Cab for Virtual Array Series</li> <li>2 meter FC fibre optic cable</li> <li>16 meter FC fibre optic cable</li> <li>50 meter FC fibre optic cable</li> <li>100 meter FC fibre optic cable</li> <li>VAP/LCC filler panel</li> <li>Disk Slot filler panel</li> </ul>	A6196A A3583A A3531A A3735A A3736A A6197A A6198A		

**4.9.3—HP Surestore Disk Array FC60**  
**US List**

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>Surestore Disk Array FC60, Field Rackable</li> </ul> Requires one to six A5294A Disk Systems to form an array. Requires HP-UX 10.20 or later. <b>Standard Array Includes:</b> – Rackmount enclosure with two empty controller slots – Two power supplies – Two fan modules – One battery backup unit (BBU) – Two power cords – Mounting rails for HP cabinets – Terminators for unused SCSI ports – ½ U Filler Panels – User manuals	A5277A		

Description	Product #	Opt #	Price						
<b>Controllers (Must select one option)</b>									
Single controller with 256 MB cache, HP-UX firmware, one Media Interface Adapter and one filler panel		203							
Dual controllers with 256 MB mirrored cache and two Media Interface Adapters, HP-UX firmware		204							
Dual controllers with 256 MB mirrored cache and two Media Interface Adapters, Windows firmware		205							
Dual controllers with 512 MB mirrored cache and two Media Interface Adapters, HP-UX firmware		304							
Dual controllers with 512 MB mirrored cache and two Media Interface Adapters, Windows firmware		305							
<b>Host Connect Cable Options</b>									
2 meter Fibre Channel Cable		0Z4							
16 meter Fibre Channel Cable		AFY							
50 meter Fibre Channel Cable		0Z5							
<b>Supporting Software for HP-UX (CD-ROMs)</b>									
• NT Support for the FC60, for converting HP-UX firmware to Windows	B6191AA								
• <b>8-Partition support for Windows</b>	A5628A								
• <b>8-Partition support for Windows</b>	A5649A								
Enter the following selection as a sub-item to the A5277A product above									
<b>Surestore Disk System SC10, Array Integrated, Field Rackable</b>									
<p>This product may only be ordered in conjunction with the A5277A. To order a SC10 without integration into an array, order A5272A. Array Integrated product includes:</p> <ul style="list-style-type: none"> <li>- Rackmount enclosure that accommodates 10 disk modules (1.6" or 1")</li> <li>- Two power supplies</li> <li>- Two fan modules</li> <li>- Two power cords</li> <li>- Two bus controller card modules (with enclosure monitoring)</li> <li>- Mounting rails for HP cabinets</li> <li>- User manuals</li> <li>- Two SCSI bus terminators</li> <li>- ½ U filler panel</li> <li>- One or two 2 meter VHDCI SCSI cables for connection to the A5277A. The number of cables included depends upon how many A5294As are connected to the A5277A.</li> </ul> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><u>Number of A5294A per A5277A</u></td> <td style="text-align: center;"><u>Number of SCSI cables per A5294A</u></td> </tr> <tr> <td style="text-align: center;">1, 2, or 3</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">4, 5, or 6</td> <td style="text-align: center;">1</td> </tr> </table>				<u>Number of A5294A per A5277A</u>	<u>Number of SCSI cables per A5294A</u>	1, 2, or 3	2	4, 5, or 6	1
<u>Number of A5294A per A5277A</u>	<u>Number of SCSI cables per A5294A</u>								
1, 2, or 3	2								
4, 5, or 6	1								
<b>Storage Capacity Options</b>									
Note: All disk systems ordered with a single A5277A must have identical Storage Capacity Options.									
Qty 4 9GB 10K RPM disk drive modules		104							
Qty 8 9GB 10K RPM disk drive modules		108							
Qty 10 9GB 10K RPM disk drive modules		110							
Qty 4 18GB 10K RPM disk drive modules		204							
Qty 8 18GB 10K RPM disk drive modules		208							
Qty 10 18GB 10K RPM disk drive modules		210							
Qty 4 36GB 10K RPM disk drive modules		304							
Qty 8 36GB 10K RPM disk drive modules		308							
Qty 10 36GB 10K RPM disk drive modules		310							
Qty 4 73GB 10K RPM disk drive modules		404							
Qty 8 73GB 10K RPM disk drive modules		408							
Qty 10 73GB 10K RPM disk drive modules		410							
Qty four 18.2GB 15K RPM Ultra2 SCSI Disk Drive		504							
Qty eight 18.2GB 15K RPM Ultra2 SCSI Disk Drive		508							
Qty ten 18.2GB 15K RPM Ultra2 SCSI Disk Drive		510							



Description	Product #	Opt #	Price
<b>Custom cable options (use only if customer requires a non-standard configuration)</b>			
Delete a 2m cable included in A5294A and add a 5m VHDCI SCSI cable for Connection to A5277A (suitable for connection of A5277A to A5294A in a different rack)		701	
• <b>Surestore Disk Array FC60, Factory Racked</b>	A5277AZ		
Requires one to six A5294AZ Disk Systems to form an array. Requires HP-UX 10.20 or later. <i>Standard Array Includes:</i> – Rackmount enclosure with two empty controller slots – Two power supplies – Two fan modules – One battery backup unit (BBU) – Two power cords – Mounting rails for HP cabinets – Terminators for unused SCSI ports – User manuals – Factory integrated into specified rack			
<b>Controllers (Must select one option)</b>			
Single controller with 256 MB cache, HP-UX firmware, one Media Interface Adapter and one filler panel		203	
Dual controllers with 256 MB mirrored cache and two Media Interface Adapters		204	
Dual controllers with 256 MB mirrored cache and two Media Interface Adapters, Windows firmware		205	
Dual controllers with 512 MB mirrored cache and two Media Interface Adapters, HP-UX firmware		304	
Dual controllers with 512 MB mirrored cache and two Media Interface Adapters, Windows firmware		305	
<b>Host Connect Cable Options</b>			
2 meter Fibre Channel Cable		OZ4	
16 meter Fibre Channel Cable		AFY	
50 meter Fibre Channel Cable		OZ5	
<b>Operating System Support Option (Must select one option)</b>			
Support for HP-UX 11.0 Enter the following selection as a sub-item to the A5277AZ product above		UM4	
• <b>[Brand name] Disk System SC10, Array Integrated, Factory Racked</b>	A5294AZ		
This product may only be ordered in conjunction with the A5277AZ. To order a SC10 without Integration into an array, order A5272AZ. Array Integrated product includes: – Rackmount enclosure that accommodates 10 disk modules (1.6" or 1") – Two power supplies – Two fan modules – Two power cords – Two bus controller card modules (with enclosure monitoring) – Mounting rails for HP cabinets – User manuals – Two SCSI bus terminators – ½ U filler panel (as required for proper rack appearance) – One or two 2 meter VHDCI SCSI cables for connection to the A5277AZ. The number of cables Included depends upon how many A5294AZs are connected to the A5277AZ.			
<u>Number of A5294AZ per A5277AZ</u>	<u>Number of SCSI cables per A5294AZ</u>		
1, 2, or 3	2		
4, 5, or 6	1		
– Disks will be bound to the A5277AZ array			
<b>Storage Capacity Options</b>			
Note: All disk systems ordered with a single A5277AZ must have identical Storage Capacity			



Description	Product #	Opt #	Price
Options.			
Qty 4 9GB 10K RPM disk drive modules		104	
Qty 8 9GB 10K RPM disk drive modules		108	
Qty 10 9GB 10K RPM disk drive modules		110	
Qty 4 18GB 10K RPM disk drive modules		204	
Qty 8 18GB 10K RPM disk drive modules		208	
Qty 10 18GB 10K RPM disk drive modules		210	
Qty 4 36GB 10K RPM disk drive modules		304	
Qty 8 36GB 10K RPM disk drive modules		308	
Qty 10 36GB 10K RPM disk drive modules		310	
Qty 4 73GB 10K RPM disk drive modules		404	
Qty 8 73GB 10K RPM disk drive modules		408	
Qty 10 73GB 10K RPM disk drive modules		410	
Qty four 18.2GB 15K RPM Ultra2 SCSI Disk Drive		504	
Qty eight 18.2GB 15K RPM Ultra2 SCSI Disk Drive		508	
Qty ten 18.2GB 15K RPM Ultra2 SCSI Disk Drive		510	
<b>Supporting Software for HP-UX (CD-ROMs)</b>	B6191AA		
<b>NT Support for the FC60</b>	A5628A		
<b>Add-On/Upgrade Products</b>			
Cache Memory upgrade, 2 X 256 MB DIMMs	A5279A		
Add on 9.2 GB disk drive module, 10000 RPM Ultra2 LVD	A5276A		
Add on 18.2 GB disk drive module, 10000 RPM Ultra2 LVD	A5282A		
Add on 36GB disk drive module 10K RPM Ultra2 LVD	A5595A		
Add on 73GB disk drive module 10K RPM Ultra2 LVD	A5622A		
Add on 18.2 GB disk drive module, 15,000 RPM Ultra2 LVD	A5633A		
Add on controller (no cache)	A5278A		
Controller Cache Option (Required)			
256 MB cache		002	
2 m, VHDCI to VHDCI SCSI cable, M/M	A5306A		
5 m, VHDCI to VHDCI SCSI cable, M/M	A5307A		
10 m, VHDCI to VHDCI SCSI cable, M/M	A5308A		
Rack Rail Accessory Kit (for legacy cabinets only: C2785A, C2786A, C2787A, A1896A, A1897A)	A5250A		
HP Rack System/E Rack Rail Accessory Kit (for cabinets: A4900A, A4801A, A4902A, J1502A, J1501A, J1500A)	A5251A		
2 meter Fibre Channel Cable	A3583A		
16 meter Fibre Channel Cable	A3531A		
50 meter Fibre Channel Cable	A3735A		
100 meter Fibre Channel Cable	A3736A		
SCSI Terminator, VHDCI LVD/SE	A5296A		

## HP Surestore Disk Array XP48 Ordering Process

### Overview

Once the configuration choices have been made and saved in WATSON or Sales Builder for Windows (SBW), the configuration may be converted to a quote and imported into the order entry system. If configuration tools such as WATSON or SBW are not available, then it is important to follow an ascending numeric order for each Item / Sub-Item ordered in sequence. See Appendix for step by step Manual Procedures for configuring the XP48.

### Structured Solution Programs (SSPs):

The HP Structured Solution Program (SSP) has been designed to make the ordering process simple, flexible, and easy to understand. It is completely menu driven requiring only a few simple choices for the various components in the system. Minimum/maximum numbers have been inserted into the menu wherever possible to simplify your choices and to guide your configuration decisions.

### XP48 HW Ordering Information Using SSP

- 1) Upgrade products are bundled with the solution, NOT integrated.
- 2) Upgrades cannot be on the same order section with an SSP system order.
- 3) Cables and software can be on the same order section as the upgrades.

### 4.9.4—XP48 Surestore Disk Array Hardware

	Description		Product #	Opt. #	
	<b>XP48 HW SSP</b>				
1.0	<b>HP Surestore Disk Array XP48 SSP Solution</b>	[ ]	A5920A		
2.0	<b>Surestore Disk Array XP48 Disk Control Frame (1 required). Single phase power only. Must select one power frequency option</b>				
	<b>XP48 Disk Control Frame</b> with 1 ACP pair, Redundant Power Supplies for CHIP prs 1-3, HP Firmware and Continuous Track XP with Modem and pcAnywhere	[ ]	A5921A		
	<b>XP48 Disk Control Frame</b>				
	2 GB Cache Memory				
	512 MB Shared Memory				
	<b>60 Hz Single Phase Power Option</b>	[ ]	A5921A	001	
	<b>50 Hz Single Phase Power Option</b>	[ ]	A5921A	002	
2.1	<b>Client-Host Interface Processor pairs (Min 1 pr Max 3 pr)</b>				
	4 Port ExSA Channel Adapter Pair	[ ]	A5923A		
	8 Port ExSA Channel Adapter Pair	[ ]	A5924A		
	4 Port Fiber Channel Adapter Pair for Short Wave	[ ]	A5925A		
	8 Port Fiber Channel Adapter Pair for Short Wave	[ ]	A5926A		
	8 Port Fiber Channel for Continuous Access Adapter Pair for Short Wave	[ ]	A5927A		
2.2	<b>Additional Nonvolatile Cache (Min 0, Max 16 GB including 2 GB cache in base DKC configuration)</b>				
	2 GB Cache Memory	[ ]	A5932A		
2.3	<b>Additional Shared Memory (Min 0, Max 1024 MB including 512 MB Shared Memory in base DKC configuration)</b>				
	256 MB Shared Memory Module	[ ]	A5933A		
2.4	<b>Disk Array Groups (min 1 max 11)</b>				
	18 GB 10k rpm, FC Disk Array Group - 4 drives per group	[ ]	A5936A		
	18 GB 15k rpm, FC Disk Array Group - 4 drives per group (Obsoletes 18GB-10k after inventory roll)	[ ]	A5940A		
	73 GB 10k rpm, FC Disk Array Group - 4 drives per group	[ ]	A5938A		
2.5	<b>Spare Disk Drives (Min 1 per array group size, Max 4 total)</b>				
	18 GB 10k rpm, FC Spare Disk Drive	[ ]	A5936S		
	18 GB 15k rpm, FC Spare Disk Drive (Obsoletes 18GB-10k after inventory roll)	[ ]	A5440S		
	73 GB 10K rpm, FC Spare Disk Drive	[ ]	A5938S		



### 4.9.5—XP48 Upgrade Products

Description		Product #	Opt. #	
• 4 Port ExSA Channel Adapter Pair	[ ]	A5923U		
• 8 Port ExSA Channel Adapter Pair	[ ]	A5924U		
• 4 Port Fiber Channel Adapter Pair for Short Wave	[ ]	A5925U		
• 8 Port Fiber Channel Adapter Pair for Short Wave	[ ]	A5926U		
• 8 Port Fiber Channel for Continuous Access Adapter Pair for Short Wave	[ ]	A5927U		
• 2 GB Cache Memory Module	[ ]	A5932U		
• 256 MB Shared Memory Module	[ ]	A5933U		
• 18 GB 10k rpm, FC Disk Array Group - 4 drives per group	[ ]	A5936U		
• 18 GB 15k rpm, FC Disk Array Group - 4 drives per group (Obsoletes 18GB-10k after inventory roll)	[ ]	A5940U		
• 73 GB 10k rpm, FC Disk Array Group - 4 drives per group	[ ]	A5938U		
• 18 GB 10k rpm, FC Spare Disk Drive	[ ]	A5936SU		
• 18 GB 15k rpm, FC Spare Disk Drive (Obsoletes 18GB-10k after inventory roll)	[ ]	A5940SU		
• 73 GB 10K rpm, FC Spare Disk Drive	[ ]	A5938SU		
<b>Host Interface Cables (Same as XP512)</b>				
<b>Fibre Channel Cables</b>				
• 16 meter Fibre Channel Cable, 50 micron, multimode	[ ]	A5750A	001	
• 50 meter Fibre Channel Cable, 50 micron, multimode	[ ]		002	
• 100 meter Fibre Channel Cable, 50 micron, multimode	[ ]		003	
<b>Fibre Optic Cables (ESCON)</b>				
• Fiber Optic Cable - 7m	[ ]	A5752A	001	
• Fiber Optic Cable - 13m	[ ]		002	
• Fiber Optic Cable - 22m	[ ]		003	
• Fiber Optic Cable - 31m	[ ]		004	
• Fiber Optic Cable - 46m	[ ]		005	
• Fiber Optic Cable - 61m	[ ]		006	
• Fiber Optic Cable - 92m	[ ]		007	
• Fiber Optic Cable - 122m	[ ]		008	

### 4.9.6—HP Surestore Disk Array FC60 US List

Description		Product #	Opt #	Price
• Surestore Disk Array FC60, Field Rackable Requires one to six A5294A Disk Systems to form an array. Requires HP-UX 10.20 or later. <i>Standard Array Includes:</i> – Rackmount enclosure with two empty controller slots – Two power supplies – Two fan modules – One battery backup unit (BBU) – Two power cords – Mounting rails for HP cabinets – Terminators for unused SCSI ports – ½ U Filler Panels – User manuals		A5277A		
<b>Controllers (Must select one option)</b>				
• Single controller with 256 MB cache, HP-UX firmware, one Media Interface Adapter and one filler panel			203	
• Dual controllers with 256 MB mirrored cache and two Media Interface Adapters, HP-UX firmware			204	
• Dual controllers with 256 MB mirrored cache and two Media Interface Adapters, Windows firmware			205	



Description	Product #	Opt #	Price						
Dual controllers with 512 MB mirrored cache and two Media Interface Adapters, HP-UX firmware		304							
Dual controllers with 512 MB mirrored cache and two Media Interface Adapters, Windows firmware		305							
<b>Host Connect Cable Options</b>									
2 meter Fibre Channel Cable		0Z4							
16 meter Fibre Channel Cable		AFY							
50 meter Fibre Channel Cable		0Z5							
<b>Supporting Software for HP-UX (CD-ROMs)</b>									
• NT Support for the FC60, for converting HP-UX firmware to Windows	B6191AA								
• 8-Partition support for Windows	A5628A								
• 8-Partition support for Windows	A5649A								
Enter the following selection as a sub-item to the A5277A product above									
<b>Surestore Disk System SC10, Array Integrated, Field Rackable</b>									
A5294A									
This product may only be ordered in conjunction with the A5277A. To order a SC10 without integration into an array, order A5272A. Array Integrated product includes:									
– Rackmount enclosure that accommodates 10 disk modules (1.6" or 1")									
– Two power supplies									
– Two fan modules									
– Two power cords									
– Two bus controller card modules (with enclosure monitoring)									
– Mounting rails for HP cabinets									
– User manuals									
– Two SCSI bus terminators									
– ½ U filler panel									
– One or two 2 meter VHDCI SCSI cables for connection to the A5277A. The number of cables included depends upon how many A5294As are connected to the A5277A.									
<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>Number of A5294A per A5277A</u></td> <td style="text-align: center;"><u>Number of SCSI cables per A5294A</u></td> </tr> <tr> <td style="text-align: center;">1, 2, or 3</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">4, 5, or 6</td> <td style="text-align: center;">1</td> </tr> </table>				<u>Number of A5294A per A5277A</u>	<u>Number of SCSI cables per A5294A</u>	1, 2, or 3	2	4, 5, or 6	1
<u>Number of A5294A per A5277A</u>	<u>Number of SCSI cables per A5294A</u>								
1, 2, or 3	2								
4, 5, or 6	1								
<b>Storage Capacity Options</b>									
Note: All disk systems ordered with a single A5277A must have identical Storage Capacity Options.									
Qty 4 18GB 10K RPM disk drive modules		204							
Qty 8 18GB 10K RPM disk drive modules		208							
Qty 10 18GB 10K RPM disk drive modules		210							
Qty 4 36GB 10K RPM disk drive modules		304							
Qty 8 36GB 10K RPM disk drive modules		308							
Qty 10 36GB 10K RPM disk drive modules		310							
Qty 4 73GB 10K RPM disk drive modules		404							
Qty 8 73GB 10K RPM disk drive modules		408							
Qty 10 73GB 10K RPM disk drive modules		410							
73GB 10K RPM disk drive modules ( Note: Need to order quantity of 1 to 10 per enclosure)		350							
Qty four 18.2GB 15K RPM Ultra2 SCSI Disk Drive		504							
Qty eight 18.2GB 15K RPM Ultra2 SCSI Disk Drive		508							
Qty ten 18.2GB 15K RPM Ultra2 SCSI Disk Drive		510							
<b>Custom cable options (use only if customer requires a non-standard configuration)</b>									
Delete a 2m cable included in A5294A and add a 5m VHDCI SCSI cable for Connection to A5277A (suitable for connection of A5277A to A5294A in a different rack)		701							
<b>Surestore Disk Array FC60, Factory Racked</b>									
A5277AZ									
Requires one to six A5294AZ Disk Systems to form an array. Requires HP-UX 10.20 or later.									
<i>Standard Array Includes:</i>									
– Rackmount enclosure with two empty controller slots									



Description	Product #	Opt #	Price						
<ul style="list-style-type: none"> <li>- Two power supplies</li> <li>- Two fan modules</li> <li>- One battery backup unit (BBU)</li> <li>- Two power cords</li> <li>- Mounting rails for HP cabinets</li> <li>- Terminators for unused SCSI ports</li> <li>- User manuals</li> <li>- Factory integrated into specified rack</li> </ul>									
<b>Controllers (Must select one option)</b>									
Single controller with 256 MB cache, HP-UX firmware, one Media Interface Adapter and one filler panel		203							
Dual controllers with 256 MB mirrored cache and two Media Interface Adapters		204							
Dual controllers with 256 MB mirrored cache and two Media Interface Adapters, Windows firmware		205							
Dual controllers with 512 MB mirrored cache and two Media Interface Adapters, HP-UX firmware		304							
Dual controllers with 512 MB mirrored cache and two Media Interface Adapters, Windows firmware		305							
<b>Host Connect Cable Options</b>									
2 meter Fibre Channel Cable		0Z4							
16 meter Fibre Channel Cable		AFY							
50 meter Fibre Channel Cable		0Z5							
<b>Operating System Support Option (Must select one option)</b>									
Support for HP-UX 11.0 Enter the following selection as a sub-item to the A5277AZ product above		UM4							
<ul style="list-style-type: none"> <li>• <b>[Brand name] Disk System SC10, Array Integrated, Factory Racked</b></li> </ul>	A5294AZ								
<p>This product may only be ordered in conjunction with the A5277AZ. To order a SC10 without integration into an array, order A5272AZ. Array Integrated product includes:</p> <ul style="list-style-type: none"> <li>- Rackmount enclosure that accommodates 10 disk modules (1.6" or 1")</li> <li>- Two power supplies</li> <li>- Two fan modules</li> <li>- Two power cords</li> <li>- Two bus controller card modules (with enclosure monitoring)</li> <li>- Mounting rails for HP cabinets</li> <li>- User manuals</li> <li>- Two SCSI bus terminators</li> <li>- ½ U filler panel (as required for proper rack appearance)</li> <li>- One or two 2 meter VHDCI SCSI cables for connection to the A5277AZ. The number of cables included depends upon how many A5294AZs are connected to the A5277AZ.</li> </ul> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><u>Number of A5294AZ per A5277AZ</u></td> <td style="text-align: center;"><u>Number of SCSI cables per A5294AZ</u></td> </tr> <tr> <td style="text-align: center;">1, 2, or 3</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">4, 5, or 6</td> <td style="text-align: center;">1</td> </tr> </table> <ul style="list-style-type: none"> <li>- Disks will be bound to the A5277AZ array</li> </ul>	<u>Number of A5294AZ per A5277AZ</u>	<u>Number of SCSI cables per A5294AZ</u>	1, 2, or 3	2	4, 5, or 6	1			
<u>Number of A5294AZ per A5277AZ</u>	<u>Number of SCSI cables per A5294AZ</u>								
1, 2, or 3	2								
4, 5, or 6	1								
<b>Storage Capacity Options</b>									
Note: All disk systems ordered with a single A5277AZ must have identical Storage Capacity Options.									
Qty 4 18GB 10K RPM disk drive modules		204							
Qty 8 18GB 10K RPM disk drive modules		208							
Qty 10 18GB 10K RPM disk drive modules		210							
Qty 4 36GB 10K RPM disk drive modules		304							
Qty 8 36GB 10K RPM disk drive modules		308							
Qty 10 36GB 10K RPM disk drive modules		310							
Qty 4 73GB 10K RPM disk drive modules		404							

Description	Product #	Opt #	Price
Qty 8 73GB 10K RPM disk drive modules		408	
Qty 10 73GB 10K RPM disk drive modules		410	
73GB 10K RPM disk drive modules ( Note: Need to order quantity of 1 to 10 per enclosure)		350	
Qty four 18.2GB 15K RPM Ultra2 SCSI Disk Drive		504	
Qty eight 18.2GB 15K RPM Ultra2 SCSI Disk Drive		508	
Qty ten 18.2GB 15K RPM Ultra2 SCSI Disk Drive		510	
• <b>Supporting Software for HP-UX (CD-ROMs)</b>	B6191AA		
• <b>NT Support for the FC60</b>	A5628A		
<b>Add-On/Upgrade Products</b>			
• Cache Memory upgrade, 2 X 256 MB DIMMs	A5279A		
• Add on 18.2 GB disk drive module, 10000 RPM Ultra2 LVD	A5282A		
• Add on 36GB disk drive module 10K RPM Ultra2 LVD	A5595A		
• Add on 73GB disk drive module 10K RPM Ultra2 LVD	A5622A		
• Add on 73GB disk drive module 10K RPM Ultra3 LVD	A6276A		
• Add on 18.2 GB disk drive module, 15,000 RPM Ultra2 LVD	A5633A		
• Add on controller (no cache)	A5278A		
Controller Cache Option (Required)			
256 MB cache		002	
• 2 m, VHDCI to VHDCI SCSI cable, M/M	A5306A		
• 5 m, VHDCI to VHDCI SCSI cable, M/M	A5307A		
• 10 m, VHDCI to VHDCI SCSI cable, M/M	A5308A		
• Rack Rail Accessory Kit (for legacy cabinets only: C2785A, C2786A, C2787A, A1896A, A1897A)	A5250A		
• HP Rack System/E Rack Rail Accessory Kit (for cabinets: A4900A, A4801A, A4902A, J1502A, J1501A, J1500A)	A5251A		
• 2 meter Fibre Channel Cable	A3583A		
• 16 meter Fibre Channel Cable	A3531A		
• 50 meter Fibre Channel Cable	A3735A		
• 100 meter Fibre Channel Cable	A3736A		
• SCSI Terminator, VHDCI LVD/SE	A5296A		

## HP Surestore Disk Array XP48 Ordering Process

### Overview

Once the configuration choices have been made and saved in WATSON or Sales Builder for Windows (SBW), the configuration may be converted to a quote and imported into the order entry system. If configuration tools such as WATSON or SBW are not available, then it is important to follow an ascending numeric order for each Item / Sub-Item ordered in sequence. See Appendix for step by step Manual Procedures for configuring the XP48.

### Structured Solution Programs (SSPs):

The HP Structured Solution Program (SSP) has been designed to make the ordering process simple, flexible, and easy to understand. It is completely menu driven requiring only a few simple choices for the various components in the system. Minimum/maximum numbers have been inserted into the menu wherever possible to simplify your choices and to guide your configuration decisions.

### XP48 HW Ordering Information Using SSP

- 1) Upgrade products are bundled with the solution, NOT integrated.
- 2) Upgrades cannot be on the same order section with an SSP system order.
- 3) Cables and software can be on the same order section as the upgrades.

### 4.9.7—XP48 Surestore Disk Array Hardware

	Description		Product #	Opt. #	
<b>XP48 HW SSP</b>					
1.0	<b>HP Surestore Disk Array XP48 SSP Solution</b>	[ ]	A5920A		
2.0	<b>Surestore Disk Array XP48 Disk Control Frame (1 required). Single phase power only. Must select one power frequency option</b>				
	<b>XP48 Disk Control Frame</b> with 1 ACP pair, Redundant Power Supplies for CHIP prs 1-3, HP Firmware and Continuous Track XP with Modem and pcAnywhere	[ ]	A5921A		
	<b>XP48 Disk Control Frame</b>				
	2 GB Cache Memory				
	512 MB Shared Memory				
	<b>60 Hz Single Phase Power Option</b>	[ ]	A5921A	001	
	<b>50 Hz Single Phase Power Option</b>	[ ]	A5921A	002	
2.1	<b>Client-Host Interface Processor pairs (Min 1 pr Max 3 pr)</b>				
	4 Port ExSA Channel Adapter Pair	[ ]	A5923A		
	8 Port ExSA Channel Adapter Pair	[ ]	A5924A		
	4 Port Fiber Channel Adapter Pair for Short Wave	[ ]	A5925A		
	8 Port Fiber Channel Adapter Pair for Short Wave (While quantities last)	[ ]	A5926A		
	8 Port Fiber Channel for Continuous Access Adapter Pair for Short Wave	[ ]	A5927A		
2.2	<b>Additional Nonvolatile Cache (Min 0, Max 16 GB including 2 GB cache in base DKC configuration)</b>				
	2 GB Cache Memory	[ ]	A5932A		
2.3	<b>Additional Shared Memory (Min 0, Max 1024 MB including 512 MB Shared Memory in base DKC configuration)</b>				
	256 MB Shared Memory Module	[ ]	A5933A		
2.4	<b>Disk Array Groups (min 1 max 11)</b>				
	18 GB 10k rpm, FC Disk Array Group - 4 drives per group (While quantities last)	[ ]	A5936A		
	18 GB 15k rpm, FC Disk Array Group - 4 drives per group (Obsoletes 18GB-10k after inventory roll)	[ ]	A5940A		
	• 47 GB 10K rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5937A		
	73 GB 10k rpm, FC Disk Array Group - 4 drives per group	[ ]	A5938A		
2.5	<b>Spare Disk Drives (Min 1 per array group size, Max 4 total)</b>				
	18 GB 10k rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5936S		
	18 GB 15k rpm, FC Spare Disk Drive (Obsoletes 18GB-10k after inventory roll)	[ ]	A5440S		
	• 47 GB 10K rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5937S		
	73 GB 10K rpm, FC Spare Disk Drive	[ ]	A5938S		

### 4.9.8—XP48 Upgrade Products

	Description		Product #	Opt. #	
	• 4 Port ExSA Channel Adapter Pair	[ ]	A5923U		
	• 8 Port ExSA Channel Adapter Pair	[ ]	A5924U		
	• 4 Port Fiber Channel Adapter Pair for Short Wave	[ ]	A5925U		
	• 8 Port Fiber Channel Adapter Pair for Short Wave (While quantities last)	[ ]	A5926U		
	• 8 Port Fiber Channel for Continuous Access Adapter Pair for Short Wave	[ ]	A5927U		
	• 2 GB Cache Memory Module	[ ]	A5932U		
	• 256 MB Shared Memory Module	[ ]	A5933U		
	• 18 GB 10k rpm, FC Disk Array Group - 4 drives per group (While quantities last)	[ ]	A5936U		
	• 18 GB 15k rpm, FC Disk Array Group - 4 drives per group (Obsoletes 18GB-10k after inventory roll)	[ ]	A5940U		
	• 47 GB 10K rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5937U		
	• 73 GB 10k rpm, FC Disk Array Group - 4 drives per group	[ ]	A5938U		
	• 18 GB 10k rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5936SU		
	• 18 GB 15k rpm, FC Spare Disk Drive (Obsoletes 18GB-10k after inventory roll)	[ ]	A5940SU		
	• 47 GB 10K rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5937SU		

Description		Product #	Opt. #
73 GB 10K rpm, FC Spare Disk Drive	[ ]	A5938SU	
<b>Host Interface Cables (Same as XP512)</b>			
<b>Fibre Channel Cables</b>			
• 16 meter Fibre Channel Cable, 50 micron, multimode	[ ]	A5750A	001
50 meter Fibre Channel Cable, 50 micron, multimode	[ ]		002
100 meter Fibre Channel Cable, 50 micron, multimode	[ ]		003
<b>Fibre Optic Cables (ESCON)</b>			
• Fiber Optic Cable - 7m	[ ]	A5752A	001
Fiber Optic Cable - 13m	[ ]		002
Fiber Optic Cable - 22m	[ ]		003
Fiber Optic Cable - 31m	[ ]		004
Fiber Optic Cable - 46m	[ ]		005
Fiber Optic Cable - 61m	[ ]		006
Fiber Optic Cable - 92m	[ ]		007
Fiber Optic Cable - 122m	[ ]		008

#### 4.9.9—XP48 Surestore Disk Array Software

Description		Product #	Opt#
<b>Software</b>			
All LTU products for initial purchase or upgrade			
<b>Data Mirroring/Security</b>			
<b>Continuous Access XP Media</b>			
• First Year of System Support Option (required)	[ x ]	B9320A	OS6
Software Enablement Option (required)	[ x ]		OSY
• Continuous Access XP Media For XP48 includes RAID Manager	[ ]	B9320A	003
• Continuous Access XP 1 TB LTU	[ ]	B9321A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP 5 TB LTU</b>	[ ]	B9322A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP 10 TB LTU</b>	[ ]	B9323A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP 25 TB LTU</b>	[ ]	B9324A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP Extension Media</b>	[ ]	B9325A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP Ext. Media For XP48</b>	[ ]	B9325A	003
• <b>Continuous Access XP Ext. 1 TB LTU</b>	[ ]	B9326A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP Ext. 5 TB LTU</b>	[ ]	B9327A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP Ext. 10 TB LTU</b>	[ ]	B9328A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP Ext. 25 TB LTU</b>	[ ]	B9329A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Business Copy XP Media</b>	[ ]	B9330A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Business Copy XP Media For XP48 includes RAID Manager</b>	[ ]	B9330A	003
• Implementation Service (#302 or #303 required)	[ x ]	H9273A	
• Implementation Service for Simple environments	[ ]	H9273A	302
• Implementation Service for Complex environments	[ ]	H9273A	303
• <b>Business Copy XP 1 TB LTU</b>	[ ]	B9331A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Business Copy XP 5 TB LTU</b>	[ ]	B9332A	
First Year of System Support Option (required)	[ x ]		OS6



Description		Product #	Opt#
• <b>Business Copy XP 10 TB LTU</b>	[ ]	B9333A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Business Copy XP 25 TB LTU</b>	[ ]	B9334A	
First Year of System Support Option (required)	[ x ]		OS6
<b>Secure Manager XP Media</b>			
First Year of System Support Option (required)	[ x ]	B9351A	OS6
<i>Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)</i>	[ ]		OSY
• <b>Secure Manager XP Media For XP48</b>	[ ]	B9351A	003
• <b>Secure Manager XP 1 TB LTU</b>	[ ]	B9352A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Secure Manager XP 5 TB LTU</b>	[ ]	B9353A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Secure Manager XP 10 TB LTU</b>	[ ]	B9354A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Secure Manager XP 25 TB LTU</b>	[ ]	B9355A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto Path XP for AIX</b>	[ ]	B7936B	
First Year of System Support Option (required)	[ x ]		OS6
<i>Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)</i>	[ ]		OSY
• <b>Auto Path for W2K/Pentium Media</b>	[ ]	B9500A	
First Year of System Support Option (required)	[ x ]		OS6
<i>Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)</i>	[ ]		OSY
• <b>Auto Path for W2K/Pentium 1 Server LTU</b>	[ ]	B9501A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto Path for W2K/Pentium 5 Server LTU</b>	[ ]	B9502A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto Path for W2K/Pentium 10 Server LTU</b>	[ ]	B9503A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto Path for W2K/Pentium 25 Server LTU</b>	[ ]	B9504A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto Path for NT Media</b>	[ ]	B9505A	
First Year of System Support Option (required)	[ x ]		OS6
<i>Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)</i>	[ ]		OSY
• <b>Auto Path for NT 1 Server LTU</b>	[ ]	B9506A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto Path for NT 5 Server LTU</b>	[ ]	B9507A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto Path for NT 10 Server LTU</b>	[ ]	B9508A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto Path for NT 25 Server LTU</b>	[ ]	B9509A	
First Year of System Support Option (required)	[ x ]		OS6
<b>Cluster Extension XP</b>			
• <b>Cluster Extension XP for Veritas Cluster Server (Mar'01)</b>	[ ]	B9531A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Cluster Extension XP for IBM HACMP (Feb'01)</b>	[ ]	B9532A	
First Year of System Support Option (required)	[ x ]		OS6
<b>Performance</b>			
• <b>Cache LUN XP Media</b>	[ ]	B9345A	
First Year of System Support Option (required)	[ x ]		OS6
<i>Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)</i>	[ ]		OSY
• <b>Cache LUN XP Media For XP48</b>	[ ]	B9345A	003
• <b>Cache LUN XP 1 TB LTU</b>	[ ]	B9346A	



Description		Product #	Opt#
First Year of System Support Option (required)	[ x ]		OS6
• <b>Cache LUN XP 5 TB LTU</b>	[ ]	B9347A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Cache LUN XP 10 TB LTU</b>	[ ]	B9348A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Cache LUN XP 25 TB LTU</b>	[ ]	B9349A	
First Year of System Support Option (required)	[ x ]		OS6
<b>Performance Advisor XP</b>		B9369A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
<b>Auto LUN XP Media</b>		[ ]	B9340A
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• <b>Auto LUN XP Media For XP48</b>	[ ]	B9340A	003
• <b>Auto LUN XP 1 TB LTU</b>	[ ]	B9341A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto LUN XP 5 TB LTU</b>	[ ]	B9342A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto LUN XP 10 TB LTU</b>	[ ]	B9343A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto LUN XP 25 TB LTU</b>	[ ]	B9344A	
First Year of System Support Option (required)	[ x ]		OS6
<b>Array Management</b>			
<b>HP Surestore Command View XP</b>		[ ]	B9357A
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• <b>HP Surestore Command View XP For New XP48 Installations</b>	[ ]	B9357A	005
Includes Remote Control XP For XP48 Includes Try'n Buy License Certificates For: LUN Config Manager XP Media For XP48 Auto LUN XP Media For XP48 Cache LUN XP Media For XP48 Secure Manager XP Media For XP48			
• <b>Remote Control XP Upgrade For XP48</b>	[ ]	B9357A	006
<b>LUN Configuration Manager XP Media</b>		[ ]	B9335A
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• <b>LUN Configuration Mgr XP Media For XP48</b>	[ ]	B9335A	003
• <b>LUN Configuration Mgr XP 1 TB LTU</b>	[ ]	B9336A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>LUN Configuration Mgr XP 5 TB LTU</b>	[ ]	B9337A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>LUN Configuration Mgr XP 10 TB LTU</b>	[ ]	B9338A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>LUN Configuration Mgr XP 25 TB LTU</b>	[ ]	B9339A	
First Year of System Support Option (required)	[ x ]		OS6
<b>Mainframe Software</b>			
• <b>Resource Manager XP</b>	[ ]	B9358A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• <b>Resource Manager XP For XP48</b>	[ ]	B9358A	003
• <b>Data Exchange XP For HP-UX</b>	[ ]	B9359A	



Description		Product #	Opt#
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP HP-UX For XP48	[ ]	B9359A	003
• Data Exchange XP For Windows NT (also supports W2K)	[ ]	B9360A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP Win NT For XP48	[ ]	B9360A	003
• Data Exchange XP For Solaris	[ ]	B9361A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP Solaris For XP48	[ ]	B9361A	003
• Data Exchange XP For AIX	[ ]	B9362A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP AIX For XP48	[ ]	B9362A	003
• Data Exchange XP For Tru64	[ ]	B9363A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP Tru64 For XP48	[ ]	B9363A	003

#### 4.9.10—HP Surestore Disk Array XP512 Structured Solution Programs

Description		Product #	Opt#
1.0 HP Surestore Disk Array XP512 Solution	[ x ]	A5950A	
2.0 Surestore Disk Array XP512 Control Frame (1 required) Base DKC configuration is 3 phase 50/60 Hz . For single phase, select one single phase power option			
XP512 Disk Control Frame with 1 ACP pair, Redundant Power Supplies for CHIP prs 1 and 2, HP Firmware (microcode) and Continuous Track XP with Modem and pcAnywhere	[ ]	A5951A	
XP512 Disk Control Frame			
1 GB Cache Memory Module, Quantity 2			
256 MB Shared Memory Module, Quantity 2			
FC Device Cable Set, DKC to R1U-DKU			
SNMP Support Kit			
60 Hz Single Phase Power, DKC	[ ]	A5951A	#001
Power Cable Kit, Single Phase 60HZ DKC			
AC Box Kit for Single Phase DKC			
50 Hz Single Phase Power, DKC	[ ]	A5951A	#002
Power Cable Kit, Single Phase 50HZ DKC			
AC Box Kit for Single Phase DKC			
2.1 Client-Host Interface Processor pairs (Min1 pr Max 4 pr)			
4 Port ExSA Channel Adapter Pair	[ ]	A5953A	
8 Port ExSA Channel Adapter Pair	[ ]	A5954A	
4 Port Fiber Channel Adapter Pair for Short Wave	[ ]	A5955A	
8 Port Fiber Channel Adapter Pair for Short Wave (While quantities last)	[ ]	A5956A	
8 Port Fiber Channel for Continuous Access Adapter Pair for Short Wave	[ ]	A5957A	
2.2 Additional DKC Power Supply for CHIP pairs 3 and 4			
Additional CHIP Power Supply	[ ]	A5961A	
2.3 Additional Nonvolatile Cache (Min 0, Max 32 GB including 2 GB cache in base DKC configuration)			
2 GB Cache Memory Module	[ ]	A5962A	
2.4 Additional Cache Platform Board (Min 0, Max 1) Required for cache beyond 16 GB including 2 GB in base DKC configuration.			
Additional Cache Platform Board	[ ]	A5960A	
2.5 Additional Shared Memory (Min 0, Max 1,280 MB including 512 MB Shared Memory in base DKC configuration)			
256 MB Shared Memory Module	[ ]	A5963A	

## Chapter 4 Storage, Accessories, and Other Peripherals



	Description		Product #	Opt#
2.6	Additional Array Control Processor (Min 0, Max 4 including 1 ACP pair in base DKC configuration) Array Control Processor (ACP) pair	[ ]	A5964A	
2.7	DKU Frame L1 Interconnect - FC Device Cable Set. Required if DKU is configured to position L1. (No cables required for DKU in position R1). Min 0, Max 1. FC Device Cable Set, DKC to L1 or R1 DKU	[ ]	A5974A	
3.0	Disk Array Frame (Min 1 position R1, Max 6) Must select one option and must match Power option of DKC, no intermixing of power options. FC Device Cable Set A5974A required for position L1 DKU. XP512 Disk Array Frame ( Must select one power option) XP512 Disk Array Frame Disk Canister Mount Platform	[ ]	A5965A	
	3 Phase, 60 Hz, for DKU AC Box for 3 Phase DKU Power Cable Kit, 3 phase, 60 Hz DKU	[ ]	A5965A	#001
	3 Phase, 50 Hz, for DKU AC Box for 3 Phase DKU Power Cable Kit, 3 phase, 50 Hz DKU	[ ]	A5965A	#002
	Single Phase, 60 Hz, for DKU AC Box for Single Phase, DKU Power Cable Kit, single phase, 60 Hz DKU	[ ]	A5965A	#003
	Single Phase, 50 Hz, for DKU AC Box for Single Phase, DKU Power Cable Kit, single phase, 50 Hz DKU	[ ]	A5965A	#004
3.1	Disk Array Groups (min 1 max 126)(23 R1 and L1)(24 R2 and L2) (16 R3 and L3) 18 GB 10k rpm, FC Disk Array Group - 4 drives per group (While quantities last) 18 GB 15k rpm, FC Disk Array Group - 4 drives per group (Obsoletes 18GB-10k after inventory roll)	[ ]	A5966A	
	• 47 GB 10K rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5967A	
	73 GB 10k rpm, FC Disk Array Group - 4 drives per group	[ ]	A5968A	
3.2	Spare Disk Drives (Min 1 per array group size ) Max Spare Drives per position: 4 in R1 and 4 in L1. 18 GB 10k rpm, FC Spare Disk Drive (While quantities last) 18 GB 15k rpm, FC Spare Disk Drive (Obsoletes 18GB-10k after inventory roll)	[ ]	A5966S	
	• 47 GB 10K rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5967S	
	73 GB 10K rpm, FC Spare Disk Drive	[ ]	A5968S	
3.3	DKU Frame Interconnect - FC Device Cable Set. DKUs in positions R2, R3, L2 and L3 require one set A5975A cable for each position configured. Min 0, Max 4. (No cables required for DKU position R1. One cable set A5974A required for DKU position L1 only.) FC Device Cable Set, DKU to R2, R3, L2, or L3 DKU END SSP	[ ]	A5975A	
<b>Host Interface Cables</b>				
	Fibre Channel Cables	[ ]	A5750A	
	16 meter Fibre Channel Cable, 50 micron, multimode	[ ]	A5750A	001
	50 meter Fibre Channel Cable, 50 micron, multimode	[ ]	A5750A	002
	100 meter Fibre Channel Cable, 50 micron, multimode	[ ]	A5750A	003
	Fibre Optic Cables (ESCON)		A5752A	
	Fiber Optic Cable - 7m	[ ]	A5752A	001
	Fiber Optic Cable - 13m	[ ]	A5752A	002
	Fiber Optic Cable - 22m	[ ]	A5752A	003
	Fiber Optic Cable - 31m	[ ]	A5752A	004
	Fiber Optic Cable - 46m	[ ]	A5752A	005
	Fiber Optic Cable - 61m	[ ]	A5752A	006
	Fiber Optic Cable - 92m	[ ]	A5752A	007
	Fiber Optic Cable - 122m	[ ]	A5752A	008

### 4.9.11—XP512 Upgrades

Description		Product #	Opt. #
<b>Order Configuration Rules:</b>			
1. Upgrade products are bundled with the solution, NOT integrated			
2. Upgrades cannot be on the same order section with a SSP A5950A system order.			
3. Cables and Software can be on the same order section as the upgrades.			
<b>UPGRADE PRODUCTS</b>			
• 4 Port ExSA Channel Adapter Pair	[ ]	A5953U	
• 8 Port ExSA Channel Adapter Pair	[ ]	A5954U	
• 4 Port Fiber Channel Adapter Pair for Short Wave	[ ]	A5955U	
• 8 Port Fiber Channel Adapter Pair for Short Wave (While quantities last)	[ ]	A5956U	
• 8 Port Fiber Channel for Continuous Access Adapter Pair for Short Wave (Host & CA Support)	[ ]	A5957U	
• Additional CHIP Power Supply	[ ]	A5961U	
• 2 GB Cache Memory Module	[ ]	A5962U	
• Additional Cache Platform Board	[ ]	A5960U	
• 256 MB Shared Memory Module	[ ]	A5963U	
• Array Control Processor (ACP) Pair	[ ]	A5964U	
• <b>XP512 Disk Array Frame</b> ( Must select one power option)	[ ]	A5965U	
XP512 Disk Array Frame			
Disk Canister Mount Platform			
• 3 Phase, 60 Hz, for DKU	[ ]	A5965U	001
AC Box for 3 Phase DKU			
Power Cable Kit, 3 phase, 60 Hz DKU			
• 3 Phase, 50 Hz, for DKU	[ ]	A5965U	002
AC Box for 3 Phase DKU			
Power Cable Kit, 3 phase, 50 Hz DKU			
• Single Phase, 60 Hz, for DKU	[ ]	A5965U	003
AC Box for Single Phase, DKU			
Power Cable Kit, single phase, 60 Hz DKU			
• Single Phase, 50 Hz, for DKU	[ ]	A5965U	004
AC Box for Single Phase, DKU			
Power Cable Kit, single phase, 50 Hz DKU			
• 18 GB 10k rpm, FC Disk Array Group - 4 drives per group (While quantities last)	[ ]	A5966U	
• 18 GB 15k rpm, FC Disk Array Group - 4 drives per group (Obsoletes 18GB-10k after inventory roll)	[ ]	A5970U	
• 47 GB 10K rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5967U	
• 73 GB 10k rpm, FC Disk Array Group - 4 drives per group	[ ]	A5968U	
• 18 GB 10k rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5966SU	
• 18 GB 15k rpm, FC Spare Disk Drive (Obsoletes 18GB-10k after inventory roll)	[ ]	A5970SU	
• 47 GB 10K rpm, FC Spare Disk Drive (While quantities last)	[ ]	A5967SU	
• 73 GB 10K rpm, FC Spare Disk Drive	[ ]	A5968SU	
• FC Device Cable Set, DKC to L1 or R1-DKU Upgrade	[ ]	A5974U	
• FC Device Cable Set, DKU to R2, R3, L2, or L3 DKU Upgrade	[ ]	A5975U	
<b>XP-iCOD-S Products</b>			
• 2GB cache memory, XP-iCOD-S	[ ]	A5962D	
• 256MB Shared Memory Module, XP-iCOD-S	[ ]	A5963D	
• Additional ACP pair, XP-iCOD-S	[ ]	A5964D	
• 18 GB array group - 4 drives per group, XP-iCOD-S	[ ]	A5966D	
• 18 GB 15k rpm, array group - 4 drives per group, XP-iCOD-S	[ ]	A5966D	
• 73 GB array group - 4 drives per group, XP-iCOD-S	[ ]	A5968D	



4.9.12—XP512 Software, Orca Release – Rev 17.1  
Last Revision 4/17/01

Description		Product #	Opt#
<b>Software</b>			
<b>All LTU products for initial purchase or upgrade</b>			
<b>Data Mirroring/Security</b>			
• <b>Continuous Access XP Media</b>	[ ]	B9320A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• <b>Continuous Access XP Media For XP512 includes RAID Manager</b>	[ ]	B9320A	002
• <b>Continuous Access XP 1 TB LTU</b>	[ ]	B9321A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP 5 TB LTU</b>	[ ]	B9322A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP 10 TB LTU</b>	[ ]	B9323A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP 25 TB LTU</b>	[ ]	B9324A	
First Year of System Support Option (required)	[ x ]		
• <b>Continuous Access XP Extension Media</b>	[ ]	B9325A	
First Year of System Support Option zero-cost trigger (required)	[ x ]		OS6
• <b>Continuous Access XP Ext. Media For XP512</b>	[ ]	B9325A	002
• <b>Continuous Access XP Ext. 1 TB LTU</b>	[ ]	B9326A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP Ext. 5 TB LTU</b>	[ ]	B9327A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP Ext. 10 TB LTU</b>	[ ]	B9328A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Continuous Access XP Ext. 25 TB LTU</b>	[ ]	B9329A	
First Year of System Support Option (required)	[ x ]		
• <b>Business Copy XP Media</b>	[ ]	B9330A	
First Year of System Support Option zero-cost trigger (required)	[ x ]		OS6
• <b>Business Copy XP Media For XP512 includes RAID Manager</b>	[ ]	B9330A	002
• <b>Implementation Service (#302 or #303 required)</b>	[ x ]	H9273A	
• Implementation Service for Simple environments	[ ]	H9273A	302
• Implementation Service for Complex environments	[ ]	H9273A	303
• <b>Business Copy XP 1 TB LTU</b>	[ ]	B9331A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Business Copy XP 5 TB LTU</b>	[ ]	B9332A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Business Copy XP 10 TB LTU</b>	[ ]	B9333A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Business Copy XP 25 TB LTU</b>	[ ]	B9334A	
First Year of System Support Option (required)	[ x ]		
• <b>Secure Manager XP Media</b>	[ ]	B9351A	
First Year of System Support Option zero-cost trigger (required)	[ x ]		OS6
<i>Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)</i>	[ ]		OSY
• <b>Secure Manager XP Media For XP512</b>	[ ]	B9351A	002
• <b>Secure Manager XP 1 TB LTU</b>	[ ]	B9352A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Secure Manager XP 5 TB LTU</b>	[ ]	B9353A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Secure Manager XP 10 TB LTU</b>	[ ]	B9354A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Secure Manager XP 25 TB LTU</b>	[ ]	B9355A	



Description		Product #	Opt#
First Year of System Support Option (required)	[ x ]		
• Auto Path XP for AIX	[ ]	B7936B	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Auto Path for W2K/Pentium Media	[ ]	B9500A	
First Year of System Support Option zero-cost trigger (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Auto Path for W2K/Pentium 1 Server LTU	[ ]	B9501A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for W2K/Pentium 5 Server LTU	[ ]	B9502A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for W2K/Pentium 10 Server LTU	[ ]	B9503A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for W2K/Pentium 25 Server LTU	[ ]	B9504A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for NT Media	[ ]	B9505A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Auto Path for NT 1 Server LTU	[ ]	B9506A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for NT 5 Server LTU	[ ]	B9507A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for NT 10 Server LTU	[ ]	B9508A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for NT 25 Server LTU	[ ]	B9509A	
First Year of System Support Option (required)	[ x ]		OS6
<b>Cluster Extension XP</b>			
• Cluster Extension XP for Veritas Cluster Server (Mar'01)	[ ]	B9531A	
First Year of System Support Option (required)	[ x ]		OS6
• Cluster Extension XP for IBM HACMP (Feb'01)	[ ]	B9532A	
First Year of System Support Option (required)	[ x ]		OS6
<b>Performance</b>			
• Cache LUN XP Media	[ ]	B9345A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Cache LUN XP Media For XP512	[ ]	B9345A	002
• Cache LUN XP 1 TB LTU	[ ]	B9346A	
First Year of System Support Option (required)	[ x ]		OS6
• Cache LUN XP 5 TB LTU	[ ]	B9347A	
First Year of System Support Option (required)	[ x ]		OS6
• Cache LUN XP 10 TB LTU	[ ]	B9348A	
First Year of System Support Option (required)	[ x ]		OS6
• Cache LUN XP 25 TB LTU	[ ]	B9349A	
First Year of System Support Option (required)	[ x ]		
<b>Performance Advisor XP</b>			
First Year of System Support Option (required)	[ x ]	B9369A	OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
<b>Auto LUN XP Media</b>			
First Year of System Support Option zero-cost trigger (required)	[ x ]	B9340A	OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY

Description		Product #	Opt#
existing array)			
• <b>Auto LUN XP Media For XP512</b>	[ ]	B9340A	002
• <b>Auto LUN XP 1 TB LTU</b>	[ ]	B9341A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto LUN XP 5 TB LTU</b>	[ ]	B9342A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto LUN XP 10 TB LTU</b>	[ ]	B9343A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>Auto LUN XP 25 TB LTU</b>	[ ]	B9344A	
First Year of System Support Option (required)	[ x ]		
<b>Array Management</b>			
• <b>HP Surestore Command View XP</b>	[ ]	B9357A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• <b>HP Surestore Command View XP For New XP512 Installations</b>	[ ]	B9357A	002
Includes Remote Control XP For XP512			
Includes Try'n Buy License Certificates For:			
LUN Config Manager XP Media For XP512			
Auto LUN XP Media For XP512			
Cache LUN XP Media For XP512			
Secure Manager XP Media For XP512			
• <b>Remote Control XP Upgrade For XP512</b>	[ ]	B9357A	004
• <b>LUN Configuration Manager XP Media</b>	[ ]	B9335A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• <b>LUN Configuration Mgr XP Media For XP512</b>	[ ]	B9335A	002
• <b>LUN Configuration Mgr XP 1 TB LTU</b>	[ ]	B9336A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>LUN Configuration Mgr XP 5 TB LTU</b>	[ ]	B9337A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>LUN Configuration Mgr XP 10 TB LTU</b>	[ ]	B9338A	
First Year of System Support Option (required)	[ x ]		OS6
• <b>LUN Configuration Mgr XP 25 TB LTU</b>	[ ]	B9339A	
First Year of System Support Option (required)	[ x ]		
<b>Mainframe Software</b>			
• <b>Resource Manager XP</b>	[ ]	B9358A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Resource Manager XP For XP512	[ ]	B9358A	002
• <b>Data Exchange XP For HP-UX</b>	[ ]	B9359A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP HP-UX For XP512	[ ]	B9359A	002
• <b>Data Exchange XP For Windows NT</b>	[ ]	B9360A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP Win NT For XP512	[ ]	B9360A	002
• <b>Data Exchange XP For Solaris</b>	[ ]	B9361A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP Solaris For XP512	[ ]	B9361A	002
• <b>Data Exchange XP For AIX</b>	[ ]	B9362A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY

Description		Product #	Opt#
• Data Exchange XP AIX For XP512	[ ]	B9362A	002
• <b>Data Exchange XP For Tru64</b>	[ ]	B9363A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP Tru64 For XP512	[ ]	B9363A	002

### 4.9.13—HP Surestore Disk Array XP256

**NOTE:** The XP256 will be put on Blind CPL August 1<sup>st</sup> 2001, for easy order configuration for the Fire Sale on the remaining 42 DKC that are available (While quantities last). Must contact factory for availability before quoting. The XP256 “A/S” product then will be remove again and only the “Upgrades will be available as new”.

**NOTE:** The XP256 will be removed from CPL on 12/31/00. After that time new systems will no longer be orderable. Prior to 12/31, contact CSU factory for XP256 availability.

**Ordering Process (XP256 Base Products Off CPL December 31, 2000 - Upgrades Products remain on CPL – 37GB/47GB Disks replaced with 73GB Disk)**

Description	Off CPL Date	Replacement Product (if any)	Notes
XP256 Base Products (1)	December 31, 2000	XP512 and XP48(2)	Actual XP256 base product availability is quoted at time of order.
XP256 37GB SCSI Array Groups, Spares and iCOD-S	December 31, 2000 (all)	73GB SCSI Array Groups, Spares (3)	Actual 37GB SCSI drive availability is quoted at time of order.
XP256 47GB SCSI Array Groups, Spares and iCOD-S	December 31, 2000 (base/upgrades)	73GB SCSI Array Groups, Spares (3)	

1. XP256 base products include all new: Control Frames (DKC's), Disk Frames (DKU's), Array Groups, Cache, Shared Memory, ACP pairs, CHIP pairs (SCSI, Fibre Channel & ESCON), Array Frame Cables
2. 73GB SCSI Array Groups, Spares will be available in December 2000.

#### Overview

Once the configuration choices have been made and saved in WATSON or Sales Builder for Windows (SBW), the configuration may be converted to a quote and imported into the order entry system. If configuration tools such as WATSON or SBW are not available, then it is important to follow an ascending numeric order for each Item / Sub-Item ordered in sequence. See Appendix for step by step Manual Procedures for configuring the XP256.

#### Structured Solution Programs (SSP's):

The HP Structured Solution Program (SSP) has been designed to make the ordering process simple, flexible, and easy to understand. It is completely menu driven requiring only a few simple choices for the various components in the system. Minimum/maximum numbers have been inserted into the menu wherever possible to simplify your choices and to guide your configuration decisions.

There is one SSP for this product: A5700A – offers a fully configurable menu of choices that span the entire capacity range of configurations

#### 1. Host Interface Cables

Offers cable choices for each host interface in various lengths.



**2. Software**

Offers a wide choice of software products.

**3. Upgrade Products**

Allows for upgrading an existing array with more cache, disk storage, or host interfaces.

**4. Product Support and Services**

Choose the HW and SW support, and consulting services that your customer wants.

**HP Surestore Disk Array XP256**

	Description		Product #	Opt #	Status
1.0	HP Surestore Disk Array XP256 - Fully Configurable SSP	[ x ]	A5700A		While quantities last
2.0	Surestore Disk Array XP256 Control Fra (Required -- 1 Max)				
	Disk Control Frame - 3-phase power, 60 Hz and 50 Hz.	[ ]	A5701A		While quantities last
	Includes disk control frame with 1 ACP pair, HP Firmware, Continuous Track XP with Modem, 1GB cache memory, 256 MB shared memory, and redundant power.				
	Disk Control Frame with 60 Hz 1-phase power	[ ]	A5701B		While quantities last
	Includes disk control frame with 1 ACP pair, HP Firmware, Continuous Track XP with Modem, 1GB cache memory, 256 MB shared memory, and redundant power.				
	Disk Control Frame with 50 Hz 1-phase power	[ ]	A5701C		While quantities last
	Includes disk control frame with 1 ACP pair, HP Firmware, Continuous Track XP with Modem, 1GB cache memory, 256 MB shared memory, and redundant power.				
2.1	Client-Host Interface Processor (CHIP) pairs (Min.1 pair - Max. 4 pair)				
	8-Port SCSI adapter pair	[ ]	A5702A		While quantities last
	4-ExSA (ESCON compatible) channel adapter pair	[ ]	A5703A		While quantities last
	8-ExSA (ESCON compatible) channel adapter pair	[ ]	A5704A		While quantities last
	4-port fiber channel adapter pair	[ ]	A5705A		While quantities last
	Additional Redundant Power Supply needed for CHIP Pairs 3-4 (Min. 0, Max. 1)	[ ]	A5740A		While quantities last
2.2	Additional Cache Memory (1 GB) (Min 0, Max 15)	[ ]	A5710A		While quantities last
	Additional Cache Platform Board (Min 0, Max 1) Required for Cache > 8 GB	[ ]	A5711A		While quantities last
2.3	Additional Shared Memory (128 MB) (Min 0, Max 2)	[ ]	A5712A		While quantities last
2.4	Additional Array Control Processor (ACP) Pairs (Min 0, Max 3)	[ ]	A5719A		While quantities last
2.5	Fibre Channel Control Frame** (Min 0, Max 1)	[ ]	A5706A		While quantities last
	If A5706A is selected then a minimum of two FC-SCSI Bridges (A5707A) and a minimum of one SCSI CHIP (A5702A) are required. Includes all Bridge racking hardware, 2PDUs, and power cords				
	FC-SCSI Bridge	[ ]	A5707A		While quantities last
	FC-SCSI Bridge -if A5706A is ordered, Min 2, Max 16. Must order in multiples of 2				
	Disk Array Frame Configuration: Frame R1 Required. Min 1, Max 58 array groups				
	Default Factory Configuration is RAID-1				
3.0	R1 Disk Array Frame (Min 1 - Max 1)				
	Cannot intermix 1 phase, 50Hz and 60Hz frames on same order.				
	60 Hz 3-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5708A		
	60 Hz 1-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5708B		
	50 Hz 3-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5709A		
	50 Hz 1-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5709B		
3.1	Frame R1 Configuration (Min. 1 - Max. 15 array groups)				
	ACP pair for Domain 2 must be ordered for array groups 8 to 15.				
	15 GB array group - 4 drives per group	[ ]	A5721R1		While quantities last
	36.9 GB array group - 4 drives per group	[ ]	A5723R1		While quantities last
	47 GB array group - 4 drives per group	[ ]	A5726R1		While quantities last
	73 GB array group - 4 drives per group	[ ]	A5727R1		While quantities last
	R1 Spare Disk Drives (Min 1 per Array Group capacity, Max 4)				
	15 GB spare drive (15 GB SP Drive)	[ ]	A5731S		While quantities last





	Description		Product #	Opt #	Status
	GB spare drive (47 GB SP Drive)	[ ]	A5736S		While quantities last
3.2	R2 Disk Array Frame (Min 0 - Max 1)				
	Cannot intermix 1 phase, 50Hz and 60Hz frames on same order.				
	60 Hz 3-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5708A		
	60 Hz 1-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5708B		
	50 Hz 3-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5709A		
	50 Hz 1-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5709B		
3.3	Frame R2 Configuration (Min. 0 - Max. 14 array groups)				
	ACP pair for Domain 2 must be ordered for array groups 8 to 14.				
	15 GB array group - 4 drives per group	[ ]	A5721R2		While quantities last
	36.9 GB array group - 4 drives per group	[ ]	A5723R2		While quantities last
	47 GB array group - 4 drives per group	[ ]	A5726R2		While quantities last
	73 GB array group - 4 drives per group	[ ]	A5727R2		While quantities last
	SCSI Cable Set for Frame R2 (Required if frame R2 is ordered)	[ ]	A5746A		
3.4	L1 Disk Array Frame (Min 0 - Max 1)				
	Cannot intermix 1 phase, 50Hz and 60Hz frames on same order.				
	60 Hz 3-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5708A		
	60 Hz 1-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5708B		
	50 Hz 3-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5709A		
	50 Hz 1-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5709B		
3.5	Frame L1 Array Group Configuration (Min. 0 - Max. 15 array groups)				
	ACP pair for Domain 3 required for array groups 1-7.				
	ACP pair for Domain 4 required for array groups 8-15.				
	15 GB array group - 4 drives per group	[ ]	A5721L1		While quantities last
	36.9 GB array group - 4 drives per group	[ ]	A5723L1		While quantities last
	47 GB array group - 4 drives per group	[ ]	A5726L1		While quantities last
	73 GB array group - 4 drives per group	[ ]	A5727L1		While quantities last
	SCSI Cable Set for Frame L1 (Required if L1 Frame is ordered)	[ ]	A5745A		
	L1 Spare Disk Drives (Min 0 - Max 4)				
	15 GB spare drive (15 GB SP Drive)	[ ]	A5731S		While quantities last
	36.9 GB spare drive (47 GB SP Drive)	[ ]	A5733S		While quantities last
	47 GB spare drive (47 GB SP Drive)	[ ]	A5736S		While quantities last
	73 GB spare drive (47 GB SP Drive)	[ ]	A5737S		While quantities last
3.6	L2 Disk Array Frame (Min 0 - Max 1)				
	Cannot intermix 50Hz and 60Hz frames on same order.				
	60 Hz 3-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5708A		
	60 Hz 1-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5708B		
	50 Hz 3-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5709A		
	50 Hz 1-phase Disk Array frame w/ 2 Disk Canister Mount Platforms	[ ]	A5709B		
3.7	Frame L2 Array Group Configuration (Min. 0 - Max. 14 array groups)				
	Configuration of Frame L1 required, ACP pair for Domain 4 must be ordered for array groups 8-14.				
	15 GB array group - 4 drives per group	[ ]	A5721L2		While quantities last
	36.9 GB array group - 4 drives per group	[ ]	A5723L2		While quantities last
	47 GB array group - 4 drives per group	[ ]	A5726L2		While quantities last
	73 GB array group - 4 drives per group	[ ]	A5727L2		While quantities last
	SCSI Cable Set for Frame L2 (Required if L2 frame is ordered)	[ ]	A5746A		

Support Delivery Trigger Option #2YB must be added to A5701A or A5701B or A5701C.

A5706A and A5707A for expanded FC connectivity only. For basic FC Connectivity use 4 port Fibre Channel adapter pair A5705A.

XP256 A5700A SSP (Hardware)

Description		Product #	Opt #
<b>Host Interface Cables</b>			
• Fibre Channel Cables		A5750A	
16 meter Fibre Channel Cable, 50 micron, multimode	[ ]		001
50 meter Fibre Channel Cable, 50 micron, multimode	[ ]		002
100 meter Fibre Channel Cable, 50 micron, multimode	[ ]		003
• SCSI Cables		A5751A	
20 meter 68-pin HDTS to 68-pin HDTS cable	[ ]		003
2 meter Y-cable/68-pin HDTS male cable	[ ]		004
5 meter 68-pin HDTS to 68-pin HDTS cable in-line terminator cable for V-Class	[ ]		005
10 meter 68-pin HDTS to 68-pin HDTS cable in-line terminator cable for V-Class	[ ]		006
2/3 meter Y in-line terminator cable – 68-pin HD male for V-Class	[ ]		007
2/5 meter Y in-line terminator cable – 68-pin HD male for V-Class	[ ]		008
5 meter 68P HD LP to 68P HD LP	[ ]		009
10 meter 68P HD LP to 68P HD LP	[ ]		010
• □ Fibre Optic Cables (ESCON compatible)		A5752A	
Fiber Optic Cable - 7m	[ ]		001
Fiber Optic Cable - 13m	[ ]		002
Fiber Optic Cable - 22m	[ ]		003
Fiber Optic Cable - 31m	[ ]		004
Fiber Optic Cable - 46m	[ ]		005
Fiber Optic Cable - 61m	[ ]		006
<b>Upgrade Products</b>			
• 8-Port SCSI adapter pair	[ ]	A5702U	
• 4-ExSA (ESCON compatible) channel adapter pair	[ ]	A5703U	
• 8-ExSA (ESCON compatible) channel adapter pair	[ ]	A5704U	
• 4 port fiber channel adapter pair	[ ]	A5705U	
• Additional redundant power supply for CHIP Pairs 3 to 4	[ ]	A5740U	
• 1GB cache memory	[ ]	A5710U	
• Additional cache platform board	[ ]	A5711U	
• 128MB Shared Memory Module	[ ]	A5712U	
• Additional ACP pair	[ ]	A5719U	
• 60 Hz 3-phase Disk Array frame w/ 2 disk canister mount platforms	[ ]	A5708A	
• 50 Hz 3-phase Disk Array frame w/ 2 disk canister mount platforms	[ ]	A5709A	
• 60 Hz 1-phase Disk Array frame w/ 2 disk canister mount platforms	[ ]	A5708B	
• 50 Hz 1-phase Disk Array frame w/ 2 disk canister mount platforms	[ ]	A5709B	
• 15 GB array group - (4 disk drives per group)	[ ]	A5721U	
• 36.9 GB array group - (4 disk drives per group)	[ ]	A5723U	While quantities last
• 47 GB array group - (4 disk drives per group)	[ ]	A5726U	While quantities last
• 73 GB array group - (4 disk drives per group)	[ ]	A5727U	
• 15 GB spare drive	[ ]	A5731U	
• 36.9 GB spare drive	[ ]	A5733U	While quantities last
• 47 GB spare drive	[ ]	A5736U	While quantities last
• 73 GB spare drive	[ ]	A5737U	
• SCSI Cable Set for Array Frame L1	[ ]	A5745U	
• SCSI Cable Set for Array Frames R2 and L2	[ ]	A5746U	
<b>XP-iCOD-S Products</b>			
• 1GB cache memory, XP-iCOD-S	[ ]	A5710D	
• 128MB Shared Memory Module, XP-iCOD-S	[ ]	A5712D	
• Additional ACP pair, XP-iCOD-S	[ ]	A5719D	
• 15 GB array group - 4 drives per group, XP-iCOD-S	[ ]	A5721D	
• 73 GB array group - 4 drives per group, XP-iCOD-S	[ ]	A5727D	
<b>Software</b>			
Data Mirroring/Security			
• Continuous Access XP Media	[ ]	B9320A	



Description		Product #	Opt #
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Continuous Access XP Media For XP256	[ ]	B9320A	001
includes RAID Manager			
• Continuous Access XP 1 TB LTU	[ ]	B9321A	
First Year of System Support Option (required)	[ x ]		OS6
• Continuous Access XP 5 TB LTU	[ ]	B9322A	
First Year of System Support Option (required)	[ x ]		OS6
• Continuous Access XP 10 TB LTU	[ ]	B9323A	
First Year of System Support Option (required)	[ x ]		OS6
• Continuous Access XP 25 TB LTU	[ ]	B9324A	
• First Year of System Support Option (required)	[ x ]		OS6
• Continuous Access XP Extension Media	[ ]	B9325A	
First Year of System Support Option (required)	[ x ]		OS6
• Continuous Access XP Ext. Media For XP256	[ ]	B9325A	001
• Continuous Access XP Ext. 1 TB LTU	[ ]	B9326A	
First Year of System Support Option (required)	[ x ]		OS6
• Continuous Access XP Ext. 5 TB LTU	[ ]	B9327A	
First Year of System Support Option (required)	[ x ]		OS6
• Continuous Access XP Ext. 10 TB LTU	[ ]	B9328A	
First Year of System Support Option (required)	[ x ]		OS6
• Continuous Access XP Ext. 25 TB LTU	[ ]	B9329A	
First Year of System Support Option (required)	[ x ]		OS6
• Business Copy XP Media	[ ]	B9330A	
First Year of System Support Option (required)	[ x ]		OS6
• Business Copy XP Media For XP256	[ ]	B9330A	001
includes RAID Manager			
• Implementation Service (#302 or #303 required)	[ x ]	H9273A	
• Implementation Service for Simple environments	[ ]	H9273A	302
• Implementation Service for Complex environments	[ ]	H9273A	303
• Business Copy XP 1 TB LTU	[ ]	B9331A	
First Year of System Support Option (required)	[ x ]		OS6
• Business Copy XP 5 TB LTU	[ ]	B9332A	
First Year of System Support Option (required)	[ x ]		OS6
• Business Copy XP 10 TB LTU	[ ]	B9333A	
First Year of System Support Option (required)	[ x ]		OS6
• Business Copy XP 25 TB LTU	[ ]	B9334A	
First Year of System Support Option (required)	[ x ]		OS6
• Secure Manager XP Media	[ ]	B9351A	
First Year of System Support Option (required)	[ x ]		OS6
• Secure Manager XP Media For XP256	[ ]	B9351A	001
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Secure Manager XP 1 TB LTU	[ ]	B9352A	
First Year of System Support Option (required)	[ x ]		OS6
• Secure Manager XP 5 TB LTU	[ ]	B9353A	
First Year of System Support Option (required)	[ x ]		OS6
• Secure Manager XP 10 TB LTU	[ ]	B9354A	
First Year of System Support Option (required)	[ x ]		OS6
• Secure Manager XP 25 TB LTU	[ ]	B9355A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path XP for AIX	[ ]	B7936B	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Auto Path for W2K/Pentium Media	[ ]	B9500A	
First Year of System Support Option (required)	[ x ]		OS6

## Chapter 4 Storage, Accessories, and Other Peripherals



Description		Product #	Opt #
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Auto Path for W2K/Pentium 1 Server LTU	[ ]	B9501A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for W2K/Pentium 5 Server LTU	[ ]	B9502A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for W2K/Pentium 10 Server LTU	[ ]	B9503A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for W2K/Pentium 25 Server LTU	[ ]	B9504A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for NT Media	[ ]	B9505A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Auto Path for NT 1 Server LTU	[ ]	B9506A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for NT 5 Server LTU	[ ]	B9507A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for NT 10 Server LTU	[ ]	B9508A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto Path for NT 25 Server LTU	[ ]	B9509A	
First Year of System Support Option (required)	[ x ]		OS6
• Cluster Extension XP for Veritas Cluster Server (Mar'01)	[ ]	B9531A	
First Year of System Support Option (required)	[ x ]		OS6
• Cluster Extension XP for IBM HACMP (Feb'01)	[ ]	B9532A	
First Year of System Support Option (required)	[ x ]		OS6
Performance			
• Cache LUN XP Media	[ ]	B9345A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Cache LUN XP Media For XP256	[ ]	B9345A	001
• Cache LUN XP 1 TB LTU	[ ]	B9346A	
First Year of System Support Option (required)	[ x ]		OS6
• Cache LUN XP 5 TB LTU	[ ]	B9347A	
First Year of System Support Option (required)	[ x ]		OS6
• Cache LUN XP 10 TB LTU	[ ]	B9348A	
First Year of System Support Option (required)	[ x ]		OS6
• Cache LUN XP 25 TB LTU	[ ]	B9349A	
First Year of System Support Option (required)	[ x ]		OS6
• Performance Advisor XP		B9369A	
First year of system support required	[ x ]		OS6
SW Enablement option (included w/ initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Auto LUN XP Media	[ ]	B9340A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Auto LUN XP Media For XP256	[ ]	B9340A	001
• Auto LUN XP 1 TB LTU	[ ]	B9341A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto LUN XP 5 TB LTU	[ ]	B9342A	
First Year of System Support Option (required)	[ x ]		OS6
• Auto LUN XP 10 TB LTU	[ ]	B9343A	
First Year of System Support Option (required)	[ x ]		OS6
Array Management			
• Auto LUN XP 25 TB LTU	[ ]	B9344A	
First Year of System Support Option (required)	[ x ]		OS6

Description		Product #	Opt #
• HP Surestore Command View XP	[ ]	B9357A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• HP Surestore Command View XP For New XP256 Installations	[ ]	B9357A	001
Includes Remote Control XP For XP256			
• Command View XP Upgrade (for Existing XP256 Installations)	[ ]	B9357A	003
• LUN Configuration Manager XP Media	[ ]	B9335A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• LUN Configuration Mgr XP Media For XP256	[ ]	B9335A	001
• LUN Configuration Mgr XP 1 TB LTU	[ ]	B9336A	
First Year of System Support Option (required)	[ x ]		OS6
• LUN Configuration Mgr XP 5 TB LTU	[ ]	B9337A	
First Year of System Support Option (required)	[ x ]		OS6
• LUN Configuration Mgr XP 10 TB LTU	[ ]	B9338A	
First Year of System Support Option (required)	[ x ]		OS6
• LUN Configuration Mgr XP 25 TB LTU	[ ]	B9339A	
First Year of System Support Option (required)	[ x ]		OS6
Mainframe Software			
• Resource Manager XP	[ ]	B9358A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY
• Resource Manager XP For XP256	[ ]	B9358A	001
• Data Exchange XP For HP-UX (XP256)	[ ]	B7914A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP For Windows NT (XP256) (also supports W2K)	[ ]	B7920A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP For Solaris (XP256)	[ ]	B7921A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP For AIX (XP256)	[ ]	B7922A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY
• Data Exchange XP For Tru64 (XP256)	[ ]	B7923A	
First Year of System Support Option (required)	[ x ]		OS6
Software Enablement Option (required)	[ x ]		OSY

### Section 4.9.14—CNT UltraNet Storage Director

The CNT UltraNet Storage Director is a key component of HP's disaster-tolerant business continuity solutions, for use by HP customers with array-to-array data mirroring capabilities.

Two CNT UltraNet Storage Directors provide a high-speed switching platform at each data centre site, across unlimited distances, to interconnect HP XP48/512 storage systems to create an effective enterprise-wide storage area network (SAN).

By using either universally available telco-provided WAN links (e.g. ATM) or ubiquitous IP (Ethernet) packet-switched networks, HP customers can utilize better their existing network infrastructure. This allows users to maximize their cost savings by making more efficient use of their WAN connections whilst preventing considerable downtime, disruption and lost revenue by protecting one of their most valuable resources, data.



Description	Product #	Opt #	Price
CNT UltraNet Storage Director 6 slot Director with 2 Single ESCON ports and 1 WAN interface	CNTNSYAZ	OS6	
CNT UltraNet Storage Director 6 Slot Director with 2 Single ESCON ports and 2 WAN interfaces	CNTNSYBZ	OS6	
CNT UltraNet Storage Director 6 Slot Director with 2 Dual ESCON ports and 1 WAN interface	CNTNSYCZ	OS6	
CNT UltraNet Storage Director 6 Slot Director with 2 Dual ESCON ports and 2 WAN interfaces	CNTNSYDZ	OS6	

## 4.10 Solid State Disk – Excellerator™ file-caching solutions

The Excellerator from Solid Data is a file caching solution that multiplies system performance, scalability and reliability based on solid state disk (SSD) technology. It is the perfect fit in storage infrastructures that support mission-critical applications such as e-mail, messaging, and e-business applications, which heavily rely on speed of transaction processing. By combining HP Surestore disk arrays and Solid Data Excellerator file-caching appliances, an optimal high performance and high availability storage architecture can be configured. I/O wait will be eliminated; server performance and scalability in transaction-intensive applications will be multiplied.

Solid Data file-caching appliances are provided through HP Complementary Products (HPCP) on a worldwide basis. HP Support organization provides support services for the products (Multi-Vendor Support). Product Numbers as well as HP support options are available on CPL.

Description	Product #	Opt #	Price
<b>Chassis – SCSI Interface</b>			
<ul style="list-style-type: none"> <li> <b>800 Ultra, High Voltage Differential, Dual Port, SCSI Chassis</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 800 Chassis have 5 memory array board slots and can scale up to 10GB            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).            SCSI cable 68 Pin Micro D Male 0.9M/36"            SCSI cable 68 Pin Micro D Male 1.8M/72"            Universal Short Rack Mount Kit 0.4M/36"            Universal Long Rack Mount Kit 1.8M/72"            Slide Rack Mount Kit for HP Cabinets            Power Cord 0.9M/36" 230V            Standard US, 115VAC            Power Cord 1.8M/72" 230V            Standard US and some Foreign, 230VAC         </li> </ul>	SSDEMY1Z		
		OS3	
		OS6	
		S09	
		S18	
		R04	
		R18	
		R0H	
		P09	
		P15	
		P18	
		P23	
<ul style="list-style-type: none"> <li> <b>800 Ultra, Low Voltage, Dual Port, SCSI Chassis</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 800 Chassis have 5 memory array board slots and can scale up to 10GB            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).            SCSI cable 68 Pin Micro D Male 0.9M/36"            SCSI cable 68 Pin Micro D Male 1.8M/72"            SCSI cable VHDCI LVD cable 0.9M/36"            SCSI cable VHDCI LVD cable 1.8M/72"            Universal Short Rack Mount Kit 0.4M/36"            Universal Long Rack Mount Kit 1.8M/72"            Slide Rack Mount Kit for HP Cabinets            Power Cord 0.9M/36" 230V            Standard US, 115VAC            Power Cord 1.8M/72" 230V            Standard US and some Foreign, 230VAC         </li> </ul>	SSDEMY5Z		
		OS3	
		OS6	
		S09	
		S18	
		V09	
		V18	
		R04	
		R18	
		R0H	
		P09	
		P15	
		P18	
		P23	
<ul style="list-style-type: none"> <li> <b>1000 Ultra, High Voltage Differential, Dual Port, SCSI Chassis</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 1000 Chassis have 16 memory array board slots and can scale up to 32GB            First Year of System Support Option (8x5 same day).         </li> </ul>	SSDEMY2Z		
		OS3	



Description	Product #	Opt #	Price
First Year of System Support Option (24x7).		OS6	
SCSI cable 68 Pin Micro D Male 0.9M/36"		S09	
SCSI cable 68 Pin Micro D Male 1.8M/72"		S18	
Universal Short Rack Mount Kit 0.4M/36"		R04	
Universal Long Rack Mount Kit 1.8M/72"		R18	
Slide Rack Mount Kit for HP Cabinets		ROH	
Power Cord 0.9M/36" 230V		P09	
Standard US, 115VAC		P15	
Power Cord 1.8M/72" 230V		P18	
Standard US and some Foreign, 230VAC		P23	
<ul style="list-style-type: none"> <li> <b>1000 Ultra, Low Voltage, Dual Port, SCSI Chassis</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 1000 Chassis have 16 memory array board slots and can scale up to 32GB            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).            SCSI cable 68 Pin Micro D Male 0.9M/36"            SCSI cable 68 Pin Micro D Male 1.8M/72"            SCSI cable VHDCI LVD cable 0.9M/36"            SCSI cable VHDCI LVD cable 1.8M/72"            Universal Short Rack Mount Kit 0.4M/36"            Universal Long Rack Mount Kit 1.8M/72"            Slide Rack Mount Kit for HP Cabinets            Power Cord 0.9M/36" 230V            Standard US, 115VAC            Power Cord 1.8M/72" 230V            Standard US and some Foreign, 230VAC         </li> </ul>	SSDEMY6Z		
<b>Chassis – Fibre Channel Interface</b>			
<ul style="list-style-type: none"> <li> <b>800 Fibre Channel, Single Port, FC Chassis</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 800 Chassis have 5 memory array board slots and can scale up to 10GB            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).            Universal Short Rack Mount Kit 0.4M/36"            Universal Long Rack Mount Kit 1.8M/72"            Slide Rack Mount Kit for HP Cabinets            Power Cord 0.9M/36" 230V            Standard US, 115VAC            Power Cord 1.8M/72" 230V            Standard US and some Foreign, 230VAC         </li> </ul>	SSDEMY3Z		
<ul style="list-style-type: none"> <li> <b>800 Fibre Channel, Dual Port, FC Chassis</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 800 Chassis have 5 memory array board slots and can scale up to 10GB            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).            Universal Short Rack Mount Kit 0.4M/36"            Universal Long Rack Mount Kit 1.8M/72"            Slide Rack Mount Kit for HP Cabinets            Power Cord 0.9M/36" 230V            Standard US, 115VAC            Power Cord 1.8M/72" 230V            Standard US and some Foreign, 230VAC         </li> </ul>	SSDEMY7Z		
<ul style="list-style-type: none"> <li> <b>1000 Fibre Channel, Single Port, FC Chassis</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 1000 Chassis have 16 memory array board slots and can scale up to 32GB            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).            Universal Short Rack Mount Kit 0.4M/36"            Universal Long Rack Mount Kit 1.8M/72"         </li> </ul>	SSDEMY4Z		
		OS3	
		OS6	
		R04	
		R18	
		ROH	
		P09	
		P15	
		P18	
		P23	
		OS3	
		OS6	
		R04	
		R18	



Description	Product #	Opt #	Price
Slide Rack Mount Kit for HP Cabinets		ROH	
Power Cord 0.9M/36" 230V		P09	
Standard US, 115VAC		P15	
Power Cord 1.8M/72" 230V		P18	
Standard US and some Foreign, 230VAC		P23	
<ul style="list-style-type: none"> <li> <b>1000 Fibre Channel, Dual Port, FC Chassis</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 1000 Chassis have 16 memory array board slots and can scale up to 32GB            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).            Universal Short Rack Mount Kit 0.4M/36"            Universal Long Rack Mount Kit 1.8M/72"            Slide Rack Mount Kit for HP Cabinets            Power Cord 0.9M/36" 230V            Standard US, 115VAC            Power Cord 1.8M/72" 230V            Standard US and some Foreign, 230VAC         </li> </ul>	SSDEMY8Z		
		OS3	
		OS6	
		R04	
		R18	
		ROH	
		P09	
		P15	
		P18	
		P23	
<b>Memory Array Boards</b>			
<ul style="list-style-type: none"> <li> <b>512MB Memory Array Board</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 800 Chassis have 5 memory array board slots            Model 1000 Chassis have 16 memory array board slots            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).         </li> </ul>	SSDEMYBZ		
		OS3	
		OS6	
<ul style="list-style-type: none"> <li> <b>1GB Memory Array Board</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 800 Chassis have 5 memory array board slot            Model 1000 Chassis have 16 memory array board slots            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).         </li> </ul>	SSDEMY9Z		
		OS3	
		OS6	
<ul style="list-style-type: none"> <li> <b>2GB Memory Array Board</b>            Note: Prices include first year of system support (8x5 next day on-site)            Model 800 Chassis have 5 memory array board slots            Model 1000 Chassis have 16 memory array board slots            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).         </li> </ul>	SSDEMYAZ		
		OS3	
		OS6	
<b>Remote Monitoring and Reporting</b>			
<ul style="list-style-type: none"> <li> <b>Remote Monitoring and Reporting</b>            Note: Must be ordered together with a Chassis. Can be applied with any Chassis model; support is covered by the Chassis         </li> </ul>	SSDEMYRZ		
<b>e-100 Configured Solutions</b>			
<ul style="list-style-type: none"> <li> <b>e-100, High Voltage Differential, Dual Port, with 512MB</b>            Note: Price include first year of system support (8x5 next day on-site)            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).            SCSI cable 68 Pin Micro D Male 0.9M/36"            SCSI cable 68 Pin Micro D Male 1.8M/72"            Power Cord 0.9M/36" 230V            Standard US, 115VAC            Power Cord 1.8M/72" 230V            Standard US and some Foreign, 230VAC         </li> </ul>	SSDEMYGZ		
		OS3	
		OS6	
		S09	
		S18	
		P09	
		P15	
		P18	
		P23	
<ul style="list-style-type: none"> <li> <b>e-100, Low Voltage Differential, Dual Port, with 512MB</b>            Note: Price include first year of system support (8x5 next day on-site)            First Year of System Support Option (8x5 same day).            First Year of System Support Option (24x7).            SCSI cable 68 Pin Micro D Male 0.9M/36"            SCSI cable 68 Pin Micro D Male 1.8M/72"         </li> </ul>	SSDEMYHZ		
		OS3	
		OS6	
		S09	
		S18	





Description	Product #	Opt #	Price
SCSI cable VHDCI LVD cable 0.9M/36"		V09	
SCSI cable VHDCI LVD cable 1.8M/72"		V18	
Power Cord 0.9M/36" 230V		P09	
Standard US, 115VAC		P15	
Power Cord 1.8M/72" 230V		P18	
Standard US and some Foreign, 230VAC		P23	
• <b>e-100, High Voltage Differential, Dual Port, with 1GB</b>	SSDEMYIZ		
Note: Price include first year of system support (8x5 next day on-site)			
First Year of System Support Option (8x5 same day).		OS3	
First Year of System Support Option (24x7).		OS6	
SCSI cable 68 Pin Micro D Male 0.9M/36"		S09	
SCSI cable 68 Pin Micro D Male 1.8M/72"		S18	
Power Cord 0.9M/36" 230V		P09	
Standard US, 115VAC		P15	
Power Cord 1.8M/72" 230V		P18	
Standard US and some Foreign, 230VAC		P23	
• <b>e-100, Low Voltage Differential, Dual Port, with 1GB</b>	SSDEMYJZ		
Note: Price include first year of system support (8x5 next day on-site)			
First Year of System Support Option (8x5 same day).		OS3	
First Year of System Support Option (24x7).		OS6	
SCSI cable 68 Pin Micro D Male 0.9M/36"		S09	
SCSI cable 68 Pin Micro D Male 1.8M/72"		S18	
SCSI cable VHDCI LVD cable 0.9M/36"		V09	
SCSI cable VHDCI LVD cable 1.8M/72"		V18	
Power Cord 0.9M/36" 230V		P09	
Standard US, 115VAC		P15	
Power Cord 1.8M/72" 230V		P18	
Standard US and some Foreign, 230VAC		P23	
• <b>e-100, High Voltage Differential, Dual Port, with 2GB</b>	SSDEMYKZ		
Note: Price include first year of system support (8x5 next day on-site)			
First Year of System Support Option (8x5 same day).		OS3	
First Year of System Support Option (24x7).		OS6	
SCSI cable 68 Pin Micro D Male 0.9M/36"		S09	
SCSI cable 68 Pin Micro D Male 1.8M/72"		S18	
Power Cord 0.9M/36" 230V		P09	
Standard US, 115VAC		P15	
Power Cord 1.8M/72" 230V		P18	
Standard US and some Foreign, 230VAC		P23	
• <b>e-100, Low Voltage Differential, Dual Port, with 2GB</b>	SSDEMYLZ		
Note: Price include first year of system support (8x5 next day on-site)			
First Year of System Support Option (8x5 same day).		OS3	
First Year of System Support Option (24x7).		OS6	
SCSI cable 68 Pin Micro D Male 0.9M/36"		S09	
SCSI cable 68 Pin Micro D Male 1.8M/72"		S18	
SCSI cable VHDCI LVD cable 0.9M/36"		V09	
SCSI cable VHDCI LVD cable 1.8M/72"		V18	
Power Cord 0.9M/36" 230V		P09	
Standard US, 115VAC		P15	
Power Cord 1.8M/72" 230V		P18	
Standard US and some Foreign, 230VAC		P23	

## Subchapter 4.11—Media

Description	Product #	Opt #	Price
• 1.3 GB HP DDS DAT cartridge (60 meters) (box of five)	92283A		
• 2 GB HP DDS DAT cartridge (90 meters) (box of five)	92283B		
• 4 GB HP DDS DAT cartridge (120 meters) (box of five)	92300A		
• 12 GB HP DDS DAT cartridge (125-meters) (box of five)	C1517A		
• DAT drive cleaning cassette	92283K		
• Certified, 1/4-inch Tape Cartridges for the 9144A tape drive, 600-foot (box of five)	88140LC		
• Certified, 1/4-inch Tape Cartridges for the 9144A tape drive, 150-foot (box of five)	88140SC		
• Certified, 1/4-inch Tape Cartridges for the 9145A tape drive, 600-foot (box of five)	92245L		
• 1/2-inch Tape Reels (in seals, box of ten - 2400 ft.)	92150F		
• 40 GB HP DLT Tape IV Cartridge (1 pack)	C5141F		
• 15 GB HP DLT Tape III Cartridge (1 pack)	C5141A		
• DLT Tape Cleaning Cartridge	C5142A		
• 200GB HP Ultrium Tape Cartridge (1 pack)	C7971A		
• Ultrium Tape Cleaning Cartridge	C7979A		
• DLT1 Tape Cleaning Cartridge	C7998A		
• 9840 Data Cartridge (Ordering information telephone 1-800-905-8502)			
• 9840 Cleaning Cartridge (Ordering information telephone 1-800-905-8502)			
NOTE: Data cartridge labels can be ordered from Engineered Data Products (EDP). US sales line 1-800-432-1337, International 303 438 8375			

## Subchapter 4.12—Terminals

Description	Product #	Opt #	Price
<b>HP Terminal/Console</b>			
14-inch screen, 8-page memory, 80/132 column data, high resolution character, full overscan, VT320/220 compatible, white phosphor display only, EPC 104 keyboard			
• HP 700/96 with amber screen	C1099A		
<b>HP 700/60 ASCII/ANSI/PC Terminal</b>			
DEC VT320 compatible, Wyse 60 compatible, 80/132 column data, 14-inch full overscan display, 72 Hz refresh rate. PC-AT type keyboard (optional ANSI keyboard).			
• HP 700/60 with amber screen; PC-AT type keyboard	C1080A		
• HP 700/60 with green screen; PC-AT type keyboard	C1080G		
• HP 700/60 with soft-white screen; PC-AT type keyboard	C1080W		
<b>HP 700/70 Terminal</b>			
14-inch screen, 80/132 column data, DEC VT320 and Wyse 60 compatible; 50, 60 or 72 Hz refresh rate. PC-AT type keyboard (optional ANSI keyboard). Includes license-to-use SSSI FacetTerm software.			
• HP 700/70 with amber screen	C1093A		
• HP 700/70 with green screen	C1093G		
• HP 700/70 with white screen	C1093W		
• HP 700/70 media kit for HP 9000 – DAT. One required per site.	C1096A		
• Serial mouse	C3370A		
<b>HP 700/96 Terminal</b>			
14-inch screen, 8-page memory, 80/132 column data, high resolution character, full overscan, VT220 compatible.			
• HP 700/96 with amber screen	C1064A		
• HP 700/96 with green screen	C1064G		
• HP 700/96 with soft-white screen	C1064W		
<b>HP 700/98 High Performance Terminal</b>			
14-inch screen, 16-page memory, 80/132 column data, high resolution characters, full			

Description	Product #	Opt #	Price
overscan, forms cache, 11 edit checks, VT220 compatible.			
• HP 700/98 with amber screen	C1065A		
• HP 700/98 with green screen	C1065G		
• HP 700/98 with soft-white screen	C1065W		
• HP 700/60ES Terminal with soft-white screen. Has all HP 700/60 features plus compliance with Swedish MPR 1990:10 guidelines.	C1083W		
• HP 700/70ES – has all HP 700/70 features, plus compliance with Swedish MPR 1990:10 guidelines	C1094W		
• HP 700/96ES Terminal with Soft-White Screen. Has all HP 700/96 features plus compliance with Swedish MPR 1990:10 guidelines.	C1084W		
• HP 700/98ES Terminal with Soft-White Screen. Has all HP 700/98 features plus compliance with Swedish MPR 1990:10 guidelines.	C1085W		

### Subchapter 4.13—NCD Thin Clients/X-Terminals

NCD is a leading provider of integrated thin client hardware and software solutions that deliver high performance, easy-to-manage access to any UNIX and legacy application. The NCD Network Computer Products deliver the broadest support for today's web, UNIX and legacy application access requirements, with expandability to meet tomorrow's needs. Major features include: outstanding X11 performance, a reliable local Netscape Navigator browser and the fastest and most flexible ICA client in a thin client.

Description	Product #	US \$ Ref. Price
<b>NCD Network Computer X-Terminals</b>		
Base Units include:		
– HP 3 Year International Limited Hardware Warranty with unit replacement		
– Mouse		
– Power Cord		
Keyboard to be ordered separately		
Monitor to be ordered separately		
<b>N916, 16MB System Memory, 2 System Memory Slots, 10/100 BaseT Ethernet, Simultiple Color</b>		
US Localization Bundle (Power Cord)	NCD916UB	
European and International Bundle (Power Cord)	NCD916EB	
<b>N932, 32MB System Memory, 2 System Memory Slots (1 unused), 10/100 BaseT Ethernet, Simultiple Color</b>		
US Localization Bundle (Power Cord)	NCD932UB	
European and International Bundle (Power Cord)	NCD932EB	
<b>N948, 16MB System Memory, 2 System Memory Slots (1 unused), 10/100 BaseT Ethernet, Simultiple Color</b>		
US Localization Bundle (Power Cord)	NCD948UB	
European and International Bundle (Power Cord)	NCD948EB	
<b>N980, 80MB System Memory, 2 System Memory Slots (1 unused), 10/100 BaseT Ethernet, Simultiple Color</b>		
US Localization Bundle (Power Cord)	NCD980UB	
European and International Bundle (Power Cord)	NCD980EB	
<b>HP 3 Year International Limited Hardware warranty with unit Replacement MUST be ordered with every thin client</b>		
<b>Keyboards for the NCD900</b>		
US – US Localization	NCDKBDUS	
UK – UK Localization	NCDKBDUK	
France – French Localization	NCDKBDFR	
Germany – German Localization	NCDKBDGR	

Description	Product #	US \$ Ref. Price
Sweden/Finland – Swedish/Finnish Localization	NCDKBDSF	
Italy – Italian Localization	NCDKBDIT	
Canada – French Canadian Localization	NCDKBDFC	
<b>NCD900 Add-on Options</b>		
2 Power Cords – 1 UK / 1 European	NCDPWREU	
Single Australian Power Cord	NCDPWRAU	
16MB 100-Pin DIMM, 4 Bank	NCDNF016	
32MB 100-Pin DIMM, 4 Bank	NCDNF032	
64MB 100-Pin DIMM, 4 Bank	NCDNF064	
128MB 100-Pin DIMM, 4 Bank	NCDNF128	
8MB Flash Memory Card	NCDF08FM	
16MB Flash Memory Card	NCDF16FM	
10 Base2 Thinnet Ethernet	NCDN9FB2	
Parallel Port Card	NCDNCFPL	
Display Stand – for monitors over 17 inches in size	NCDNCFDS	
Floppy Disk Drive	NCDFDD01	
<b>NCD900 Software</b>		
NCBridge 4.0, CD-ROM, site license upgrade for customers who purchased previous versions of NCBridge	NCDB40CU	
NCBridge 4.0, CD-ROM, site license (1 License mandatory per site)	NCDB40CS	
NCBridge 4.0, CD-ROM, corporate license	NCDB40CC	
8 x 5 Phone-in assistance, LTU Updates, Media and Documentation Updates	NCDB40S1	
24 x 7 Phone-in assistance, LTU Updates, Media and Documentation Updates	NCDB40S2	

## Subchapter 4.14—Printers

Description	Product #	Opt #	Price
<b>HP 5000 Cut-Sheet Printers</b>			
<b>Printers and Accessories</b>			
• PostScript™ Level 2 for the D640	C5630A		
• D640 16 megabytes add-on memory	C5635A		
<b>Network Interfaces and Cables</b>			
• 3-meter parallel cable for use with D640	C2946A		
• 10-meter parallel cable for use with D640	C2947A		
<b>Supplies and Consumables</b>			
• D640 Toner Kit (8 bottles)	C5626A		
• D640 Drum Kit	C5629A		
• D640 Developer Kit (2 bottles)	C5632B		
• D640 Printer Pick Roller Kit	C5633A		
• D640 Fuser (120-127V)	C5627A		
• D640 Fuser (200-240V)	C5628A		
• D640 HCI Pick Roller	C5636B		
• C30/C30D/C40D Toner, 2 cartridges	C4006A		
• C30/C30D/C40D Toner, 8 cartridges	C4007A		
• C30/C30D Photoconductor	C4682A		
• C40D Photoconductor	C4683A		
• C30/C30D/C40D Fuser, 100-127 VAC	C4675A		
• C30/C30D/C40D Fuser, 200-240 VAC	C4676A		
• Cleaner Unit for C30/C30D/C40D	C4011A		
• C30/C30D Developer Unit	C4015A		
• C40D Developer Unit	C4677A		
<b>HP LineJet Printers and Accessories</b>			
• 500P line impact printer	C3201D		

Description	Product #	Opt #	Price
500P quick release cover		001	
500P LineJet Print Server and Printer Manager		002	
• 500Q line impact printer (quietized)	C3202D		
500Q LineJet Print Server and Printer Manager		002	
• 1000Q line impact printer (quietized)	C3204D		
• 1500Q line impact printer (quietized)	C3205D		
• 1500Q line impact printer (quietized with power stacker)	C5640D		
• QMS (Code V-II) graphics upgrade	C3216D		
• VGL/PGL graphics upgrade	C3217D		
<b>HP LineJet and LP Series Ribbons</b>			
• 60 yard text ribbons, box of 6 ribbons	C3207A		
• 100 yard text ribbons, box of 6 ribbons	C3208A		
• 60 yard bar code/OCR ribbons, box of 6 ribbons	C3209A		
• 100 yard bar code/OCR ribbons, box of 6 ribbons	C3210A		
• 60 yard security ribbons, box of 6 ribbons	C3212A		
<b>P405 Multi-Purpose Impact Printer</b>			
• Model P405 Multi-purpose impact printer (600 cps in draft mode, 150 cps in letter) Localized for Europe and AAA	PSYP405P		
• Model P405 Multi-purpose impact printer (600 cps in draft mode, 150 cps in letter) Localized for the Americas	PSYPAMER		
• P405 Printer stand (635x670x730 - W x D x H)	PSYP405S		
• Pack of 5 ribbons for the P405 (black)	PSYP405R		
• Replacement print head (Lifetime 350,000 pages)	PSYP405H		
• Automatic sheet feeder cassette version A (for normal paper - max 180)	PSYP405A		
• Automatic sheet feeder cassette version B (heavy paper and envelopes - max 50)	PSYP405B		
• Replacement platen assembly (rubber roller to transport paper)	PSYP405Y		
• Replacement pick up rolls	PSYP405L		
<b>C-Series, HP LineJet, and LP Series Network Interfaces and Cables</b>			
• 500P LineJet Print Server and Printer Manager	C3201D	002	
• 500Q LineJet Print Server and Printer Manager	C3202D	002	
• HP JetDirect EX Plus Ethernet/IEEE 802.3 Network Interface	J2591A		
• HP JetDirect 500X External Print Server 910/100Base-TX, 10Base 2	J3265A		
• HP JetDirect E500X External Print Server (Token Ring)	J3264A		
• HP JetDirect EX to LP Series parallel connect cable (3-meter)	C2951B		
• HP JetDirect EX to LP Series parallel connect cable (2-meter)	C2950A		
• 25-25 pin modem RS-232 Serial Cable	40234A		
<b>HP 5000 F-Series Printer Consumables</b>			
• Toner for HP 5000 Printers, 9 kg (estimated yield is 267,000 pages)	35192A		

## Subchapter 4.15—Cables and Accessories

Description	Product #	Opt#	Price
<b>Order a OD1 option for factory integration of cables or terminators. If factory integration is available, the OD1 option is listed below the cable product number.</b>			
<b>Low Density Bail Lock 50</b>			
• SCSI Cable 1m LDBL50 M/M Factory Integrated	92222B	OD1	
• SCSI Cable 3m LDBL50 M/F Ext Factory Integrated	C2900A	OD1	
<b>Low Density Bail Lock to High Density Thumb Screw</b>			
• SCSI Cable 1m HDT50/LDBL50 M/M Adptr Factory Integrated	K2296	OD1	

**Chapter 4**  
**Storage, Accessories, and Other Peripherals**



Description	Product #	Opt#	Price
• SCSI Cable 1m HDTS68/LDBL50 M/M Adptr Factory Integrated	C2915A	OD1	
<b>High Density Thumb Screw 50</b>			
• SCSI Cable 0.5m HDTS50 M/M Factory Integrated	C2955A	OD1	
• SCSI Cable 1m HDTS50 M/M	C2908A		
• SCSI Cable 2m HDTS50 M/M	C2957A		
• SCSI Cable 3m HDTC50 M/M Factory Integrated	C7521A	OD1	
• SCSI Cable 5m HDTS50 M/M Factory Integrated	C2958A	OD1	
<b>High Density Thumb Screw 68 to High Density Thumb Screw 50</b>			
• SCSI Cable 1m HDTS68/HDTS50 M/M Adptr Factory Integrated	C2961A	OD1	
• SCSI Cable 2m HDTS68/HDTS50 M/M Adptr	C2906A		
• SCSI Cable 5m HDTS68/HDTS50 M/M Adptr Factory Integrated	C2907A	OD1	
<b>Very High Density Thumb Screw 68 to High Density Thumb Screw 50</b>			
• SCSI Cable 1m VHDS68/HDTS50 M/M Adptr Factory Integrated	C2367A	OD1	
• SCSI Cable 2.5m VHDS68/HDTS50 M/M Adptr Factory Integrated	C2368A	OD1	
<b>High Density Thumb Screw 68</b>			
• SCSI Cable 0.5m HDTS68 M/M Factory Integrated	C6509A	OD1	
• SCSI Cable 0.9m HDTS68 M/M Factory Integrated	C2911A	OD1	
• SCSI Cable 2.5m HDTS68 M/M Factory Integrated	C2924A	OD1	
• SCSI Cable 5m HDTS68 M/M Factory Integrated	C6510A	OD1	
• SCSI Cable 10m HDTS68 M/M Factory Integrated	C2925A	OD1	
• SCSI Cable 20m HDTS68 M/M Factory Integrated	C2926A	OD1	
• SCSI Cable 0.5m HDTS68 M/M 90 ohm Factory Integrated	C2978A	OD1	
• SCSI Cable 1.5m HDTS68 M/M 90 ohm Factory Integrated	C2979A	OD1	
• SCSI Cable 0.5m HDTS68 M/M Multimd Factory Integrated	C2978B	OD1	
• SCSI Cable 1m HDTS68 M/M Multimd Factory Integrated	C2911C	OD1	
• SCSI Cable 1.5m HDTS68 M/M Multimd Factory Integrated	C2979B	OD1	
• SCSI Cable 2.5m HDTS68 M/M Multimd Factory Integrated	C2924C	OD1	
• SCSI Cable 5m HDTS68 M/M Multimd Factory Integrated	C7521A	OD1	
• SCSI Cable 10m HDTS68 M/M Multimd Factory Integrated	C7522A	OD1	
• SCSI Cable 20m HDTS68 M/M Multimd Factory Integrated	C7532A	OD1	
<b>Very High Density Thumb Screw 68</b>			
• SCSI Cable 0.5m VHDS68 M/M Multimd Factory Integrated	C2371A	OD1	



Description	Product #	Opt#	Price
• SCSI Cable 1m VHDS68 M/M Multimd Factory Integrated	C2372A	OD1	
• SCSI Cable 2m VHDS68 M/M Multimd Factory Integrated	C2373A	OD1	
• SCSI Cable 5m VHDS68 M/M Multimd Factory Integrated	C2374A	OD1	
• SCSI Cable 10m VHDS68 M/M Multimd	C2375A		
<b>Very High Density 68 to High Density 68</b>			
• SCSI Cable .5m VHDS68/HDTS68 M/F Multimd Ext Factory Integrated	C7523A	OD1	
• SCSI Cable 1m VHDS68/HDTS68 M/M Multimd Factory Integrated	C2361B	OD1	
• SCSI Cable 1.5m VHDS68/HDTS68 M/M Multimd Factory Integrated	C2362B	OD1	
• SCSI Cable 2m VHDS68/HDTS68 M/M Multimd Factory Integrated	C2365B	OD1	
• SCSI Cable 5m VHDS68/HDTS68 M/M Multimd Factory Integrated	C2363B	OD1	
<b>Special Cables</b>			
• SCSI Cable 0.5m HDTS68 90 ohm Flexible M/M Factory Integrated	C2981A	OD1	
<b>In-Line Terminated Cables</b>			
• SCSI Cable 0.5m HDTS68 HVD ILT M/F Ext Factory Integrated	C2980A	OD1	
• SCSI Cable 0.5m VHDS68/HDTS68 HVD ILT M/F Ext	C7519A		
• SCSI Cable 5m VHDS68/HDTS68 HVD ILT M/M Factory Integrated	C5766A	OD1	
• SCSI Cable 10m VHDS68/HDTS68 HVD ILT M/M Factory Integrated	C5767A	OD1	
• SCSI Cable 2m VHDS68/HDTS68 LVD/SE ILT M/M Factory Integrated	C7541A	OD1	
• SCSI Cable 5m VHDS68/HDTS68 LVD/SE ILT M/M Factory Integrated	C7520A	OD1	
<b>Fiber optic SCSI extender (supported on printers only)</b>			
• Add 50m Fiber-optic cable		AFB	
• Add 100m Fiber-optic cable		AFD	
<b>SCSI Terminators</b>			
• SCSI Terminator SE LDBL50 Factory Integrated	K2291	OD1	
• SCSI Terminator SE HDTS50	C2904A		
• SCSI Terminator HVD HDTS50 Factory Integrated	C2905A	OD1	
• SCSI Terminator Active SE HDTS68 Factory Integrated	C2972A	OD1	
• SCSI Terminator Active SE HDTS68 Low Profile Factory Integrated	C6511A	OD1	
• SCSI Terminator LVD/SE HDTS68 Multimd Factory Integrated	C2364A	OD1	
• SCSI Terminator HVD VHDS68 Factory Integrated	C7528A	OD1	
• SCSI Terminator LVD/SE VHDS68 Multimd Factory Integrated	C2370A	OD1	

NOTE: When ordering SCSI Adapters A5149A, A5150A, A5159A, or A5838A, terminators are NOT included. Please order the appropriate terminator(s) for the final device(s) in your SCSI chain.

## Subchapter 4.16—Networking Cables

Description	Product #	Opt #	Price
Order a OD1 option for factory integration of cables or terminators. If factory integration is available, the OD1 option is listed below the cable product number.			
<b>CAT 5e cables</b>			
<ul style="list-style-type: none"> <li>• CAT 5e Cable 4 ft RJ 45 M/M</li> <li>• Factory Integrated</li> <li>• CAT 5e Cable 7 ft RJ 45 M/M</li> <li>• Factory Integrated</li> <li>• CAT 5e Cable 14 ft RJ 45 M/M</li> <li>• Factory Integrated</li> <li>• CAT 5e Cable 25 ft RJ 45 M/M</li> <li>• Factory Integrated</li> <li>• CAT 5e Cable 50 ft RJ 45 M/M</li> <li>• Factory Integrated</li> <li>• CAT 5e C/O Cable 7 ft RJ 45 M/M</li> <li>• Factory Integrated</li> <li>• CAT 5e C/O Cable 7 ft RJ 45 M/M</li> <li>• Factory Integrated</li> </ul>	<p>C7533A</p> <p>C7535A</p> <p>C7536A</p> <p>C7537A</p> <p>C7542A</p> <p>C7539A</p> <p>C7542A</p>	<p>OD1</p> <p>OD1</p> <p>OD1</p> <p>OD1</p> <p>OD1</p> <p>OD1</p> <p>OD1</p>	
<b>ThinLAN Cables and Accessories</b>			
ThinLAN Coax Cable (with BNC connectors installed):			
<ul style="list-style-type: none"> <li>• 1 m coax cable</li> <li>• 2 m coax cable</li> <li>• 4 m coax cable</li> <li>• 8 m coax cable</li> <li>• 16 m coax cable</li> <li>• 32 m coax cable</li> <li>• 128 m coax cable</li> </ul>	<p>92227A</p> <p>92227B</p> <p>92227C</p> <p>92227D</p> <p>92227E</p> <p>92227F</p> <p>92227H</p>		
<b>ThinLAN Accessories</b>			
<ul style="list-style-type: none"> <li>• BNC "T" Connector</li> <li>• ThinLAN Terminator Pair</li> <li>• Backbone LAN MAU and Tap, ThickLAN</li> </ul>	<p>92227N</p> <p>92227P</p> <p>30241A</p>		
<b>Backbone LAN AUI Cables (with connectors attached) for use with 30241A:</b>			
<ul style="list-style-type: none"> <li>• 6 m FEP AUI Cable</li> <li>• 12 m FEP AUI Cable</li> <li>• 48 m FEP AUI Cable</li> <li>• 6 m PVC (11) AUI Cable</li> <li>• 12 m PVC AUI Cable</li> <li>• 48 m PVC AUI Cable</li> </ul>	<p>92254A</p> <p>92254B</p> <p>92254D</p> <p>92254E</p> <p>92254F</p> <p>92254H</p>		
<b>Backbone LAN Coax Cables (including connectors and terminators) ThickLAN</b>			
<ul style="list-style-type: none"> <li>• 500 m FEP without terminators attached</li> <li>• 500 m PVC without terminators attached</li> </ul>	<p>92253D</p> <p>92253H</p>		
<b>Backbone LAN Coax Cable Tools for attaching connectors (order once):</b>			
<ul style="list-style-type: none"> <li>• N-Connectors, male, package of four</li> <li>• Barrel N-Connectors, female, and insulators, package of two</li> <li>• One grounding terminator and one floating point terminator with insulator</li> </ul>	<p>92253J</p> <p>92253K</p> <p>92253L</p>		
<b>For information on adapters, bridges, hubs, routers, switches, and transceivers, refer to Chapter 7, Networking and Communications</b>			



## Subchapter 4.17—Fibre Optic Cables

	Description	Product #	Opt #	Price
	Order a OD1 option for factory integration of cables or terminators. If factory integration is available, the OD1 option is listed below the cable product number.			
	Fibre Optic cables			
	SC/SC Connector			
•	Fibre Optic Cable 2m SC Duplex 50/125 M/M Factory Integrated	A3583A	OD1	
•	Fibre Optic Cable 16m SC Duplex 50/125 M/M	A3531A		
•	Fibre Optic Cable 50m SC Duplex 50/125 M/M Factory Integrated	A3735A	OD1	
•	Fibre Optic Cable 100m SC Duplex 50/125 M/M Factory Integrated	A3736A	OD1	
	LC/LC Connector			
•	Fibre Optic Cable 2m LC Duplex 50/125 M/M Factory Integrated	C7524A	OD1	
•	Fibre Optic Cable 16m LC Duplex 50/125 M/M Factory Integrated	C7525A	OD1	
•	Fibre Optic Cable 50m LC Duplex 50/125 M/M	C7526A		
•	Fibre Optic Cable 200m LC Duplex 50/125 M/M	C7527A		
	LC/SC Adapter and Extenders			
•	Fibre Optic Cable LC/SC 2m Duplex 50/125 M/M Factory Integrated	C7529A	OD1	
•	Fibre Optic Cable LC/SC 16m Duplex 50/125 M/M Factory Integrated	C7530A	OD1	
•	Fibre Optic SC F/F Coupler Factory Integrated	C7534A	OD1	
•	Fibre Optic Cable Kit: Includes a 2m LC/SC Fibre Optic Cable and a Fibre Optic SC F/F Coupler Factory Integrated	C7540A	OD1	

## HP-UX Operating Environment for Itanium Processor Family (IPF)

### HP-UX 11i for Itanium Processor Family (IPF) Systems

	Description	Product #	Opt #	Price
•	<b>HP HP-UX 11i IPF Operating Environment Per Processor License LTU</b>	B9429AC		
	One license required per active CPU.			
•	<b>HP-UX 11i Operating Environment Media for IPF Systems</b>	B9106AA		
	DVD Media Factory Integration (Preloads HP-UX 11i, online diagnostics, gigabit ethernet, Fibre Channel network drivers) Note : Configured for English localization, cold install required for language reconfiguration. English (Required) HP-UX 11i Version 1.5 (Note: HP-UX 11i Version 1.5 Operating Environment ships as HP-UX 11i Version 1.5 operating system media and Application Software media, also includes Instant information CD)		AJR OD1	
			ABA UME	
•	<b>Application Software DVD for HP-UX 11i Version 1.5</b>	B9111AA		
	The Application Software DVD kit is included with purchase of B9106AA DVD media. The HP-UX Application Software DVD kit is for users who already have the HP-UX operating system and need only the newest version of the Application Software DVD.			
•	<b>HP-UX 11i Version 1.5 Instant Information CD</b>	B3921HA		
	One copy included with HP-UX 11i Operating Environment Media kit (B9106AA), hardcopy not available		OBC	

## HP-UX Operating Environment for PA-RISC

### HP-UX Product Structure Overview

Notes:

- Pricing in these tables is subject to change. Always consult CPL to get the latest prices.
- Tier-Based Licenses are used for non-SuperDome systems
- Per-Processor Licenses are used for SuperDome systems
- “Purchase with System” means the Operating Environment license is purchased either in combination with a chassis, in combination with an add-on processor, or in combination with an iCOD processor activation
- “Purchase Separately from System” is used in any situation where the customer does not have the correct right to use the latest HP-UX version. An example is a customer having an older HP-UX version and no support contract.
- At least one license product is required per hp server
- Media/Instant Ignition and documentation products are optional, depending on customer need

	Description	11i	11.0	10.20	Worldwide Reference Price
•	<b>Licenses</b>				
	HP-UX Operating Environment Tier-Based License-to-Use, purchase with system	B9088AA	B9088AA	B9088AA	
	Tier 1	AH0	AH0	AH0	
	Tier 2	AE5	AE5	AE5	
	Tier 3	AEP	AEP	AEP	
	HP-UX 11i Operating Environment Per-Processor License-to-Use, purchase with system	B9088AC			
	HP-UX 11i Operating Environment Tier-Based License-to-Use, purchase separately from system	B9089AA	B9089AA	B9089AA	
	Tier 1	AH0	AH0	AH0	

**Chapter 5**  
**How to Order Software**



Description	11i	11.0	10.20	Worldwide Reference Price
Tier 2	AE5	AE5	AE5	
Tier 3	AEP	AEP	AEP	
Upgrade from Tier 1	OGR	OGR	OGR	
Upgrade from Tier 2	OC8	OC8	OC8	
Upgrade from Tier 3	B52	B52	B52	
HP-UX 11i Enterprise Operating Environment Per-Processor License, purchase separately from system	B9089AC			
HP-UX 11i Enterprise OE Tier-Based License-to-Use, purchase with system	B9090AA			
Tier 1	AH0			
Tier 2	AE5			
Tier 3	AEP			
Upgrade from Tier 1	OGR			
Upgrade from Tier 2	OC8			
Upgrade from Tier 3	B52			
HP-UX 11i Enterprise OE Per-Processor License-to-Use, purchase with system	B9090AC			
HP-UX 11i Enterprise OE Tier-based License-to-Use, purchase separately from system	B9091AA			
Tier 1	AH0			
Tier 2	AE5			
Tier 3	AEP			
Upgrade from Tier 1	OGR			
Upgrade from Tier 2	OC8			
Upgrade from Tier 3	B52			
HP-UX 11i Enterprise OE Per-Processor License-to-Use, purchase separately from system	B9091AC			
HP-UX 11i Mission-Critical OE Tier-Based License-to-Use, purchase with system	B9092AA			
Tier 1	AH0			
Tier 2	AE5			
Tier 3	AEP			
Upgrade from Tier 1	OGR			
Upgrade from Tier 2	OC8			
Upgrade from Tier 3	B52			
HP-UX Mission-Critical OE Per-Processor License-to-Use, purchase with system	B9092AC			
HP-UX Mission-Critical OE Tier-Based License-to-Use, purchase separately from system	B9093AA			
Tier 1	AH0			
Tier 2	AE5			
Tier 3	AEP			
Upgrade from Tier 1	OGR			
Upgrade from Tier 2	OC8			
Upgrade from Tier 3	B52			
HP-UX Mission-Critical OE Per-Processor License-to-Use, purchase separately from system	B9093AC			
HP-UX Mission-Critical OE Tier-Based License Upgrade from Enterprise OE	B9094AA			
Tier 1	AH0			
Tier 2	AE5			
Tier 3	AEP			
Upgrade from Tier 1	OGR			
Upgrade from Tier 2	OC8			
Upgrade from Tier 3	B52			
HP-UX Mission-Critical OE Per-Processor License Upgrade from Enterprise OE	B9094AC			
HP-UX Technical Computing Operating Environment Tier-Based License-to-Use, purchase with system	B6822AA			
Tier 1	AH0			
Tier 2	AE5			
Tier 3	AEP			
HP-UX Technical Computing Operating Environment Per-Processor License-to-Use, purchase with system	B6822AC			
HP-UX Technical Computing Operating Environment Tier-Based License-to-Use, purchase separately from system	B6823AA			

Description	11i	11.0	10.20	Worldwide Reference Price
Tier 1	AH0			
Tier 2	AE5			
Tier 3	AEP			
Upgrade from Tier 1	OGR			
Upgrade from Tier 2	OC8			
Upgrade from Tier 3	B52			
HP-UX Technical Computing Operating Environment Per-Processor License-to-Use, purchase separately from system	B6823AC			
<b>Media/Instant Ignition</b>				
<b>HP-UX Operating Environment Media</b>	B3920EA	B3920EA	B3920EA	
HP-UX 11i	UM9			
HP-UX 11.0		UM4		
HP-UX 10.20			APZ	
Software on CD-ROM	AAF	AAF	AAF	
Instant Ignition	OD1	OD1	OD1	
English	ABA	ABA	ABA	
German	ABD	ABD	ABD	
Spanish	ABE	ABE	ABE	
French	ABF	ABF	ABF	
Japanese	ABJ	ABJ	ABJ	
Swedish	ABS	ABS	ABS	
Italian	ABZ	ABZ	ABZ	
Traditional Chinese	AB0	AB0	AB0	
Korean	AB1	AB1	AB1	
Simplified Chinese	AB2	AB2	AB2	
<b>HP-UX Enterprise Operating Environment Media and Instant Ignition</b>	B7993AA			
HP-UX 11i	UM9			
Software on CD-ROM	AAF			
Instant Ignition	OD1			
English	ABA			
German	ABD			
Spanish	ABE			
French	ABF			
Japanese	ABJ			
Swedish	ABS			
Italian	ABZ			
Traditional Chinese	AB0			
Korean	AB1			
Simplified Chinese	AB2			
<b>HP-UX Mission-Critical Operating Environment Media and Instant Ignition</b>	B7994AA			
HP-UX 11i	UM9			
Software on CD-ROM	AAF			
Instant Ignition	OD1			
English	ABA			
German	ABD			
Spanish	ABE			
French	ABF			
Japanese	ABJ			
Swedish	ABS			
Italian	ABZ			
Traditional Chinese	AB0			
Korean	AB1			
Simplified Chinese	AB2			
<b>Technical Computing Operating Environment Media and Instant Ignition</b>	B6821AA			
HP-UX 11i	UM9			
Software on CD-ROM	AAF			

	Description	11i	11.0	10.20	Worldwide Reference Price
	Instant Ignition	OD1			
	English	ABA			
	German	ABD			
	Spanish	ABE			
	French	ABF			
	Japanese	ABJ			
	Swedish	ABS			
	Italian	ABZ			
	Traditional Chinese	ABO			
	Korean	AB1			
	Simplified Chinese	AB2			
•	<b>Documentation</b>	B3921GA	B3921EA	B3921CA	
	General Usage			OBD	
	Advanced Usage		OBG	OBG	
	System Administration		OBE	OBE	
	Programming Reference		OBF	OBF	
	HP DCE Documentation		AVC	AVC	
	CDE General Usage		AVL	AVL	
	Documentation on CD-ROM		OBC	UAT	
•	<b>Documentation - Japanese</b>	B3921GJ	B3921EJ	B3921CJ	
	Japanese and English manuals on CD-ROM		OBC	OBC	
	General Usage			OBD	
	System Administration		OBE	OBE	
	Japanese only			ABJ	
	CDE General Usage		AVL	AVL	
	Advanced Usage				
	Programming Reference				
•	<b>Documentation - French</b>	B3921GF	B3921EF	B3921CF	
	French only		ABF	ABF	
	General Usage			OBD	
	System Administration		OBE	OBE	
	CDE General Usage		AVL	AVL	
	Advanced Usage				
	Programming Reference				
•	<b>Documentation - German</b>	B3921GD	B3921ED	B3921CD	
	German only			ABD	
	General Usage			OBD	
	System Administration		OBE	OBE	
	CDE General Usage		AVL	AVL	



			HP-UX 10.20	HP-UX 10.20 Hardware Extns 2.0	HP-UX 11.0	HP-UX 11.0 Extension Packs	HP-UX 11i
HP-UX Introduction date			Aug 96	Apr 98	Nov 97	CY 1998	Dec 2000
HP-UX Discontinuance Date (end of sales)			6/30/02	6/30/03	TBD	TBD	TBD
HP-UX Obsolescence Date (end of support)			6/30/03	6/30/03	TBD	TBD	TBD
System	Processor	Introduced					
865		Oct 1990					
890		Oct 1992					
822S		Jun 1990					
832S		Jun 1990					
840S		Nov 1986					
842S		Nov 1990					
850S		Nov 1987					
852S							
855S		Mar 1989					
860S		Oct 1990					
870S		Oct 1991					
8x7S					32	32	32
A180	PA-7100LC	Sep 1998					
A180C	PA-7100LC	Sep 1998					
D200	PA-7100LC	Jan 1996					
D210/D310	PA-7100LC	Jan 1996					
D220/D320	PA-7300LC	Jan 1997			32	32	32
D230/D330	PA-7300LC	Jan 1997			32	32	32
D250/D350	PA-7200	Jan 1996			32	32	32
D260/D360	PA-7200	May 1996			32	32	32
D270/D370	PA-8000	Nov 1996			32	32 and 64	32 and 64
D280/D380	PA-8000	Sep 1997			32	32 and 64	32 and 64
D390	PA-8200	Sep 1998				EP 9808	32 and 64
E-Class	PA-7100LC				32	32	
F-Class	PA-7100	Jan 1993			32	32	
G,H,I	PA-7100	Aug 1991			32	32	
Kx00	PA-7200	Mar 1995			32	32	32
Kx10	PA-7200	Sep 1995			32	32	32
Kx20	PA-7200	Mar 1996			32	32	32
Kx50	PA-8000	Aug 1996			32 and 64	32 and 64	32 and 64
Kx60	PA-8000	Aug 1996			32 and 64	32 and 64	32 and 64
Kx70	PA-8200	May 1997			32 and 64	32 and 64	32 and 64
K380, K580	PA-8200	Feb 1998				32 and 64	32 and 64
N4000	PA-8500	May 1999				64 EP 990P	64
R380	PA-8200	Sep 1998				EP 9808	32 and 64
R390	PA-8200	Sep 1998				EP 9808	32 and 64
T500	PA-7100	Dec 1993			32	32	32
T520	PA-7150	Sep 1995			32	32	32
T600	PA-8000	Jul 1997			32 and 64	32 and 64	32 and 64
V2200	PA-8200	Nov 1997			64	64	64
V2250	PA-8200	H1 1998			64	64	64
V2500	PA-8500	Dec 1998			64	64	64
EPS 21	PA-7200	Q2 1996			32	32	32
EPS 22	PA-8000	Nov 1996			32	32 and 64	32 and 64

HP-UX			HP-UX 10.20	HP-UX 10.20 Hardware Extns 2.0	HP-UX 11.0	HP-UX 11.0 Extension Packs	HP-UX 11i
Introduction date			Aug 96	Apr 98	Nov 97	CY 1998	Dec 2000
EPS 23	PA-8200	Jul 1997			32	32 and 64	32 and 64
EPS D					*	*	*
EPS K					*	*	*
EPS T					*	*	*
EPS V					64	64	64

**Legend**

	Invalid HW/OS combination
	Supported HW/OS combination
*	Depends on composition of EPS Solutions

**Notes**

HP-UX 11 is the first version to support 64-bit operation; prior versions are 32-bit only.  
 32 and 64 means a 64-bit PA-8x00-based system can run either 32- or 64-bit versions of HP-UX 11.x, and can run 32- and 64-bit applications.  
 64 means runs on 64-bit PA-8x00 systems only, but can run 32- and 64-bit applications.

**The sales and support lives of HP-UX are as follows:**

	Introduced	Discontinued End of Sales	Obsoleted End of Support
11i	Dec-00	TBD	TBD
11.0	Nov-97	TBD	TBD
10.30	Aug-97	6/1/98	6/1/99
10.20	Aug-96	6/30/02	6/30/03
10.10	Feb-96	6/30/99	6/30/03
10.01	Jul-95	3/31/00	6/30/03

TBD means the date has yet to be determined

**Overview of HP-UX Product Structure**

**Tier Structure**

Use these tier selections when purchasing software for hp servers.

Tier Option	1 AHO	2 AE5	3 AEP
Model Number	A-Class	N-Class	V-Class
	L-Class	H-Class	T500
	D-Class	I-Class	T520
	E-Class	825	890/1, 890/2
	F-Class	K400	890/3, 890/4
	G-Class	K410	850
	K100	K420	855
	K200	K570	860
	K210	832	865
	K220	847	870/100
	K370	857	870/200

Tier Option	1 AH0	2 AE5	3 AEP
	807	635	870/300
	808	835	870/400
	817	842	
	815	867	
	822	877	
	827	645	
	837	840	
		845	
		852	
		887	
		897	

Note: SuperDome software uses per-processor licensing and does not use tier-based licensing; therefore it is not in the tier selection table.

## HP-UX Operating Environment Features

11i, 11.0 and 10.20 are the HP-UX operating system versions currently available on hp servers. The table below highlights new functionality in the currently selling versions of HP-UX.

HP-UX 11i - option UM9 denotes HP-UX, version 11i	HP-UX 11.0 - option UM4 denotes HP-UX, version 11.0	HP-UX 10.20 - option APZ denotes HP-UX, version 10.20
HP-UX 11i has the following features: <ul style="list-style-type: none"> <li>• Supports Superdome hardware</li> <li>• Supports hardware partitions</li> <li>• Fabric login fully implemented</li> <li>• Journaled Filesystem (JFS) 3.3</li> <li>• HP-UX 11i Operating Environment includes many Internet-focused applications</li> <li>• New Enterprise, Mission-Critical and Technical Computing Operating Environment packaging</li> <li>• Guardian Service Processor (GSP)</li> <li>• NFS over TCP/IP support</li> <li>• New Ignite-UX features</li> <li>• Complete binary compatibility to HP-UX 11.0</li> </ul>	HP-UX 11.0 has the following features: <ul style="list-style-type: none"> <li>• Full 64-bit computing (32-bit default)</li> <li>• Performance Optimized Page Sizing (POPS)</li> <li>• Ignite/UX</li> <li>• JFS 3.1 (default file system)</li> <li>• Supports older 32-bit PA-7x00 systems as well as 64-bit PA-8x00 systems.</li> <li>• 32-bit and 64-bit applications can run simultaneously</li> <li>• Kernel threads</li> <li>• NFS Protocol Version 3, NIS+</li> </ul>	HP-UX 10.20 has the following features: <ul style="list-style-type: none"> <li>• Full support for 64-bit PA-8000-based servers</li> <li>• Support for 6-way K370, K570</li> <li>• Large file size (128 GB)</li> <li>• Support for up to 2 billion user IDs</li> <li>• Distributed print system, a standards-based enterprise-level print manager</li> <li>• 10.20 TFC/HWE supports T600/Fibre Channel</li> <li>• CDE default windowing environment</li> </ul>

## Positioning the Versions of HP-UX

11i is currently the key HP-UX strategic platform for the hp server line. It has been created, engineered and packaged for customers who are doing Internet-critical computing. HP-UX 11i includes a large number of new features such as highly increased manageability, scalability, high-availability and new system solution-focused product bundling.

HP-UX 11i is the recommended version for customers who do not have a compelling reason to use one of the legacy HP-UX versions.

- HP-UX 11.0 is an important legacy HP-UX version still used by many customers.
- HP-UX 10.20 an older legacy HP-UX version still used by a small set of customers. Please note that 10.20 is planned for discontinuance as of June 30, 2002.



The sections below show details of the different HP-UX releases.

### HP-UX 11i Operating Environments

HP-UX 11i began shipping in December of 2000. HP-UX 11i includes many Internet-focused features as well as new packaging that incorporates operating environments and per-processor licensing. Each Operating Environment consists of basic HP-UX kernel, commands and management utilities, as well as numerous layered software products. Many of these core and layered products are provided free with HP-UX when it is purchased in combination with an hp server. The Enterprise and Mission-Critical Operating Environments are provided at extra cost and contain value-added layered software products.

This table shows the layered contents of each of the HP-UX 11i Operating Environments, broken down by functionality type. To read this table you will need to know the following items:

Term	Explanation
HP Product Identifier	The HP product number used to identify a software product on the HP-UX media. For extra-cost products, this identifier is also used to purchase the product from the HP Corporate Price List.
11i OE	The HP-UX 11i Operating Environment. This is the basic operating Environment that is supplied free with hp servers.
Ent OE	HP-UX Enterprise Operating Environment
MCOE	HP-UX 11i Mission-Critical Operating Environment
Base HP-UX Functionality	HP-UX Kernel, commands and utilities
Auxiliary Utilities for HP-UX	Separately identified and packaged HP-UX management utilities
Always-installed network drivers	Network card drivers that are installed with every standard OE system load
Customer-selectable software in 11i OEs	During standard installation, the customer is presented with the choice of loading these products
Default loaded software in 11i OEs	All Operating Environments load these products by default
Single-system Hi-Availability products	Extra-cost layered software products whose emphasis is on single-system (i.e., non-clustered) high availability. These products are contained in Enterprise and Mission-Critical Operating Environments and each can be purchased standalone.
Multi-system Hi-Availability products	Extra-cost layered software products whose emphasis is on clustered hi-availability. These products are only contained in Mission-Critical Operating Environment, though each can also be purchased standalone.
Other free server products	Products that are shipped unlocked on the HP-UX Application CDs and free to any HP-UX customer. Some of these products are also packaged within the Operating Environments.

### HP-UX Operating Environment Contents

Software Product	HP Identifier	11i OE	Ent OE	MCOE	TCOE
<b>Base HP-UX Functionality</b>					
Base 64-bit HP-UX 11i	HPUXBase64	x	x	x	x
Base 32-bit HP-UX 11i	HPUXBase32	x	x	x	x
<b>Auxiliary Utilities for HP-UX</b>					
System Configuration Repository (SCR) and DMI	B6816AA	x	x	x	x
Event Management System (EMS) Framework	B7609BA	x	x	x	x
ObAM5 (used by SAM, SD and other utilities)	B6817AA	x	x	x	x
Partition Manager	B6826AA	x	x	x	x
Software Distributor (SD)	SWDIST	x	x	x	x
<b>Always-Installed Networking Drivers</b>					
Gigabit Ethernet for PCI and HSC	GigEther-00	x	x	x	x
FDDI for PCI	FDDI-00	x	x	x	x
FibreChannel for PCI (Tachlite)	FibrChaln-00	x	x	x	x
SCSI RAID for PCI	RAID-00	x	x	x	x
<b>Customer-Selectable Software in 11i OEs</b>					
100 Base-T networking for for HP-PB and EISA	100BaseT-00	x	x	x	x
ATM networking driver for PCI	ATM-00	x	x	x	x

Software Product	HP Identifier	11i OE	Ent OE	MCOE	TCOE
ATM networking driver for HSC/EISA	ATM-01	x	x	x	x
FDDI driver for HSC	FDDI-01	x	x	x	x
FDDI driver for HP-PB	FDDI-02	x	x	x	x
FDDI driver for EISA	FDDI-03	x	x	x	x
HyperFabric driver for PCI and HSC	HyprFabr-00	x	x	x	x
Multiplexer driver for PCI	TermIO-00	x	x	x	x
Multiplexer driver for EISA	TermIO-01	x	x	x	x
Token Ring driver for PCI	TokenRing-00	x	x	x	x
Token Ring driver for HP-PB	TokenRing-01	x	x	x	x
Token Ring driver for EISA	TokenRing-02	x	x	x	x
HP-UX Install Utilities (Ignite-UX)	B5725AA	x	x	x	x
Instant Capacity on Demand (iCOD) utilities	B9073AA	x	x	x	x
Online Diagnostics	OnlineDiag	x	x	x	x
Netscape Directory Server	J4258BA	x	x	x	x
WebQoS Peak Package Edition	J274AA	x	x	x	
<b>Default-loaded Software in 11i OEs</b>					
HP Apache-based Web Server	B9415AA	x	x	x	x
CIFS/9000 Server	B8725AA	x	x	x	x
CIFS/9000 Client	B8724AA	x	x	x	x
Java JPI	B9098AA	x	x	x	x
Java Runtime Environment version 1.2	B8111AA	x	x	x	x
Netscape Communicator 4.75	B8342AA	x	x	x	x
PAM Kerberos	J5849AA	x	x	x	x
ServiceControl Manager	B8339BA	x	x	x	x
<b>Single-System High-Availability Products (extra-cost)</b>					
EMS High-Availability Monitors	B5736DA		x	x	
MirrorDisk/UX	B2491BA		x	x	
OnlineJFS 3.3	B3929CA		x	x	
OpenView GlancePlus Pack (English)	B3701AA		x	x	
OpenView GlancePlus Pack (Japanese)	B3701AJ		x	x	
Process Resource Manager (PRM)	B3835DA		x	x	
<b>Multi-System High-Availability and Security Products (extra-cost)</b>					
Enterprise Cluster Manager (ECM) Toolkit	B5139DA			x	
MC/ServiceGuard	B3935DA			x	
MC/ServiceGuard NFS Toolkit	B5140BA			x	
HP-UX Workload Manager (WLM)	B8843CA			x	
<b>Technical Computing Software</b>					
Visualize Conference	B7580AA				x
Message Passing Interface (MPI)	B6060BA				x
Multiprocessing Libraries (MLIB)	B6061AA				x
Java 3D	B8752AA				x
FirstSpace VRML Viewer	B5304AA				x
3D Graphics	B6268AA				x
<b>Free Security Products in Application CD Kit (x indicates product is automatically loaded with the OE)</b>					
HP Praesidium Intrusion Detection System IDS/9000	J5083AA				
PAM-Kerberos Version 1.0	J5849AA	x	x	x	x
Security Patch Check for HP-UX 11.x	B6834AA				
HP Praesidium IPFilter	B9901AA				
<b>Free Server Software Products in Application CD Kit (x indicates product is automatically loaded with the OE)</b>					
HP OpenView ITO Special Edition	B4265DA				
HP-UX 11.x Software Transition Kit	B4580AA				
System Configuration Repository and DMI	B6816AA	x	x	x	x
ObAM Runtime Environment	B6817AA	x	x	x	x
HP-UX Partition Manager	B6826AA	x	x	x	x
Event Monitoring Services (EMS)	B7609BA	x	x	x	x
HP Process Resource Manager Software Libraries	B7697BA	x	x	x	x
Base VERITAS Volume Manager for HP-UX	B7961AA				
HP Cluster Object Manager	B8324BA				

Software Product	HP Identifier	11i OE	Ent OE	MCOE	TCOE
HP-UX ServiceControl Manager	B8339BA	x	x	x	x
Netscape Communicator	B8342AA	x	x	x	x
HP-PB 800 ATM/155 Link software for J2804A	J2804A				
HP-PB 800 ATM/155 Link software 6.0	J2805BA				

## HP-UX 11i Frequently Asked Questions

### Q. What are the major new features of 11i over 11.0?

A. HP-UX 11i includes a number of new features over HP-UX 11.0. These include enhanced symmetric multiprocessing scalability to 64 processors, new hi-availability features such as VERITAS Volume Manager, Online Addition and Replacement (OLAR) of I/O cards and dynamic kernel parameters that can be easily changed on the fly without system reboot. There are a number of new manageability features such as Partition Manager for SuperDome, which provides complete configuration and control of the partitions in SuperDome complexes, and Workload Manager, which provides goal-based system resource allocation.

Additionally, HP-UX 11i is packaged into extremely robust, attractively-priced, highly functional and targeted Operating Environments, including the 11i Operating Environment, Enterprise Operating Environment, Mission-Critical Operating Environment and Technical Computing Operating Environment. Operating Environments provide many benefits, including solution-level system testing, greatly eased installation and maintenance, and very simplified support structures.

### Q. Is HP-UX 11i binary compatible with HP-UX 11.0?

A. HP-UX 11i is completely binary compatible with HP-UX 11.0 at the application level. All non-kernel 11.0 binaries will run unchanged on HP-UX 11i. As with most HP-UX releases, kernel-level software, such as drivers for I/O cards, are re-delivered on HP-UX 11i.

### Q. Is HP-UX 11i available in both 32-bit and 64-bit versions?

A. Yes, HP-UX 11i is available in both 32- and 64-bit versions. All current hp servers are supported only with the 64-bit version. The 32-bit version is necessary for older systems, including all hp servers with PA-7xxx processors. All systems with PA-8000 or higher processors are capable of running 64-bit HP-UX.

### Q. On which servers is HP-UX 11i supported?

A. Of current hp servers, HP-UX 11i is supported on all A-, L-, N-, and V-class systems, as well as SuperDome. Of legacy servers, HP-UX 11i is supported on all D-Class, K-Class and R-class and T-class systems.

### Q. HP-UX licensing changed significantly at the release of 11i. What's different?

A. HP-UX had formerly been licensed using a base 2-user license with multiuser licenses (8, 16, 32, 64-user, etc.) available at additional cost. These multiuser licenses are no longer used. As of September 1, 2000, all copies of HP-UX 10.20, 11.0 and 11i are supplied with an unlimited user license. This means that HP-UX is no longer licensed per user.

HP-UX is now licensed by Operating Environment type. Each Operating Environment is licensed per-tier for non-SuperDome servers and per-processor for SuperDome.

**Q. What are the licensing rules to move from a lower Operating Environment to a higher one on SuperDome or other system with partitions?**

Partitions are very flexible and allow CPUs to be moved between them to adjust to changing customer needs. It is completely possible and supported to have Enterprise HP-UX and Mission-Critical HP-UX running in the same SuperDome complex. There will be cases where customers want to, for example, take CPUs from a partition running a lower-level Operating Environment to a partition running a higher-level one.

In these cases, for each processor the customer must be licensed to run the highest level of Operating Environment that will be run on that processor at any time. For example, if a processor will reside in a Mission-Critical HP-UX partition at any time, then that processor must be licensed for Mission-Critical HP-UX even if it spends time running in a partition that has Enterprise HP-UX.

In the event the processor is returned to a partition that runs a lower-level Operating Environment, then the customer has the license for the higher-level one in their asset base. In our example, if a processor is licensed for Mission-Critical HP-UX but running in an Enterprise HP-UX partition, then the customer can put it back into a partition running Mission-Critical HP-UX any time they choose.

**Q. Are there any electronic protections on license counts?**

A. No, there are no electronic protections on license counts. For the time being, we are leaving it to customers to manage their own license assets. It is generally simplest for customers to keep their licenses within a SuperDome complex rather than trying to manage them across complexes. HP is in the process of defining some tools to aid in per-processor license management. In addition, utility computing will address many of these questions.

**Q. How does my customer purchase HP-UX 11.0 or 10.20? There are no longer separate products for those versions.**

A. Generally any customer who wants a system that will run HP-UX 11.0 or 10.20 should purchase an HP-UX Operating Environment License-to-Use (B9088AA). This option provides a license for HP-UX 11i and previous releases. The customer should then order the HP-UX Operating Environment Media Product (B3920EA) with either the 11.0 option (UM4) or 10.20 (APZ). This same product can also of course be used to obtain the 11i version of the HP-UX Operating Environment (option UM9).

## Operating Environments FAQs

**Q: What are HP-UX Operating Environments?**

A. Operating Environments (OEs) are bundles that consist of core HP-UX plus other layered products. The full OE bundles are fully tested to HP-UX release quality, including system regression testing, as well as installation/deinstallation testing. Customers are ensured the highest quality and the best customer experience.

**Q. Where should the HP-UX 11i Operating Environment be used?**

A. The HP-UX 11i Operating Environment will generally be used in replicated Web and content server applications, such as banks of A-Class or L-Class systems used as Web front ends. The 11i Operating Environment is free with every hp server. It includes a large number of Web-focused applications, such as the Apache Web Server, WebQoS Peak, Netscape Communicator, Java Runtime Environment and Java Developer's Kit. In addition, most networking card drivers are either loaded by default or customer-selectable.

**Q. Where should the HP-UX 11i Enterprise Operating Environment be used?**

A. The Enterprise Operating Environment will generally be used on mid-range servers where single-system high-availability is an important consideration. Enterprise HP-UX includes all the features and components of the HP-UX 11i Operating Environment. It adds such commonly-used high-availability features as OnlineJFS, MirrorDisk/UX, Process Resource Manager, GlancePlus Pak 2000, and EMS High Availability Monitors.

**Q. Where should the HP-UX 11i Mission-Critical Operating Environment be used?**

A. HP-UX 11i Mission-Critical Operating Environment should be employed in company-critical situations where yearly system downtime must be no more than a few minutes. It includes all the components of the HP-UX 11i Operating and Enterprise Operating Environments. In addition, it includes multi-system high-availability features like MC/Serviceguard and the MC/ServiceGuard NFS Toolkit. It also includes such high-end system features as Workload Manager, a goal-based allocation utility for system resources.

**Q. How does my customer upgrade to HP-UX 11i and Operating Environments?**

A. All HP-UX 10.20 and 11.0 customers whose systems are covered by support contracts are entitled to an upgrade to the HP-UX 11i Operating Environment and will receive CD-ROM kits for it. Customers who do not have support contracts will be required to purchase an OE license (use one of the “not with system” license products B9089AA, B9091AA or B9093AA).

**Q. Is VERITAS Volume Manager (VxVM) included in any of the Operating Environments?**

A. Base VERITAS Volume Manager for HP-UX is supplied free as an add-on application for the HP-UX 11i Operating Environment. Base VERITAS Volume Manager for HP-UX is identified with HP Product Number B7961AA. The full VERITAS Volume Manager, which includes disk mirroring and Dynamic Multipathing (DMP) is not included in any of the Operating Environments. It must be purchased separately by using HP Product Number B9116AA.

Fast Mirror Resynchronization (FMR) is a companion product to VERITAS Volume Manager that allows disk mirrors to be split off for backup, and then quickly resynchronized. That functionality is contained in a separate product, VERITAS Fast Mirror Resynchronization for HP-UX. That extra-cost product is identified with B9118AA.

**HP-UX 11.0**

Introduced in November 1997, HP-UX 11.0 is a true 64-bit operating system complete with a true 64-bit kernel. Both 32-bit and 64-bit applications can execute simultaneously on an HP-UX 11.0-driven 64-bit system. At the time of its introduction, HP-UX 11.0 offered many new feature enhancements over previous HP-UX releases.

Binary compatibility with existing 32-bit applications is supported if the programs use only published standard Application Programming Interfaces (APIs) and require no further linking to produce an executable.

HP-UX 11.0 includes support for kernel threads—allowing finer parallel granularity for application execution—as well as network capabilities NIS+ and NFS Protocol Version 3.

A Software Transition Kit web site featuring extensive tools and information is available to assist developers who need to create native 64-bit applications, communicate across 32- and 64-bit processes, and perform other tasks on HP-UX 11.0. The site's URL is <http://www.software.hp.com/STK>.

## Additional HP-UX 11.0 Information

Since it began shipping in 1997, HP-UX 11.0 has acquired functionality through the addition of Extension Packs and—most recently—by a new set of Additional Core Enhancements (ACEs). The version of 11.0 currently shipping is a combination of earlier HP-UX 11.0 versions and ACEs, the first of which became available in the December of 1999/January of 2000 timeframe.

As of January, 2000, the HP-UX 11.0 ACE contains new server and workstation support, as follows:

1. Support for the A400 and A500 hp servers
2. Full support for 32- and 64-bit HP-UX 11.0 across all PA-8x00 workstations
3. 32-bit HP-UX 11.0 across most other workstations including all b-, c-, and j-class systems
4. Workstation access to all standard 11.0 features such as kernel threads and Performance Optimized Page Sizing (variable page sizes)
5. 64-bit 2D X11R6 and full 3D support for PA-8x00 systems (servers and workstation running visualize-eg or visualize-*fx* graphics)

### HP-UX 10.20

HP-UX 10.20 is considered the last mainstream version of HP-UX 10.x. While HP-UX 10.20 is now functionally stable, during the course of its life HP recognized the large installed base of HP-UX 10.20 required additional feature enhancements. These enhancements were delivered in the form of Hardware Extensions.

The latest Hardware Extension version was HP-UX 10.20 Hardware Extensions 2.0 April 1998. The product contains the following elements:

- Cumulative changes in the original Hardware Extensions July 1997
- Hardware Extensions 1.1 February 1998
- Added support for some ONC+ Networking Enhancements (NFS Protocol Version 3, AutoFS, and CacheFS)
- Hardware reference products such as IBM and Fujitsu tape drives
- 4, 9, and 18 Gb disk drives.

This version of Hardware Extensions is available (1) via download at <http://www.software.hp.com>, (2) on CD-ROM (product #B3920EA, options APZ and AAF) and (3) through Factory Integration (Instant Ignition, via product #B3920EA, options APZ and 0D1). *Note: CD-ROMs and Instant Ignition deliver the latest version of Hardware Extensions.*

## HP-UX Operating Environment Licenses and Media

The HP-UX Operating Environment licenses and core media are available under separate product numbers and can be ordered from a system menu when purchasing a new system, or from Chapter Six of this guide when ordering upgrades. Order one of the HP-UX Operating Environment media products to receive an HP-UX Operating Environment either on CDs or instantly ignited on a system.

## Native Language Support

Localized system messages and catalogs are included with the HP-UX media. The table below lists the languages supported by the currently available HP-UX releases.

	Jpn	Kor	S-C	T-C	Ger	Fre	Spa	Ita	Swe
10.20	Y	Y	Y	Y	Y	Y	Y	Y	Y
11.0	Y	Y	Y	Y	Y	Y	Y	Y	Y
11i	Y	Y	Y	Y	Y	Y	Y	Y	Y

## Asian Languages

All Asian fonts and I/O methods are included with every HP-UX 11i Operating Environment. These fonts and I/O methods allow hp servers to transmit and receive characters in character sets other than standard Roman. The following languages are supported:

- Japanese
- Korean
- simplified Chinese (China)
- traditional Chinese (Taiwan)

## Ordering HP-UX Software Using the Application Availability Matrix

The Software Simplification Program removed all media and version options from the majority of HP-UX products on the 10.20, 11.0 and 11i streams. This simplified product structure reduced CPL line items by approximately 50% and streamlines a critical part of the ordering process.

With the removal of these options, it is necessary to use the Application Availability Matrix to identify whether a product is orderable on a particular operating system stream (i.e. 10.20, 11.0 or 11i). This section describes how to interpret the Application Availability Matrix.

*Note: HP-UX 11.0 is shipped with both the 32-bit and 64-bit versions on the same CD. Depending on the underlying hardware, customers can install either the 32-bit or 64-bit version of HP-UX 11.0 or HP-UX 11i.*

## How to Interpret the Application Availability Matrix

The Availability Matrix only shows layered HP-UX products that are delivered on the HP-UX 10.20, 11.0 and 11i Application CD-ROM kits. Please see the Server Independent Application Matrix on the Web at <http://www.software.hp.com/MATRIX> to determine availability for products that deliver separately from the HP-UX CD-ROM kit.

When a product first becomes available on the HP Corporate Price List it appears on the matrix with no OS streams identified. Once a product appears on an Application CD-ROM, the date it first appeared on that CD-ROM will be noted under the appropriate OS stream.

There is one matrix for servers and a different matrix for workstations. If one product number is used for both, then that product number will appear on both matrices. *Note: The versions of the server and workstation matrices presented here may not be the latest version. Please access the latest version at <http://www.software.hp.com/MATRIX>.*

At the bottom of the matrix there is a listing of operating system kits and Application CD-ROM kits for each stream. The Operating System kit should be ordered if the customer requires software on CD-ROM. The Application CD-ROM kit should be ordered by customers who have never purchased an Application CD-ROM before, or who are ordering a new product and the latest version of the product does not exist on their current Application CD-ROM.

**Important Points**

1. The Application CD-ROM kit is also contained within each Operating Environment CD Kit.
2. Most product numbers simply supply license documents and codeword certificates to unlock the product.
3. For HP-UX, a copy of all Application Software is shipped with every new system ordered with the Operating System Kit.

*Note: Existing systems would order the Application CD kit and the required license/codeword certificate for the specific software product.*

*Note: See the Notes section, below, for information on the new replacements for A2440A and B3897A.*

**Ordering and Availability Examples**

The following examples are described in detail below. The Application Availability Matrix is presented in the next section.

1. New Systems Ordering
2. Existing Systems Ordering
3. Ordering Systems Without Factory Integration or CD-ROM Media Kit

**Example #1: New Systems Ordering**

The customer wants to buy HP Products X and Y for a new HP-UX 11i system.

**Availability Matrix Entries**

Product #	Description	10.20	11.0	11i
B1234AB	HP Product X	Aug-96	n/a	n/a
B4567AB	HP Product Y	Mar-97	Nov-97	Mar-01

**Operating System CD Media Kits**

Product #	Option	Release	Availability
B9441AA	UM9	HP-UX 11i Operating Environment on CD-ROM Media	12/01/00
B3920EA	UM4	HP-UX 11.0 Operating System CD-ROM Media	11/01/97
B3920EA	APZ	HP-UX 10.20 Operating System CD-ROM Media	11/01/97

The above tables indicate the following:

1. B1234AB is not available on HP-UX 11i
2. B4567AB is on any HP-UX 11i Application CD kits later than March of 2001

All new hp server systems require the ordering of one of the following:

- HP-UX Operating Environment
- Enterprise Operating Environment
- Mission Critical Operating Environment
- Technical Computing Operating Environment.

To complete the above ordering example, the following products are required:

B9088AA/AE5	HP-UX 11i Operating Environment license-to-use for tier 2 Operating System License, 2 user license included, revision 11.0
B3920EA/UM9	HP-UX Operating System CD Media kit, revision 11i, Application CD media included
B4567AB	HP Product Y license/codeword certificate



There are additional options possible for the above, but this example illustrates the concept that the B3920EA kit contains ALL of the application software on a single CD. It requires only the appropriate product license/codeword certificate to complete the order.

**Example #2: Existing Systems Ordering**

The customer wants to buy HP Product X for an existing HP-UX 11.0 system.

Product #	Description	10.20	11.0	11i
B1234AB	HP Product X	8/96	n/a	n/a
B4567AB	HP Product Y	3/97	11/97	03/01

**Application CD Media Kits**

Product #	Description	Availability
B9441AA	HP-UX 11i Application CD Media	12/01/00
B6201AA	HP-UX 11.0 Application CD Media	11/01/97
B5448AA	HP-UX 10.20 Application CD Media	11/01/97

The above tables indicate the following:

1. B1234AB is available on HP-UX 10.20
2. B5181AA is the required HP-UX 10.20 Application CD media

Customers who do not already have the latest Application CD kit containing the desired product will need to order the following:

B6201AA	HP-UX Application CD Media kit, revision 11.0
B1234AB	HP Product X license/codeword certificate

Customers do not require the B3920EA HP-UX Operating System Media since they should already have them. B3920EA would only be ordered for an existing system if the customer wanted to upgrade to the next HP-UX revision and was not on support contract.

**Example #3: Ordering Systems Without Factory Integration or CD-ROM Media Kit**

The customer buys a new N-Class HP-UX 11i system to complement an existing system. The customer already owns a current copy of the HP-UX CD-ROM Media Kit and also does not want Factory Integration. The system will be cold-installed with the existing HP-UX CD-ROM Media Kit. This customer shouldn't spend the extra \$520 (B3920EA AAF) or extra \$195 (B3920EA 0D1) when neither is desired.

In this situation, the B3920EA product is optional; since the customer already has the HP-UX CD-ROM Media Kit and is going to cold-install the system, neither AAF or 0D1 is required. The order for the software must include one of the following Operating Environment licenses-to-use:

B9088AA	HP-UX Operating Environment
B9090AA	HP-UX Enterprise Operating Environment
B9092AA	HP-UX Mission Critical Operating Environment
B6822AA	Technical Computing Operating Environment

**Notes**

Licenses and media are logically separate, allowing greater flexibility in ordering. Customers who simply need a license or media will get the appropriate product. It is only required that one of the Operating Environment licenses-to-use be ordered with the system. The customer need only order media as necessary.

The Application Availability Matrix is presented herein, while an updated version is presented online at <http://www.software.hp.com/MATRIX/overview.html>.

## The Application Availability Matrix for Server Products

### Description of the Application Availability Matrix Columns

Product Number	The product number that appears on the Hewlett-Packard Corporate Price List as an orderable product.
Product Description	The product description that appears on the Hewlett-Packard Corporate Price List.
Operating System Kits	A media set that includes the operating system, extension, application, and diagnostic software. Ordered when a customer requires backup media.
Application CD Kits	A CD set that includes a collection of HP-UX applications only. Customers should order an Application CD kit if they have never purchased an Application CD before, or if they are ordering a new product and the latest version of the product does not exist on their current Application CD.

### Application Availability Matrix for HP-UX Streams

- An up-to-date version of the Matrix can be accessed online at <http://www.software.hp.com/MATRIX/overview.html>
- This information quickly becomes out-of-date; always consult Web version for latest information
- The Web version also contains a list of OpenView products that ship apart from the HP-UX Application CDs
- Dates indicate the earliest date the product appeared on the HP-UX CD-ROM Media for that particular stream of HP-UX

Product #	Product Description	HP-UX 10.20	HP-UX 11.0	HP-UX 11i
32032C	HP X.400/9000 License for Series 800/700	Nov-97	Nov-97	n/a
32046A	Appl Computerized Telephony API License	Mar-97	n/a	Dec-00
32032C	HP X.400/9000 License for Series 800/700	Nov-97	Nov-97	n/a
93302PD	Datakit NIO I/F Card & Software	Oct-97	n/a	n/a
B1033B	HP FTAM LTU for Servers	Nov-97	Nov-97	n/a
B1217A	Emul of SCO MAPCHAN supp on HP-UX, media	Aug-96	n/a	n/a
B1905BA	HP OV OpenSpool 10.x Media for S800	Aug-96	n/a	n/a
B1905CA	HP OV OpenSpool CD media for HP-UX 11.0	n/a	Aug-98	n/a
B1956BA	OmniBack II DAT/DDS media - CD-ROM	n/a	n/a	n/a
B1956CA	OmniBack II DAT/DDS, CD-ROM media server	Aug-96	n/a	n/a
B1956DA	OV OmniBack II CD-ROM media	n/a	Feb-98	n/a
B1978CA	HP OV OmniStorage 2.20 Media HP-UX 10.20	Dec-97	n/a	n/a
B2433DB	HP Micro Focus COBOL Dev Suite LTU	Nov-97*	n/a	n/a
B2433EB	HP Micro Focus Object COBOL LTU Devel	Nov-97*	Nov-97*	Dec-00
B2435DB	HP Micro Focus COBOL Run Time Pack LTU	Nov-97*	n/a	n/a
B2435EB	HP Micro Focus Object COBOL RT LTU Pk	Dec-97	Nov-97*	Dec-00
B2491BA	MirrorDisk/UX License for Servers	Nov-97*	Nov-97*	Dec-00
B3187B	DCE CDS Server License	Nov-97	Nov-97	n/a
B3188B	DCE Security Server license for Servers	Nov-97	Nov-97	n/a
B3192B	DCE & OODCE Development Toolbox LTU	Nov-97	Nov-97	n/a
B3394BA	HP-UX Developer's Toolkit LTU Server	Nov-97*	Nov-97*	Dec-00
B3693AA	HP OV GlancePlus HP9000 Server, Media	Aug-96*	Nov-97*	Dec-00
B3693AJ	HP OV GlancePlus Server Media, Japanese	Aug-96*	Nov-97*	Dec-00
B3701AA	HP OV GlancePlus Pak Servers, Media/Man	Aug-96*	Feb-98	Dec-00
B3701AJ	HP OV Glance+ Pak Svr, Media/Man Japan	Aug-96*	Feb-98	Dec-00
B3835DA	HP Process Resource Manager License	n/a	Nov-97*	Dec-00
B3835BJ	HP Process Resource Manager Jpn License	Jun-98*	Jun-98*	Dec-00
B3859BB	HP MicroFocus Nihongo COBOL Develop LTU	Nov-97	Nov-97	n/a
B3861BB	HP MicroFocus Nihongo COBOL Compiler LTU	Nov-97	Nov-97	n/a
B3863BB	HP MicroFocus Nihongo COBOL Run Time LTU	Nov-97	Nov-97	n/a
B3864AA	DCE/9000 U.S. Libraries - media	Aug-96	Nov-97	n/a

## Chapter 5 How to Order Software



Product #	Product Description	HP-UX 10.20	HP-UX 11.0	HP-UX 11i
B3901BA	HP C/ANSI C Developer Bundle Server LTU	Nov-97*	Nov-97*	Dec-00
B3905BA	HP Pascal Server LTU	Nov-97*	Nov-97*	Dec-00
B3909DB	HP Fortran 90 User LTU for Srvrs	Nov-97*	Nov-97*	Dec-00
B3913DB	HP aC++ LTU for Servers	Nov-97*	Nov-97*	Dec-00
B3929BA	OnLineJFS License 3.1	Nov-97*	Nov-97*	n/a
B3929CA	OnlineJFS 3.3	n/a	Mar-00	Dec-00
B3935CA	MC/ServiceGuard Software & License, 10.20	Jun-00	n/a	n/a
B3935DA	MC/ServiceGuard, HP-UX 11.x	n/a	Jun-00	Dec-00
B3939BA	HP-PHIGS Development Environment LTU	Nov-97	n/a	n/a
B3940BA	HP-PHIGS 3.0 Run-Time Environment LTU	Nov-97	n/a	n/a
B4256CA	HP OV IT/Administration 10.20	Dec-97	n/a	n/a
B4967AA	HP OV MW HP9000 Server, Media/Man	Aug-96*	Feb-98	Dec-00
B497AJ	HP OV MW Svr, Media/Man Japanese	Aug-96*	Feb-98	Dec-00
B5013AA	HP OV PerfView Analyzer Servers, Media	Jan-97*	Apr-98*	Dec-00
B5015AA	HP OV PerfView Monitor Server, Media	Jan-97*	Apr-98*	Dec-00
B5017AA	HP OV PerfView Planner Server, Media	Jan-97*	Apr-98*	Dec-00
B5118CA	HP OnlineJFS 3.3 for workstations	n/z	Mar-00	Dec-00
B5139CA	Enterprise Cluster Master Toolkit LTU for 10.20	Nov-97*	n/a	n/a
B5139DA	Enterprise Cluster Master Toolkit for 11.x	n/a	Jun-00	Dec-00
B5140BA	MC/ServiceGuard NFS Toolkit License	Nov-97*	Feb-98	Dec-00
B5161DA	ServiceGuard OPS Edition for HP-UX 10.20	Jun-00	n/a	n/a
B5161EA	ServiceGuard OPS Edition for HP-UX 11.x	n/a	Jun-00	Dec-00
B5174CA	ClusterView Plus, English	Jun-98	Mar-00	n/a
B5174CJ	ClusterView Plus, Japanese	Jun-98	Mar-00	n/a
B5418BA	ALLBASE/SQL Runtime license for servers	Nov-97*	Nov-97*	n/a
B5420BA	ALLBASE/SQL Development for servers, LTU	Nov-97*	Nov-97*	n/a
B5455CA	Java JDK for Workstation License	n/a	Jun-98*	n/a
B5456CA	HP-UX Developers Kit JIT for Java LTU	Apr-98*	Apr-98*	n/a
B5458DA	Java Runtime Environment LTU for Servers	Aug-98*	n/a	n/a
B5486BA	HP-RT Developer's Kit License.	Nov-97	n/a	n/a
B5488BA	VME Backplane Networking License.	Nov-97	n/a	n/a
B5490BA	STREAMSrt License.	Nov-97	n/a	n/a
B5492BA	X11 SERVERrt License.	Nov-97	n/a	n/a
B5494BA	SNMPrt License.	Nov-97	n/a	n/a
B5736CA	EMS HA Monitors LTU, 10.20	Nov-97	n/a	n/a
B5736DA	EMS HA Monitors, 11.x	n/a	Jun-00	Dec-00
B6060BA	HP 32/64-bit MPI Optimized,V class LTU	Jun-00	Jun-00*	Dec-00
B6061AA	Par 32-bit Scientific Sub Library LTU	n/a	Jun-98*	Dec-00
B6264BA	MetroCluster with EMC SRDF License	Jun-98*	Jun-98*	Dec-00
B6323BA	CXperf App Performance Analyzer LTU	n/a	Jun-98*	n/a
B6445EB	C SoftBench LTU for 10.20 11.x Servers	Apr-98	Jun-98	Dec-00
B6446DB	Japanese C SoftBench LTU 10.20 11.x Svr	Apr-98	Jun-98	Dec-00
B6447EB	C++ SoftBench LTU for 10.20 11.0 Svrs	Apr-98	Jun-98	Dec-00
B6448EB	Japanese C++ SoftBench LTU 10.20 11 Svrs	Apr-98	Jun-98	Dec-00
B6834AA	Security Patch Check for HP-UX 11.x	n/a	Mar-00	n/a
B6940AA	HP OpenView ITO 5.x for HP-UX 10.20	Apr-99	n/a	n/a
B6940BA	HP OpenView ITO 5.x for 11.0		Sept-99	n/a
B6943AA	OpenView ITO 5.x, HP/Sun Dev kit,	Apr-99	Sept-99	n/a
B7490AA	OpenView VP Manager 6.x, HP-UX	Sep-00	Sep-00	n/a
B7492AA	OV VP Dev Kit 6.X	Sep-00	Sep-00	n/a
B7659BA	Continental Clusters	n/a	Mar-00	Dec-00
B7885BA	MC/ServiceGuard Extensions to SAP	Jun-99	Jun-99	n/a
B8109BA	MetroCluster with Continuous Access XP	Sep-99	Sep-99	Dec-00
B8110AA	HP-UX Software Dev Kit, LTU for Java 2 Platform	n/a	Mar-00	Dec-00
B8111AA	HP-UX Java Runtime Environment, LTU for Java 2 Platform	n/a	Mar-00	Dec-00
B8311AA	HP OpenView WebQoS v2.4	n/a	Dec-99	Dec-00
B8313AA	iPlanet Web Server, Ent Edition 4.x, International version	n/a	Dec-99	Dec-00

Product #	Product Description	HP-UX 10.20	HP-UX 11.0	HP-UX 11i
B8703AA	HP OpenView WebQoS v2 12 CPU license	n/a	Dec-99	n/a
B8704AA	HP OpenView WebQoS 12+ CPU license	n/a	Dec-99	n/a
B8724AA	CIFS/9000 Client LTU for servers and workstations	n/a	Mar-00	Dec-00
B8731AA	HP WebQoS Multi-OS site license	n/a	Dec-99	n/a
B8752AA	HP 3D Technology API for Java Dev Kit	n/a	n/a	Dec-00
B8843CA	HP-UX Workload Manager	n/a	Sep-00	Dec-00
B9098AA	Java 2 Plugin for HP-UX	n/a	n/a	Dec-00
B9116AA	VERITAS Volume Manager 3.1 for HP-UX	n/a	n/a	Dec-00
B9415AA	Apache Web Server with strong (128-bit) encryption	n/a	n/a	Dec-00
B9901AA	HP Praesidium IPFilter	n/a	Mar-00	Mar-00
J1134AA	HP OpenView NNM 5.01 HP-UX Media	Oct-97	n/a	n/a
J1134AJ	HP OpenView NNM 5.01 HP-UX Media Japan	Oct-97	n/a	n/a
J1148AA	HP OV NNM Dev Toolkit 5.01 HP-UX Media	Oct-97	n/a	n/a
J2120B	HP DTC Manager/UX Media for Svrs	Nov-97	Nov-97	Dec-00
J2157B	HP FDDI/9000 for Servers	Nov-97*	Nov-97*	n/a
J2165B	HP EISA Token Ring Hardware & LTU	Nov-97	Nov-97*	n/a
J2166B	HP Token Ring/9000 LTU for Servers	Nov-97*	Nov-97*	n/a
J2250B	HP Token Ring/9000 Server Backup Media	Nov-97	Nov-97	n/a
J2469A	ATM 155 MBps HP-HSC Adapter driver	Jun-99	Jun-99	n/a
J2482A	EISA 8-port RS-232 Mux system card	Jun-99	Jun-99	n/a
J2483A	EISA 64-port RS-232 Mux system card	Jun-99	Jun-99	n/a
J2496B	DTC 16 RX Management sw license	Nov-97	Nov-97	Dec-00
J2636BA	TN3270 System LTU	Nov-97*	n/a	n/a
J2638BA	EISA Token Ring back up Media Manuals	Nov-97	Nov-97	n/a
J2715BA	Advanced Server/9000 for Servers LTU	Nov-97*	n/a	n/a
J2720BA	SNAPLUS2 Link Server LTU	Nov-97	Apr-98*	n/a
J2721BA	SNAPLUS2 APPN End Node Server LTU	Nov-97	Apr-98*	n/a
J2722BA	SNAPLUS2 3270/3179G Server LTU	Nov-97	Apr-98*	n/a
J2723BA	SNAPLUS2 RJE Server LTU	Nov-97	Apr-98*	n/a
J2724BA	SNAPLUS2 API Server LTU	Nov-97	Apr-98*	n/a
J2793B	X.25/9000 SW media for HP 9000 system	Nov-97*	Nov-97*	n/a
J3420B	155 MBPS HSC ATM card for Industrial Workstations	n/a	Jun-99	n/a
J3514A	HSC 100Base-T LAN Adapter	Jun-99	Jun-99	n/a
J3515A	HSC 100-BaseT Single Port LAN Adapter	Jun-99	Jun-99	n/a
J3516A	HSC FF 100-Base-X Dual-Port LAN Adapter	Jun-99	Jun-99	n/a
J3529A	Frame Relay LTU for HP 9000 Svrs & Wkstn	Dec-97	Apr-98*	Dec-00
J3573A	ATM 622 MBPS HP-HSC Adapter EISA FF	Jun-99	Jun-99	n/a
J3592A	8 port PCI Serial MUX card	Jun-99	Jun-99	n/a
J3593A	PCI 64-port Serial Mux System Card	Jun-99	Jun-99	n/a
J3630BA	Fibre Channel GB Mass Storage License	Dec-97*	n/a	n/a
J3641DA	Netscape Enterprise Server 50 LTU Media	Nov-97*	Apr-98*	n/a
J4240AA	HP Auto Port Aggregation	n/a	Oct-98	Dec-00
J4255AA	IPSec/9000 (168-bit)	n/a	Sep-00	n/a
J4256AA	IPSec/9000 (56-bit)	n/a	Sep-00	n/a
J4258BA	Netscape Directory Server Intranet v 4.12, International	n/a	Jun-00	Mar-01
J4262AA	HP Praesidium CDSA Framework	n/a	Sep-99	Dec-00
J4264AA	Netscape Directory Server Intranet v 4.12, U.S.A	n/a	Jun-00	Mar-01
J4269AA	LDAP UX Integration License	Sep-99	Jun-99	Mar-01
J4270AA	HP WebQoS Peak UX License	n/a	Sep-99	Dec-00
J4271AA	iPlanet Enterprise Server, for the U.S and Canada	n/a	Dec-99	Dec-00
J4274AA	HP WebQoS Peak Packaged Edition LTU	n/a	Sep-99	Dec-00
J5080AA	Auto-Port Aggregation LAN Monitor, 10.20	Mar-00	n/a	n/a
J5083AA	HP Praesidium IDS/9000	n/a	Mar-01	Mar-01
J5849AA	Pluggable Authentication Module – Kerberos	n/a	Mar-00	Dec-00
J6352AA	Central Web Console 2.0, HP-UX 11.x	n/a	Dec-00	n/a
Z7126A	NIO Datakit I/F card, Commkit 4.0 SW LTU	Oct-97	n/a	Dec-00
Z7476AA	ACC & X.25 Software Bundle License	n/a	Dec-98	Dec-00

Product #	Product Description	HP-UX 10.20	HP-UX 11.0	HP-UX 11i
Z7478AA	ACC Base Software License	n/a	Dec-98	Dec-00
Z7480AA	ACC X.25 Link Software License	n/a	Dec-98	Dec-00
Z7484AA	ACC SNA Plus 2 Link Software License	n/a	Jun-99	n/a
Z7486AA	ACC Protocols for Application Developers SW LTU	n/a	Dec-98	Dec-00

### Operating System CD Media Kits

Product #	Description	Availability
B3920EA Opt. UM9	HP-UX 11i Operating Environment CD-ROM Media	12/01/00
B7993AA Opt. UM9	HP-UX Enterprise Operating Environment CD-ROM Media	12/01/00
B7994AA Opt. UM9	HP-UX Mission Critical Operating Environment CD-ROM Media	12/01/00
B6821AA Opt. UM9	HP-UX Technical Computing Operating Environment CD-ROM Media	12/01/00
B3920EA Opt. UM4	HP-UX 11.0 Operating System CD-ROM Media	11/01/97
B3920EA Opt. APZ	HP-UX 10.20 Operating System CD-ROM Media	11/01/97

### Application CD Media Kits

Product #	Description	Availability
B9441AA	HP-UX 11i Application CD Media	12/01/00
B6201AA	HP-UX 11.0 Application CD Media	11/01/97
B5448AA	HP-UX 10.20 Application CD Media	11/01/97

### Ordering New Systems

When ordering a new server, the HP-UX operating environment licenses-to-use, and media are ordered from the Structured Solutions Product system menus in Chapter Two of this guide.

### Ordering Software for Existing Systems

If ordering HP-UX for an existing system, use the menus listed in Chapter Five of this Guide.

### Ordering HP-UX Documentation

Each HP-UX CD-ROM kit includes a minimal hardcopy set of system administration documentation that is outlined in Chapter Six. A full hardcopy system administration manual set (option 0BE on 11i, 11.0 and 10.20 documentation products) is available, as are other manual sets. Chapter Six lists all manual sets available for all versions of the HP-UX operating system.

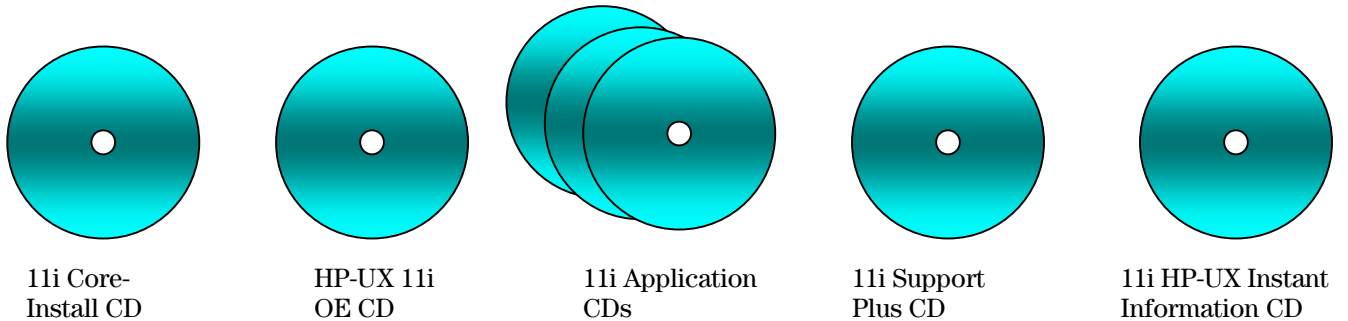
HP-UX documentation is available on CD-ROM or in hardcopy. The CD-ROM version provides a complete set of the operating system manuals. A copy of this CD-ROM is included with every HP-UX Media Kit. Hardcopy documentation sets can be ordered using the options outlined in Chapter Six, or manuals may be ordered individually online at <http://www1.fatbrain.com/documentation/hp>. Localized documentation is available for several languages (see Chapter Six).

*Note: Documentation on CD-ROM (option 0BC) provides all manuals listed under options 0BD, 0BG, 0BE, 0BF.*

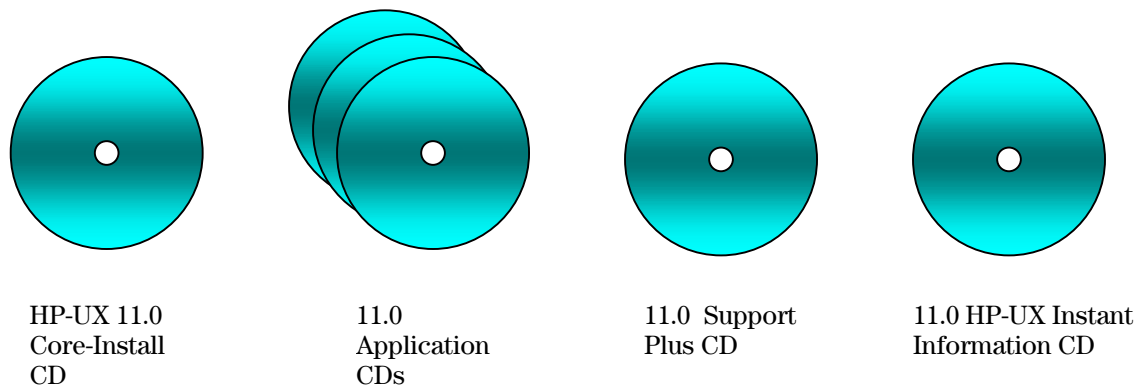
## CD-ROM Software Distribution

Each version of HP-UX CD-ROM kits consists of (1) a CD or CDs to install HP-UX, (2) CDs containing all the layered software products and (3) CDs for patches and support. Each kit includes a slightly different group of CDs. The following pictures show the contents of each CD kit.

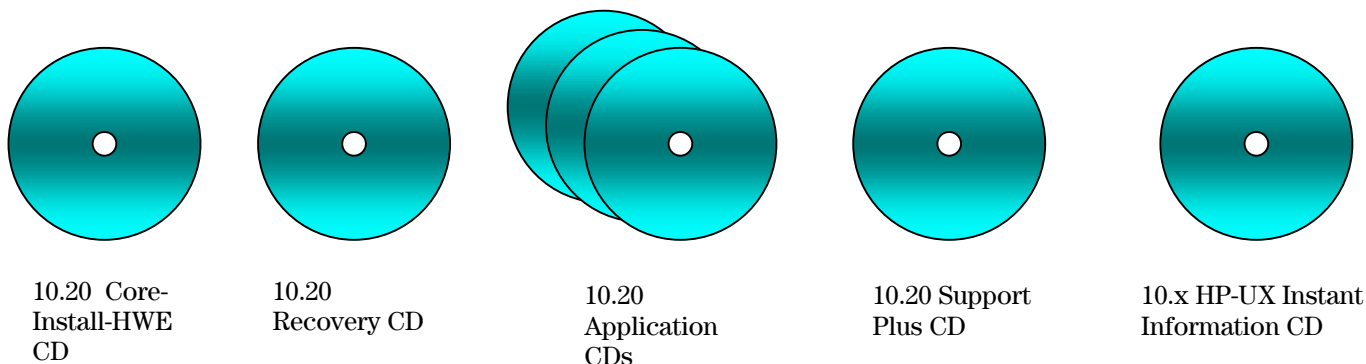
### HP-UX 11i CD-ROM kit (B3920EA, B7993EA, B7994EA, option UM9)



### HP-UX 11.0 CD-ROM Kit (B3920EA, Option UM4)



**HP-UX 10.20 CD Kit (B3920EA, Option APZ)**



**Function of each CD**

Each CD performs a specific function. This table provides a brief explanation of the purpose of each CD.

CD Type	11i	11.0	10.20	Function
Install-Core	✓	✓	✓	CD to boot and install HP-UX on a clean system. Contains all necessary hardware support for booting.
Operating Environment CD	✓			Contains all layered parts of the HP-UX Operating Environments for HP-UX 11i. 11i Operating Environment installation involves both the Core CD and this CD. Comes in 11i OE, Enterprise and Mission-Critical versions.
Applications CDs	✓	✓	✓	Contains all HP-UX layered software products specific to that version of HP-UX. Some applications are unlocked. Most applications require a codeword for the application to be installed.
Recovery CD			✓	Bootable CD used to recover the operating system on a disk that has experienced problems
Support Plus	✓	✓	✓	Contains General Release patch bundles, HP-UX Quality Pack, diagnostics and Independent Peripheral Release (IPR)
Instant Information	✓	✓	✓	Electronic documentation for the corresponding HP-UX release

**Application CD-ROM Media**

To purchase additional application software not already on their CD-ROM for existing servers, customers must order the Application CD-ROM Media product for their corresponding HP-UX release to receive the media. The following ordering procedure will ensure that customers receive a license, a codeword certificate or request form, and CD-ROM media for their new application.

1. Order the license for the application including the CD-ROM media option.
2. Order the Application CD-ROM Media product for the HP-UX release that the application will be installed on:  
**B9441AA** for HP-UX 11i  
**B6201AA** for HP-UX 11.0  
**B5448AA** for HP-UX 10.20
3. Add the new application to the support agreement so that any future updates will not be missed.

For new systems, use the following order numbers to obtain HP-UX and the Application CD-ROMs:

HP-UX Version	Order Numbers and Options
11i Operating Environment	B3920EA, option UM9
11i Enterprise Operating Environment	B7993AA, options UM9 and AAF
11i Mission Critical Operating Environment	B7994AA, options UM9 and AAF
11i Technical Computing Operating Environment	B6821AA, options UM9 and AAF
11.0	B3920EA, option UM4
10.20	B3920EA, option APZ

### System Support Options

Refer to the Support Chapter of this guide for information on ordering support for the HP-UX operating system.

### DCE/9000 Ordering Information

DCE/9000 products and versions through 1.7 are available as of November 1997. They are listed here with their corresponding TOG (The Open Group) DCE version numbers. There will be no further enhancements from HP beyond Version 1.7, however the product will continue to be available on HP-UX 11.x.

HP-UX Version Number	DCE/9000 Version Number Available	Version Number of Executive (Client) Bundled into OS
10.01	DCE/9000 1.4 (TOG DCE 1.1)	DCE/9000 1.3.1 (TOG DCE 1.0.3) DCE/9000 1.4 client available separately (\$0)
10.10	DCE/9000 1.4.1 (TOG DCE 1.1)	DCE/9000 1.4.1 (TOG DCE 1.1)
10.20	DCE/9000 1.5 (TOG DCE 1.1)	DCE/9000 1.5 (TOG DCE 1.1)
11.00	DCE/9000 1.7 (TOG DCE 1.2)	DCE/9000 1.7 (TOG DCE 1.2)

Version 9.X has been discontinued as of November 1, 1997.







## Subchapter 6.1—HP-UX for Operating Environment

### Operating System Versions

This section reflects the Software Simplification Program implemented in the fall of 1997. Please consult Chapter 5 on How To Order Software for further details.

	Description		Product #	Opt #	Price
•	<b>HP-UX Version Server Operating System Media and Manuals</b>	[ ]	B3920EA		
	All versions of HP-UX Operating System are ordered through this single simplified product structure. HP-UX documentation is still available as a standalone product with unique product numbers. Option ABA includes English HP-UX and the minimal System Administration Documentation in English.				
	<b>Must Order one language option</b>				
	English	[ ]		ABA	
	German	[ ]		ABD	
	Spanish	[ ]		ABE	
	French	[ ]		ABF	
	Japanese	[ ]		ABJ	
	Swedish	[ ]		ABS	
	Italian	[ ]		ABZ	
	Traditional Chinese	[ ]		AB0	
	Korean	[ ]		AB1	
	Simplified Chinese	[ ]		AB2	
	64 bit configuration (for HP-UX 11.00 64-bit capable systems only - see Chapter 5 for a list of supported systems; if not selected, default is 32-bit configuration)	[ ]		ASF	
	<b>HP-UX version (must order one)</b>				
	HP-UX revision 11.00	[ ]		UM4	
	HP-UX revision 10.20	[ ]		APZ	
	HP-UX revision 10.10 (note that HP-UX 10.10 will be discontinued as of 6/30/99)	[ ]		APX	
	HP-UX revision 10.01	[ ]		APS	
	Instant Ignition	[ ]		OD1	
	The following two options apply to HP-UX 10.20 and are only valid with option OD1. Please read the section describing HP-UX 10.20 HWE regarding the Year-2000 patches for proper use of options 001 and 002.				
	HP-UX 10.20 General Release patches (requires OD1)			001	
	HP-UX 10.20 ONC+ patches (requires OD1)			002	
	CD-ROM Media	[ ]		AAF	
•	The following product may be required for hardware acquired after the release of HP-UX 11.00 and the latest application CDs are not required. It is not needed if B3920EA AAF is ordered.				
•	HP-UX 11.00 Install core media kit	[ ]	B6261AA		
•	<b>HP-UX User License for Servers</b>	[ ]	B3919EA		
	Provides HP-UX user license, user upgrade credit, and user level fileset for HP-UX when upgrading above current user license. For new systems, a 2-user level license is included in the B3919EA product. When upgrading a new system from 2-user level, please add option UB1 for the 2-user level license credit.				
	8-user level	[ ]		AGL	
	16-user level	[ ]		AGM	
	32-user level	[ ]		AGN	
	64-user level	[ ]		AGP	
	Unlimited user level	[ ]		AGS	
	Special Edition HP-UX Unlimited user level – A/R class systems only	[ ]		B9U	
	HP-UX User Upgrade Credit (May order one)				
	Credit for 2-user license	[ ]		UB1	
	Credit for 8-user license	[ ]		UB3	
	Credit for 16-user license	[ ]		UB5	
	Credit for 32-user license	[ ]		UB7	



Description		Product #	Opt #	Price
Credit for 64-user license	[ ]		UB9	
<b>HP-UX version (must order one)</b>				
HP-UX revision 11.00	[ ]		UM4	
HP-UX revision 10.20	[ ]		APZ	
HP-UX revision 10.10 (note that HP-UX 10.10 will be discontinued as of 6/30/99)	[ ]		APX	
HP-UX revision 10.01	[ ]		APS	
<b>Software pre-loading (Optional -- Max 1)</b>				
Instant Ignition: pre-loaded and configured HP-UX operating system and additional HP Software. Note that customary \$195 charge resides in B3920EA; not double-charged here.	[ ]		OD1	
• <b>HP-UX Version 11.00 Documentation</b>				
Advanced Users Documentation	[ ]	B3921EA	OBG	
Programming Reference Documentation	[ ]		OBF	
HP DCE Documentation	[ ]		AVC	
System Administration Documentation	[ ]		OBE	
CDE General Usage manuals	[ ]		AVL	
Documentation on CD-ROM	[ ]		OBC	
• <b>HP-UX Version 11.00 French Documentation</b>				
French-only Documentation	[ ]	B3921EF	ABF	
System Administration Documentation	[ ]		OBE	
CDE General Usage manuals	[ ]		AVL	
• <b>HP-UX Version 11.00 German Documentation</b>				
System Administration Documentation	[ ]	B3921ED	OBE	
CDE General Usage manuals	[ ]		AVL	
• <b>HP-UX Version 11.00 Japanese Documentation</b>				
System Administration Documentation	[ ]	B3921EJ	OBE	
CDE General Usage manuals	[ ]		AVL	
Documentation on CD-ROM	[ ]		OBC	

**HP-UX 10.20 Documentation**

Description		Product #	Opt #	Price
• <b>HP-UX 10.20 Media and Manuals</b>				
<b>Documentation included with HP-UX 10.20 media (English)</b>				
- Configuring HP-UX for Peripherals (B2355-90053)		B3920CA	ABA	
- HP-UX System Administration Task (B2355-90079)				
- Installing HP-UX 10.0 and Upgrading to 10.20 (B2355-90078)				
- Localized System Configuration Overview (B3782-90064)				
- Kermit Mailer Card (B2355-90063)				
- Read Me Before Installing HP-UX 10.20 (B3782-90049)				
- Release Notes (Online Only)				
<b>Documentation included with HP-UX 10.20 Media (Japanese)</b>				
- ATOK8 Input Guide (B3782-90027)			ABJ	
- Configuring HP-UX for Peripherals (B2355-97053)				
- EGBridge Input Guide (B3782-90028)				
- HP-UX Read Me (B3782-90080)				
- HP-UX Release Notes (B3782-90087)				
- HP-UX System Administration Tasks (B2355-97079)				
- HP XJIM Input Guide (B3782-90026)				
- Installing HP-UX 10.x (B2355-97086)				
- JSE Release Notes (B3782-90096)				
- JSE User's Guide (B3782-90091)				
- Kermit Mailer Card - supplied in English (B2355-90063)				
- L10N Read Me Japanese (B3782-90086)				
- VJE Input Guide (B3782-90029)				



Description	Product #	Opt #	Price
<b>Documentation included with HP-UX 10.20 Media (Traditional Chinese)</b>		AB0	
– Configuring HP-UX for Peripherals - supplied in English (B2355-90053)			
– HP-UX Read Me (B3782-90123)			
– HP-UX System Administration Tasks - supplied in English (B2355-90079)			
– Installing HP-UX - supplied in English (B2355-90119)			
– Kermit Mailer Card - supplied in English (B2355-90063)			
– L10N Read Me Traditional Chinese (B3782-90126)			
– TSE Release Notes (B3782-90117)			
– TSE User's Guide (B3782-90113)			
– HP VUE 3.0 User's Guide (B1171-90097)			
<b>Documentation included with HP-UX 10.20 Media (Korean)</b>		AB1	
– Configuring HP-UX for Peripherals - supplied in English (B2355-90053)			
– HP-UX Read Me (B3782-90122)			
– HP-UX System Administration Tasks (B2355-94079)			
– Installing HP-UX 10.20 - supplied in English (B2355-90119)			
– Kermit Mailer Card - supplied in English (B2355-90063)			
– KSE Release Notes (B3782-90116)			
– KSE User's Guide (B3782-90112)			
– L10N Read Me Korean (B3782-90125)			
– MNL-VUE 3.0 Quick Start (B1171-90091)			
– VUE 3.0 User's Guide (B1171-90098)			
– XDevice User's Guide (B3782-90101)			
<b>Documentation included with HP-UX 10.20 Media (Simplified Chinese)</b>		AB2	
– Configuring HP-UX for Peripherals - supplied in English (B2355-90053)			
– HP-UX Read Me - supplied in English (B3782-90103)			
– HP-UX System Administration Tasks - supplied in English (B2355-90079)			
– Installing HP-UX 10.x - supplied in English (B2355-90119)			
– Kermit Mailer Card - supplied in English (B2355-90063)			
– L10N Read Me Simplified Chinese (B3782-90127)			
– SSE Release Notes (B3782-90118)			
– SSE User's Guide (B3782-90114)			
<b>Hardcopy Documentation included with B3920BA opt. AAF (CD-ROM )</b>		N/A	
– Installing HP-UX 10.01 (B2355-90078)			
– Configuring HP-UX for Peripherals (B2355-90053)			
– Read Me Before Installing HP-UX 10.20			
– Release Notes (online only)			
<b>Series 800 HP-UX Version 10.20 Asian Localized Documentation</b>			
<b>HP-UX Version 10.20 Documentation</b>	B3921CA		
<b>General Usage Documentation (for general use of HP-UX and CDE)</b>		OBD	
– Using HP-UX (A1700-90014)			
– VUE Quick Start Card (B1171-90080)			
<b>Advanced Usage Documentation (for use of shells, text editors, and formatters)</b>		OBG	
– HP VUE 3.0 User's Guide (B1171-90079)			
– Keyshell Technical Addendum (B2355-90072)			
– Mail Systems: User's Guide (B1862-90012)			
– Number Processing: User's Guide (B1862-90015)			
– Shells: User's Guide (B2355-90046)			
– Text Formatting: User's Guide (B1862-90014)			
– Text Processing: User's Guide (B1862-90016)			
– Terminal Control: User's Guide (B1862-90013)			
– Terminal Session Manager: User's Guide (B2351-90000)			
– Ultimate Guide to the VI and EX Text Editor (97005-90015)			
– Using the X Window System (B1171-90076)			
<b>System Administration Documentation (for system administration of HP-UX 10.20)</b>		OBE	
– Configuring HP-UX for Peripherals (B2355-90053)			
– DTC Device File Access Utilities and Telnet Port Identification (B1030-90002)			



Description	Product #	Opt #	Price
- HP-UX Reference (B2355-90052)			
- HP-UX System Administration Tasks (B2355-90079)			
- HP VUE 3.0 User's Guide (B1171-90079)			
- iFOR License Server Quick Start Card (B2355-90108)			
- Installing and Administering Internet Services (B2355-90110)			
- Installing and Administering LAN/9000 (B2355-90105)			
- Installing and Administering NFS Services (B1031-90000)			
- Installing and Updating to HP-UX 10.20 (B2355-90119)			
- Managing HP-UX Software with SD-UX (B2355-90107)			
- Managing NCS Software (011895-A02)			
- Networking Overview (B1029-90000)			
- Serial Line IP Protocols Quick Reference Guide (98194-90056)			
- SharedPrint/UX User and Administrator's Guide (B1171-90124)			
- Using Internet Services (B2355-90111)			
- Using Serial Line IP Protocols (98194-90051)			
- Using the X Window System (B1171-90076)			
<b>Programming Reference Documentation (for developing software on HP-UX 10.20)</b>		OBF	
- ADB Tutorial (92432-90006)			
- Assembly Language Reference Manual (92432-90008)			
- BSD Sockets Interface Programmer's Guide (B2355-90116)			
- BSD Sockets Quick Reference Guide (B2355-90095)			
- DLPI Programmer's Guide (B2355-90093)			
- HP-UX Documentation: What's Available and How to Order (B2355-90102)			
- HP-UX Reference (B2355-90052)			
- LLA Programmer and Migration Guide (98194-90053)			
- PA-RISC 1.1 Architecture and Instruction Set Reference Manual (09740-96032)			
- PA-RISC Architecture and Instruction Reference Card (09740-90027)			
- PA-RISC Procedures and Calling Conventions Manual (09740-96009)			
- Power Programming with RPCs (019715-A00)			
- POSIX Conformance Document (B2355-90049)			
- Programming on HP-UX (B2355-90652)			
- Programming with Threads on HP-UX (B2355-90060)			
- SCSI Driver Porting Guide for Series 800 (B3921-90008)			
- STREAMS/UX for the HP 9000 Reference Manual (J2237-90005)			
- XTI Programmer's Guide (B2355-90094)			
<b>HP DCE Documentation (for HP DCE administration and development)</b>		AVC	
- Guide to Writing DCE Applications (B3190-90029)			
- Introduction to OSF DCE (B3190-90046)			
- OSF DCE Command Reference (B3190-90063)			
- OSF DCE Administration Guide (B3190-90048)			
- OSF DCE Application Developer Guide Volume 1 (B3190-90038)			
- OSF DCE Application Developer Guide Volume 2 (B3190-90039)			
- OSF DCE Application Developer Guide Volume 3 (B3190-90040)			
- OSF DCE Application Developer Reference (B3190-90037)			
- OSF DCE DFS Administration Guide and Reference (B3190-90049)			
- OSF DCE GDS Administration Guide and Reference (B3190-90050)			
- Planning and Configuring HP DCE (B3190-90064)			
- Understanding DCE (B3190-90018)			
<b>CDE General Usage Documentation</b>		AVL	
- CDE Advanced User's and Systems Administrator's Guide (B1171-90102)			
- CDE User's Guide (B1171-90101)			
- HP CDE Getting Started Guide (B1171-90104)			
- HP CDE Quick Start Card (B1171-90103)			



Description	Product #	Opt #	Price
<b>Documentation on CD-ROM (Includes 1-user license-to-use with manuals from opt. OBD, OBG, OBE, and OBF. LaserROM/UX software is included.)</b>		UAT	
• <b>HP-UX Version 10.20 Documentation - Japanese</b>	B3921CJ		
<b>Japanese and English Manuals on CD-ROM</b>		UAT	
<b>System Administration Documentation (localized in Japanese)</b>		OBE	
– Configuring HP-UX for Peripherals (B2355-97053)			
– DTC Device Access Utilities and Telnet Port Identification (B1030-97002)			
– HP-UX Reference (B2355-97052)			
– iFOR License Server Quick Start Card (B2355-97108)			
– Install HP-UX 10.0 (B2355-97119)			
– Installing and Administering Internet Services (B2355-97110)			
– Installing and Administering LAN/9000 (98194-97105)			
– Installing and Administering NFS Services (B1031-97000)			
– Managing HP-UX Software with SD-UX (B2355-97107)			
– Managing NCS Software (B2387-91022)			
– Networking Overview (B1029-97000)			
– SharedPrint/UX Administration Guide (B2355-90103)			
– SLIP Quick Configuration Guide (98194-97054)			
– System Administration Tasks (B2355-97079)			
– Using Internet Services (B2355-97111)			
– Using SLIP Protocols (98194-97051)			
– Using the X Window System (B1171-90099)			
– HP VUE 3.0 User's Guide (B1171-90096)			
<b>General Usage Documentation (localized in Japanese)</b>		OBD	
– EGBridge Input Guide (B3782-90109)			
– JSE User's Guide (B3782-90111)			
– MNL-ATOK8 Input Guide (B3782-90108)			
– Using HP-UX (B3921-90001)			
– VJE Input Guide (B3782-90110)			
– HP VUE Quick Start (B1171-90090)			
– XJIM Input Guide (B3782-90107)			
<b>Japanese Only Documentation (Not available)</b>		ABJ	
Order B3921AJ opt OBE and OBD, or B3921AJ opt OBC			
<b>CDE General Usage Documentation</b>		AVL	
– CDE Advanced User's and Systems Administrator's Guide (B1171-90116)			
– CDE User's Guide (B1171-90112)			
– HP CDE Getting Started Guide (B1171-90114)			
– HP CDE Quick Start Card (B1171-90110)			
• <b>Series 800 HP-UX Version 10.20 Documentation - European</b>			
<b>Series 800 HP-UX Version 10.20 Documentation - French</b>	B3921CF		
<b>French Only Documentation (Manuals localized in French)</b>		ABF	
– HP VUE 3.5 User's Guide (B1171-95094) (Manuals localized in French)			
– Using HP-UX (A1703-90046) (Manuals localized in French)			
– HP VUE 3.5 Quick Start Card (B1171-95081) (Manuals localized in French)			
– HP-UX System Administration Tasks (B2355-95079)			
– Configuring HP-UX for Peripherals (B2355-95053)			
– Managing HP-UX Software with SD-UX (B2355-95107)			
<b>General Usage Documentation (Localized manual version is available)</b>		OBD	
– Using HP-UX (A1703-90046)			
– HP VUE Quick Start Card (B1171-95081)			
<b>System Administration Documentation</b>		OBE	
– HP VUE 3.5 User's Guide (B1171-95094) (Manuals localized in French)			
– HP-UX System Administration Tasks (B2355-95079) (Manuals localized in French)			
– Configuring HP-UX for Peripherals (B2355-95053) (Manuals localized in French)			
– Managing HP-UX Software with SD-UX (B2355-95107) (Manuals localized in French)			



Description	Product #	Opt #	Price
– DTC Device File Access Utilities and Telnet Identification (B1030-90002)			
– HP-UX Reference (B2355-90052)			
– iFOR License Server QuickStart Guide (B2355-90108)			
– Installing and Administering Internet Services (B2355-90110)			
– Installing and Administering LAN/9000 (B2355-90105)			
– Installing and Administering NFS Services (B1031-90000)			
– Installing and Updating HP-UX 10.20 (B2355- 90119)			
– Serial Line IP Protocol Quick Configuration Card (98194-90056)			
– Managing NCS Software (011895-A02)			
– Networking Overview (B1029-90000)			
– SharedPrint/UX User and Administrator's Guide (B1171-90124)			
– Software Using Serial Line IP Protocols (98194-90051)			
– Using Internet Services (B2355-90111)			
– Using the X Window System (B1171-90076)			
<b>CDE General Usage Documentation</b>		AVL	
– CDE Advanced User's and System Administrator's Guide (B1171-95102)			
– CDE User's Guide (B1171-95101)			
– CDE Getting Started Guide (B1171-95104)			
– CDE Tour (Quick Start Card) (B1171-95103)			
• <b>Series 800 HP-UX Version 10.20 Documentation - German</b>	B3921CD		
<b>German only documentation (Manuals localized in German)</b>		ABD	
– HP VUE 3.0 User's Guide (B1171-96095)			
– Using HP-UX (A1703-90047)			
– HP VUE 3.0 Quick Start Card (B1171-96082)			
– HP-UX System Administration Tasks (B2355-96079)			
– Configuring HP-UX for Peripherals (B2355-96053)			
– Managing HP-UX Software with SD-UX (B2355-96107)			
<b>General Usage Documentation (Manuals localized in German)</b>		OBD	
– Using HP-UX (A1703-90047)			
– HP VUE Quick Start Card (B1171-96082)			
<b>System Administration Documentation</b>		OBE	
– HP VUE 3.0 User's Guide (B1171-96095) (Manuals localized in German)			
– HP-UX System Administration Tasks (B2355-96079) (Manuals localized in German)			
– Configuring HP-UX for Peripherals (B2355-96053) (Manuals localized in German)			
– Managing HP-UX Software with SD-UX (B2355-96107) (Manuals localized in German)			
– DTC Device File Access Utilities and Telnet Identification (B1030-90002)			
– Installing and Administering Internet Services (B2355-90110)			
– Installing and Administering LAN/9000 (B2355-90105)			
– Installing and Administering NFS Services (B1031-90000)			
– Installing and Updating HP-UX 10.0 (B2355- 90119)			
– HP-UX Reference (B2355-90052)			
– Serial Line IP Protocol Quick Configuration Card (98194-90051)			
– Managing NCS Software (011895-A02)			
– Network Overview (B1029-90000)			
– SharedPrint/UX User and Administrator's Guide (B1171-90124)			
– Software Using Serial Line IP Protocols (98194-90051)			
– Using Internet Services (B2355-90111)			
– Using the X Window System (B1171-90076)			
<b>CDE General Usage Documentation</b>		AVL	
– CDE Advanced User's and System Administrator's Guide (B1171-96102)			
– CDE User's Guide (B1171-96101)			
– CDE Getting Started Guide (B1171-96104)			
– CDE Tour (QuickStart Card) (B1171-96103)			



**HP-UX 10.10 Documentation**

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>• <b>HP-UX 10.10 Media and Manuals (note that HP-UX 10.10 will be discontinued as of 6/30/99)</b></li> </ul>	B3920BA		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><b>Documentation included with HP-UX 10.10 Media (English)</b></li> </ul> </li> </ul>		ABA	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– Configuring HP-UX for Peripherals (B2355-90053)</li> <li>– HP-UX System Administration Task (B2355-90079)</li> <li>– Installing HP-UX 10.0 and Upgrading to 10.10 (B2355-90086)</li> <li>– Localized System Configuration Overview (B3782-90095)</li> <li>– Kermit Mailer Card (B2355-90063)</li> <li>– Read Me Before Installing HP-UX 10.10 (B3782-90074)</li> <li>– Release Notes (Online Only)</li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><b>Documentation included with HP-UX 10.10 Media (Japanese)</b></li> </ul> </li> </ul>		ABJ	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– ATOK8 Input Guide (B3782-90027)</li> <li>– Configuring HP-UX for Peripherals (B2355-97053)</li> <li>– EGBridge Input Guide (B3782-90028)</li> <li>– HP-UX Read Me (B3782-90080)</li> <li>– HP-UX Release Notes (B3782-90087)</li> <li>– HP-UX System Administration Tasks (B2355-97079)</li> <li>– HP XJIM Input Guide (B3782-90026)</li> <li>– Installing HP-UX 10.0 (B2355-97086)</li> <li>– JSE Release Notes (B3782-90087)</li> <li>– JSE User's Guide (B3782-90091)</li> <li>– Kermit Mailer Card - supplied in English (B2355-90063)</li> <li>– L10N Read Me Japanese (B3782-90086)</li> <li>– VJE Input Guide (B3782-90029)</li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><b>Documentation included with HP-UX 10.10 Media (Traditional Chinese)</b></li> </ul> </li> </ul>		AB0	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– Configuring HP-UX Peripherals - supplied in English (B2355-90053)</li> <li>– HP-UX Read Me (B3782-90082)</li> <li>– HP-UX System Administration Tasks - supplied in English (B2355-90079)</li> <li>– Installing HP-UX 10.0 - supplied in English (B2355-90086)</li> <li>– Kermit Mailer Card - supplied in English (B2355-90063)</li> <li>– L10N Read Me Traditional Chinese (B3782-90083)</li> <li>– TSE Release Notes (B3782-90090)</li> <li>– TSE User's Guide (B3782-90094)</li> <li>– VUE 3.0 User's Guide (B1171-90097)</li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><b>Documentation included with HP-UX 10.10 media (Korean)</b></li> </ul> </li> </ul>		AB1	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– Configuring HP-UX for Peripherals - supplied in English (B2355-90053)</li> <li>– HP-UX Read Me (B3782-90081)</li> <li>– HP-UX System Administration Tasks (B2355-94079)</li> <li>– Installing HP-UX 10.0 - supplied in English (B2355-90086)</li> <li>– Kermit Mailer Card - supplied in English (B2355-90063)</li> <li>– KSE Release Notes (B3782-90088)</li> <li>– KSE User's Guide (B3782-90092)</li> <li>– L10N Read Me Korean (B3782-90055)</li> <li>– MNL-VUE 3.0 Quick Start (B1171-90091)</li> <li>– VUE 3.0 User's Guide (B1171-90098)</li> <li>– XDevice User's Guide (B3782-90030)</li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li><b>Documentation included with HP-UX 10.10 Media (Simplified Chinese)</b></li> </ul> </li> </ul>		AB2	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– Configuring HP-UX for Peripherals - supplied in English (B2355-90053)</li> <li>– HP-UX Read Me - supplied in English (B3782-90074)</li> <li>– HP-UX System Administration Tasks - supplied in English (B2355-90079)</li> <li>– Installing HP-UX 10.0 - supplied in English (B2355-90086)</li> <li>– Kermit Mailer Card - supplied in English (B2355-90063)</li> <li>– L10N Read Me Simplified Chinese (B3782-90084)</li> <li>– SSE Release Notes (B3782-90089)</li> <li>– SSE User's Guide (B3782-90093)</li> </ul> </li> </ul>			





Description	Product #	Opt #	Price
<b>Hardcopy Documentation included with B3920BA opt. AAF (CD-ROM )</b>		AAF	
– Installing HP-UX 10.10 (B2355-90086)			
– Configuring HP-UX for Peripherals (B2355-90053)			
– Read Me Before Installing HP-UX 10.10 (B3892-90074)			
– Release Notes (online only)			
• <b>HP-UX Version 10.10 Documentation</b>	B3921BA		
<b>General Usage Documentation (for general use of HP-UX and HP VUE)</b>		OBD	
– Using HP-UX (A1700-90014)			
– HP VUE Quick Start Card (B1171-90080)			
<b>Advanced Usage Documentation (for use of shells, text editors, and formatters)</b>		OBG	
– HP VUE 3.0 User's Guide (B1171-90079)			
– Keyshell Technical Addendum (B2355-90072)			
– Mail Systems: User's Guide (B1862-90012)			
– Number Processing: User's Guide (B1862-90015)			
– Shells: User's Guide (B2355-90046)			
– Text Formatting: User's Guide (B1862-90014)			
– Text Processing: User's Guide (B1862-90016)			
– Terminal Control: User's Guide (B1862-90013)			
– Terminal Session Manager: User's Guide (B2351-90000)			
– Ultimate Guide to the VI and EX Text Editor (97005-90015)			
– Using the X Window System (B1171-90076)			
<b>System Administration Documentation (for system administration of HP-UX 10.10)</b>		OBE	
– Configuring HP-UX for Peripherals (B2355-90053)			
– DTC Device File Access Utilities and Telnet Port Identification (B1030-90002)			
– HP-UX Reference (B2355-90052)			
– HP-UX System Administration Tasks (B2355-90079)			
– HP VUE 3.0 User's Guide (B1171-90079)			
– iFOR License Server Quick Start Card (B2355-90091)			
– iFOR License Server Reference and Guides (B2355-90064)			
– Installing and Administering Internet Services (B2355-90100)			
– Installing and Administering LAN/9000 (98194-90057)			
– Installing and Administering NFS Services (B1031-90000)			
– Installing and Updating to HP-UX 10.10 (B2355-90086)			
– Managing HP-UX Software with SD-UX (B2355-90089)			
– Managing NCS Software (011895-A02)			
– Networking Overview (B1029-90000)			
– Serial Line IP Protocols Quick Reference Guide (98194-90056)			
– SharedPrint/UX User and Administrator's Guide (B1171-90124)			
– Using Internet Services (B2355-90101)			
– Using Serial Line IP Protocols (98194-90051)			
– Using the X Window System (B1171-90076)			
<b>Programming Reference Documentation (for developing software on HP-UX 10.10)</b>		OBF	
– ADB Tutorial (92432-90006)			
– Assembly Language Reference Manual (92432-90008)			
– BSD Sockets Interface Programmer's Guide (B2355-90092)			
– BSD Sockets Quick Reference Guide (B2355-90095)			
– DLPI Programmer's Guide (B2355-90093)			
– HP-UX Documentation: What's Available and How to Order (B2355-90102)			
– HP-UX Reference (B2355-90052)			
– LLA Programmer and Migration Guide (98194-90053)			
– NetIPC to BDS Sockets and DSCOPY to FTP (98194-90055)			
– PA-RISC 1.1 Architecture and Instruction Set Reference Manual (09740-96032)			
– PA-RISC Architecture and Instruction Reference Card (09740-90027)			
– PA-RISC Procedures and Calling Conventions Manual (09740-96009)			
– Power Programming with RPCs (019715-A00)			
– POSIX Conformance Document (B2355-90049)			
– Programming on HP-UX (B2355-90652)			



Description	Product #	Opt #	Price
– Programming with Threads on HP-UX (B2355-90060)			
– SCSI Driver Porting Guide for Series 800 (B3921-90008)			
– STREAMS/UX for the HP 9000 Reference Manual (J2237-90005)			
– XTI Programmer's Guide (B2355-90094)			
<b>HP DCE Documentation (for HP DCE administration and development)</b>		AVC	
– Guide to Writing DCE Applications (B3190-90029)			
– Introduction to OSF DCE (B3190-90046)			
– OSF DCE Command Reference (B3190-90047)			
– OSF DCE Administration Guide (B3190-90048)			
– OSF DCE Application Developer Guide Volume 1 (B3190-90038)			
– OSF DCE Application Developer Guide Volume 2 (B3190-90039)			
– OSF DCE Application Developer Guide Volume 3 (B3190-90040)			
– OSF DCE Application Developer Reference (B3190-90037)			
– OSF DCE DFS Administration Guide and Reference (B3190-90049)			
– OSF DCE GDS Administration Guide and Reference (B3190-90050)			
– Planning and Configuring HP DCE (B3190-90052)			
– Understanding DCE (B3190-90018)			
<b>CDE General Usage Documentation</b>		AVL	
– CDE Advanced User's and Systems Administrator's Guide (B1171-90102)			
– CDE User's Guide (B1171-90101)			
– HP CDE Getting Started Guide (B1171-90104)			
– HP CDE Quick Start Card (B1171-90103)			
<b>Documentation on CD-ROM (Includes an unlimited user license-to-use with manuals from opt. OBD, OBG, OBE, and OBF. LaserROM/UX software is included.)</b>		UAT	
<b>Series 800 HP-UX Version 10.10 Documentation - German</b>	B3921BD		
<b>German Only Documentation (Manuals localized in German)</b>		ABD	
– HP VUE 3.0 User's Guide (B1171-96095)			
– Using HP-UX (A1703-90047)			
– HP VUE 3.0 Quick Start Card (B1171-96082)			
– HP-UX System Administration Tasks (B2355-96079)			
– Configuring HP-UX for Peripherals (B2355-96053)			
– Managing HP-UX Software with SD-UX (B2355-96089)			
<b>General Usage Documentation (Manuals localized in German)</b>		OBD	
– Using HP-UX (A1703-90047)			
– HP VUE Quick Start Card (B1171-96082)			
<b>System Administration Documentation</b>		OBE	
– HP VUE 3.0 User's Guide (B1171-96095) (Manuals localized in German)			
– HP-UX System Administration Tasks (B2355-96079) (Manuals localized in German)			
– Configuring HP-UX for Peripherals (B2355-96053) (Manuals localized in German)			
– Managing HP-UX Software with SD-UX (B2355-96089) (Manuals localized in German)			
– DTC Device File Access Utilities and Telnet Identification (B1030-90002)			
– iFOR License Server Reference and Guide (B2355-90064)			
– Installing and Administering Internet Services (B2355-90100)			
– Installing and Administering LAN/9000 (98194-90057)			
– Installing and Administering NFS Services (B1031-90000)			
– Installing and Updating HP-UX 10.0 (B2355-90086)			
– HP-UX Reference (B2355-90052)			
– Serial Line IP Protocol Quick Configuration Card (98194-90056)			
– Managing NCS Software (011895-A02)			
– Network Overview (B1029-90000)			
– SharedPrint/UX User and Administrator's Guide (B1171-90124)			
– Software Using Serial Line IP Protocols (98194-90051)			
– iFOR License Server Quick Start Card (B2355-90091)			
– Using Internet Services (B2355-90101)			
– Using the X Window System (B1171-90076)			



Description	Product #	Opt #	Price
<b>CDE General Usage Documentation</b>		AVL	
– CDE Advanced User's and System Administrator's Guide (B1171-96102)			
– CDE User's Guide (B1171-96101)			
– CDE Getting Started Guide (B1171-96104)			
– CDE Tour (Quick Start Card) (B1171-96103)			
<b>Series 800 HP-UX Version 10.10 Asian Localized Documentation</b>			
• <b>Series 800 HP-UX Version 10.10 Documentation - French</b>	B3921BF		
<b>French Only Documentation (Manuals localized in French)</b>		ABF	
– HP VUE 3.5 User's Guide (B1171-95094) (Manuals localized in French)			
– Using HP-UX (A1703-90046) (Manuals localized in French)			
– HP VUE 3.5 Quick Start Card (B1171-95081) (Manuals localized in French)			
– HP-UX System Administration Tasks (B2355-95079)			
– Configuring HP-UX for Peripherals (B2355-95053)			
– Managing HP-UX Software with SD-UX (B2355-95089)			
<b>General Usage Documentation (Localized manual version is available)</b>		OBD	
– Using HP-UX (A1703-90046)			
– HP VUE Quick Start Card (B1171-95081)			
<b>System Administration Documentation</b>		OBE	
– HP VUE 3.5 User's Guide (B1171-95094) (Manuals localized in French)			
– HP-UX System Administration Tasks (B2355-95079) (Manuals localized in French)			
– Configuring HP-UX for Peripherals (B2355-95053) (Manuals localized in French)			
– Managing HP-UX Software with SD-UX (B2355-95089) (Manuals localized in French)			
– DTC Device File Access Utilities and Telnet Identification (B1030-90002)			
– HP-UX Reference (B2355-90052)			
– iFOR License Server Reference and Guide (B2355-90064)			
– iFOR License Server Quick Start Guide (B2355-90091)			
– Installing and Administering Internet Services (B2355-90100)			
– Installing and Administering LAN/9000 (98194-90057)			
– Installing and Administering NFS Services (B1031-90000)			
– Installing and Updating HP-UX 10.10 (B2355-90086)			
– Serial Line IP Protocol Quick Configuration Card (98194-90056)			
– Managing NCS Software (011895-A02)			
– Networking Overview (B1029-90000)			
– SharedPrint/UX User and Administrator's Guide (B1171-90124)			
– Software Using Serial Line IP Protocols (98194-90051)			
– Using Internet Services (B2355-90101)			
– Using the X-Window System (B1171-90076)			
<b>CDE General Usage Documentation</b>		AVL	
– CDE Advanced User's and System Administrator's Guide (B1171-95102)			
– CDE User's Guide (B1171-95101)			
– CDE Getting Started Guide (B1171-95104)			
– CDE Tour (Quick Start Card) (B1171-95103)			
• <b>HP-UX Version 10.10 Documentation - Japanese</b>	B3921BJ		
<b>Japanese and English Manuals on CD-ROM, Unlimited User License</b>		UAT	
<b>System Administration Documentation (Manuals localized in Japanese)</b>		OBE	
– Configuring HP-UX for Peripherals (B2355-97053)			
– DTC Device Access Utilities and Telnet Port Identification (B1030-97002)			
– HP-UX Reference (B2355-97052)			
– iFOR License Server Quick Start Card (B2355-97091)			
– iFOR License Server Reference and Guide (B2355-97092)			
– Install HP-UX 10.0 (B2355-97086)			
– Installing and Administering Internet Services (B2355-97100)			
– Installing and Administering LAN/9000 (98194-90057)			
– Installing and Administering NFS Services (B1031-97000)			
– Managing HP-UX Software with SD-UX (B2355-97089)			
– Managing NCS Software (B2387-91022)			



Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>- Networking Overview (B1029-97000)</li> <li>- SharedPrint/UX Administration Guide (B2355-90103)</li> <li>- SLIP Quick Configuration Guide (98194-97054)</li> <li>- System Administration Tasks (B2355-97079)</li> <li>- Using Internet Services (B2355-97101)</li> <li>- Using SLIP Protocols (98194-97051)</li> <li>- Using the X Window System (B1171-90099)</li> <li>- HP VUE 3.0 User's Guide (B1171-90096)</li> </ul>			
<b>General Usage Documentation (Manuals localized in Japanese)</b>		OBD	
<ul style="list-style-type: none"> <li>- EGBridge Input Guide (B3782-90028)</li> <li>- JSE User's Guide (B3782-90091)</li> <li>- MNL-ATOK8 Input Guide (B3782-90027)</li> <li>- Using HP-UX (B3921-90001)</li> <li>- VJE Input Guide (B3782-90029)</li> <li>- HP VUE Quick Start Card (B1171-90090)</li> <li>- XJIM Input Guide (B3782-90026)</li> </ul>			
<b>Japanese Only Documentation (Not available)</b>			
Order B3921AJ opt OBE and OBD, or B3921AJ opt OBC			
<b>CDE General Usage Documentation</b>		AVL	
<ul style="list-style-type: none"> <li>- CDE Advanced User's and Systems Administrator's Guide (B1171-90116)</li> <li>- CDE User's Guide (B1171-90112)</li> <li>- HP CDE Getting Started Guide (B1171-90114)</li> <li>- HP CDE Quick Start Card (B1171-90110)</li> </ul>			

**HP-UX 10.01 Documentation**

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>• <b>Minimal System Administration Documentation List for HP-UX 10.01</b></li> </ul>	B3920AA		
<ul style="list-style-type: none"> <li>Documentation included with HP-UX 10.01 media (English) <ul style="list-style-type: none"> <li>- Configuring HP-UX for Peripherals (B2355-90053)</li> <li>- HP-UX System Administration Task (B2355-90079)</li> <li>- Installing HP-UX 10.0 and Upgrading to 10.01 (B2355-90078)</li> <li>- Localized System Configuration Overview (B3782-90064)</li> <li>- Kermit Mailer Card (B2355-90063)</li> <li>- Read Me Before Installing HP-UX 10.01 (B3782-90049)</li> <li>- Release Notes (Online Only)</li> </ul> </li> </ul>		ABA	
<b>Documentation included with HP-UX 10.01 Media (Japanese)</b>		ABJ	
<ul style="list-style-type: none"> <li>- 9.x/10.x Interoperability Guide (5964-1383)</li> <li>- ATOK8 Input Guide (B3782-90027)</li> <li>- Configuring HP-UX Peripherals (B2355-97053)</li> <li>- EGBridge Input Guide (B3782-90028)</li> <li>- HP-UX Read Me (B3782-90050)</li> <li>- HP-UX Release Notes (B3782-90062)</li> <li>- HP-UX System Administration Tasks (B2355-97079)</li> <li>- HP XJIM Input Guide (B3782-90026)</li> <li>- Installing HP-UX 10.0 (B2355-97078)</li> <li>- JSE Release Notes (B3782-90063)</li> <li>- JSE User's Guide (B3782-90069)</li> <li>- Kermit Mailer Card - supplied in English (B2355-90063)</li> <li>- L10N Read Me Japanese (B3782-90054)</li> <li>- Read Me Before Preparing for Upgrade (B3782-90100)</li> <li>- Upgrading HP-UX 9.x to 10.x (B3782-90099)</li> <li>- VJE Input Guide (B3782-90029)</li> </ul>			
<b>Documentation included with HP-UX 10.01 Media (Traditional Chinese)</b>		ABO	
<ul style="list-style-type: none"> <li>- 9.x/10.x Interoperability Guide - supplied in English (5964-1370)</li> </ul>			



Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>- Configuring HP-UX for Peripherals - supplied in English (B2355-90053)</li> <li>- HP-UX Read Me (B3782-90056)</li> <li>- HP-UX System Administration Tasks - supplied in English (B2355-90079)</li> <li>- Installing HP-UX 10.0 - supplied in English (B2355-90078)</li> <li>- Kermit Mailer Card - supplied in English (B2355-90063)</li> <li>- L10N Read Me Traditional Chinese (B3782-90052)</li> <li>- Read Me Before Preparing for Upgrade - supplied in English (B3782-90076)</li> <li>- TSE Release Notes (B3782-90067)</li> <li>- TSE User's Guide (B3782-90071)</li> <li>- Upgrading HP-UX 9.x to 10.x - supplied in English (B3782-90073)</li> <li>- HP VUE 3.0 User's Guide (B1171-90097)</li> </ul>			
<b>Documentation included with HP-UX 10.01Media (Korean)</b>		AB1	
<ul style="list-style-type: none"> <li>- 9.x/10.x Interoperability Guide - supplied in English (5964-1370)</li> <li>- Configuring HP-UX for Peripherals - supplied in English (B2355-90053)</li> <li>- HP-UX Read Me (B3782-90051)</li> <li>- HP-UX System Administration Tasks (B2355-94079)</li> <li>- Installing HP-UX 10.0 - supplied in English (B2355-90078)</li> <li>- Kermit Mailer Card - supplied in English (B2355-90063)</li> <li>- KSE Release Notes (B3782-90058)</li> <li>- KSE User's Guide (B3782-90070)</li> <li>- L10N Read Me Korean (B3782-90055)</li> <li>- MNL-VUE 3.0 Quick Start (B1171-90091)</li> <li>- Read Me Before Preparing for Upgrade - supplied in English (B3782-90076)</li> <li>- Upgrading HP-UX 9.x to 10.x - supplied in English (B3782-90073)</li> <li>- HP VUE 3.0 User's Guide (B1171-90098)</li> <li>- XDevice User's Guide (B3782-90030)</li> </ul>			
<b>Documentation included with HP-UX 10.01 Media (Simplified Chinese)</b>		AB2	
<ul style="list-style-type: none"> <li>- 9.x/10.x Interoperability Guide - supplied in English (5964-1370)</li> <li>- Configuring HP-UX for Peripherals - supplied in English (B2355-90053)</li> <li>- HP-UX Read Me - supplied in English (B3782-90049)</li> <li>- HP-UX System Administration Tasks - supplied in English (B2355-90079)</li> <li>- Installing HP-UX 10.0 - supplied in English (B2355-90078)</li> <li>- Kermit Mailer Card - supplied in English (B2355-90063)</li> <li>- L10N Read Me Simplified Chinese (B3782-90059)</li> <li>- Read Me Before Preparing for Upgrade - supplied in English (B3782-90076)</li> <li>- SSE Release Notes (B3782-90066)</li> <li>- SSE User's Guide (B3782-90072)</li> <li>- Upgrading HP-UX 9.x to 10.x - supplied in English (B3782-90073)</li> </ul>			
<b>Hardcopy Documentation included with B3920AA opt. AAF (CD-ROM )</b>		AAF	
<ul style="list-style-type: none"> <li>- Installing HP-UX 10.01 (B2355-90078)</li> <li>- Configuring HP-UX for Peripherals (B2355-90053)</li> <li>- Read Me Before Installing HP-UX 10.01 (B3782-90049)</li> <li>- Release Notes (online only)</li> </ul>			
<b>HP-UX Version 10.01 Documentation</b>	B3921AA		
<b>General Usage Documentation (for general use of HP-UX and HP VUE)</b>		OBD	
<ul style="list-style-type: none"> <li>- Using HP-UX (A1700-90014)</li> <li>- HP VUE Quick Start Card (B1171-90080)</li> </ul>			
<b>Advanced Usage Documentation (for use of shells, text editors, and formatters)</b>		OBG	
<ul style="list-style-type: none"> <li>- HP VUE 3.0 User's Guide (B1171-90079)</li> <li>- Keyshell Technical Addendum (B2355-90072)</li> <li>- Mail Systems: User's Guide (B1862-90012)</li> <li>- Number Processing: User's Guide (B1862-90015)</li> <li>- Shells: User's Guide (B2355-90046)</li> <li>- Text Formatting: User's Guide (B1862-90014)</li> <li>- Text Processing: User's Guide (B1862-90016)</li> <li>- Terminal Control: User's Guide (B1862-90013)</li> <li>- Terminal Session Manager: User's Guide (B2351-90000)</li> </ul>			



Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>- Ultimate Guide to the VI and EX Text Editor (97005-90015)</li> <li>- Using the X Window System (B1171-90076)</li> </ul>			
<b>System Administration Documentation (for system administration of HP-UX 10.01)</b>		OBE	
<ul style="list-style-type: none"> <li>- 9.x/10.x Interoperability Guide (5963-8920)</li> <li>- Configuring HP-UX for Peripherals (B2355-90053)</li> <li>- DTC Device File Access Utilities and Telnet Port Identification (B1030-90002)</li> <li>- HP-UX Reference (B2355-90052)</li> <li>- HP-UX System Administration Tasks (B2355-90079)</li> <li>- HP VUE 3.0 User's Guide (B1171-90079)</li> <li>- iFOR License Server Reference and Guides (B2355-90064)</li> <li>- Installing and Administering Internet Services (B1031-90000)</li> <li>- Installing and Administering LAN/9000 (98194-90057)</li> <li>- Installing and Administering NFS Services (B1030-90000)</li> <li>- Installing HP-UX 10.0 and upgrading to 10.01 (B2355-90078)</li> <li>- Managing HP-UX Software with SD-UX (B2355-90080)</li> <li>- Managing NCS Software (011895-A02)</li> <li>- Networking Overview (B1029-90000)</li> <li>- Serial Line IP Protocols Quick Reference Guide (98194-90056)</li> <li>- SharedPrint/UX User and Administrator's Guide (B3242-90602)</li> <li>- Using Internet Services (B1030-90001)</li> <li>- Using Serial Line IP Protocols (98194-90051)</li> <li>- Using the X Window System (B1171-90076)</li> </ul>			
<b>Programming Reference Documentation (for developing software on HP-UX 10.01)</b>		OBF	
<ul style="list-style-type: none"> <li>- ADB Tutorial (92432-90006)</li> <li>- Assembly Language Reference Manual (92432-90008)</li> <li>- BSD Sockets Interface Programmer's Guide (98194-90052)</li> <li>- Consolidated Book Publisher List (B2355-90085)</li> <li>- DLPI Programmer's Guide (98194-90059)</li> <li>- LLA Programmer and Migration Guide (98194-90053)</li> <li>- Migration Guide Letter DLPI Programmer's Guide (98194-90054)</li> <li>- NetIPC to BDS Sockets and DSCOPY to FTP (98194-90055)</li> <li>- PA-RISC 1.1 Architecture and Instruction Set Reference Manual (09740-96032)</li> <li>- PA-RISC Architecture and Instruction Reference Card (09740-90027)</li> <li>- PA-RISC Procedures and Calling Conventions Manual (09740-96009)</li> <li>- POSIX Conformance Document (B2355-90049)</li> <li>- Programming on HP-UX (B2355-90052)</li> <li>- Programming with Threads on HP-UX (B2355-90060)</li> <li>- STREAMS/UX for the HP 9000 Reference Manual (J2237-90005)</li> <li>- XTI Programmer's Guide (B2355-90074)</li> </ul>			
<b>HP DCE Documentation (for HP DCE administration and development)</b>		AVC	
<ul style="list-style-type: none"> <li>- DCE Application Environment Specification (B3190-90011)</li> <li>- Guide to Writing DCE Applications (B3190-90029)</li> <li>- Introduction to DCE (B3190-90005)</li> <li>- OSF DCE Administration Guide "Core Components" (B3190-90034)</li> <li>- OSF DCE Administration Guide "Extended Services" (B3190-90035)</li> <li>- OSF DCE Administration Reference (B3190-90033)</li> <li>- OSF DCE Application Development Guide (B3190-90036)</li> <li>- OSF DCE Application Development Reference (B3190-90032)</li> <li>- OSF DCE User's Guide and Reference (B3190-90017)</li> <li>- Planning and Configuring HP DCE (B3190-90030)</li> <li>- Understanding DCE (B3190-90018)</li> </ul>			
<b>Documentation on CD-ROM (Includes 1-user license-to-use with manuals from opt. OBD, OBG, OBE, and OBF. LaserROM/UX software is included.)</b>		OBC	
<b>4-user add-on for CD-ROM Documentation</b> (provides license-to-use for four additional users of CD-ROM documentation access software.)		UA2	



Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>• <b>Series 800 HP-UX Version 10.01 Documentation - German</b></li> </ul>	B3921AD		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• <b>German Only Documentation (Manuals localized in German)</b></li> </ul> </li> </ul>		ABD	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– HP VUE 3.0 User's Guide (B1171-96095)</li> <li>– Using HP-UX (A1703-90047)</li> <li>– HP VUE 3.0 Quick Start Card (B1171-96082)</li> <li>– HP-UX System Administration Tasks (B2355-96079)</li> <li>– Configuring HP-UX for Peripherals (B2355-96053)</li> <li>– Managing HP-UX Software with SD-UX (B2355-96080)</li> </ul> </li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• <b>General Usage Documentation (Manuals localized in German)</b></li> </ul> </li> </ul>		OBD	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– Using HP-UX (A1703-90047)</li> <li>– HP VUE Quick Start Card (B1171-96082)</li> </ul> </li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• <b>System Administration Documentation</b></li> </ul> </li> </ul>		OBE	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– HP VUE 3.0 User's Guide (B1171-96095) (Manuals localized in German)</li> <li>– HP-UX System Administration Tasks (B2355-96079) (Manuals localized in German)</li> <li>– Configuring HP-UX for Peripherals (B2355-96053) (Manuals localized in German)</li> <li>– Managing HP-UX Software with SD-UX (B2355-96080) (Manuals localized in German)</li> <li>– DTC Device File Access Utilities and Telnet Identification (B1030-90002)</li> <li>– iFOR License Server Reference and Guide (B2355-90064)</li> <li>– Installing and Administering Internet Services (B1030-90000)</li> <li>– Installing and Administering LAN/9000 (98194-90057)</li> <li>– Installing and Administering NFS Services (B1031-90000)</li> <li>– Installing and Updating HP-UX 10.0 (B2355- 90078)</li> <li>– 9.x/10.x Interoperability Guide (5963-8920)</li> <li>– HP-UX Reference (B2355-90052)</li> <li>– Managing NCS Software (011895-A02)</li> <li>– Network Overview (B1029-90000)</li> <li>– SharedPrint/UX User's and Administrator's Guide (B3242-90602)</li> <li>– Software Using Serial Line IP Protocols (98194-90051)</li> <li>– Using Internet Services (B1030-90001)</li> <li>– Using the X Window System (B1171-90076)</li> </ul> </li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• <b>Series 800 HP-UX Version 10.01 Documentation - European</b></li> </ul> </li> </ul>	B3921AF		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• <b>Series 800 HP-UX Version 10.01 Documentation - French</b></li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• <b>French Only Documentation (Manuals localized in French)</b></li> </ul> </li> </ul>		ABF	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– HP VUE 3.0 User's Guide (B1171-95094) (Manuals localized in French)</li> <li>– Using HP-UX (A1703-90046) (Manuals localized in French)</li> <li>– HP VUE 3.0 Quick Start Card (B1171-95081) (Manuals localized in French)</li> <li>– HP-UX System Administration Tasks (B2355-95079)</li> <li>– Configuring HP-UX for Peripherals (B2355-95053)</li> <li>– Managing HP-UX Software with SD-UX (B2355-95080)</li> </ul> </li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• <b>General Usage Documentation (Localized manual version is available)</b></li> </ul> </li> </ul>		OBD	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– Using HP-UX (A1703-90046)</li> <li>– VUE Quick Start Card (B1171-95081)</li> </ul> </li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• <b>System Administration Documentation</b></li> </ul> </li> </ul>		OBE	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>– HP VUE 3.0 User's Guide (B1171-95094) (Manuals localized in French)</li> <li>– HP-UX System Administration Tasks (B2355-95079) (Manuals localized in French)</li> <li>– Configuring HP-UX for Peripherals (B2355-95053) (Manuals localized in French)</li> <li>– Managing HP-UX Software with SD-UX (B2355-95080) (Manuals localized in French)</li> <li>– DTC Device File Access Utilities and Telnet Identification (B1030-90002)</li> <li>– iFOR License Server Reference and Guide (B2355-90064)</li> <li>– Installing and Administering Internet Services (B1030-90001)</li> <li>– Installing and Administering LAN/9000 (98194-90057)</li> <li>– Installing and Administering NFS Services (B1030-90000)</li> <li>– Installing HP-UX 10.0 (B2355- 90078)</li> <li>– 9.x/10.x Interoperability Guide (5963-8920)</li> <li>– HP-UX Reference (B2355-90052)</li> <li>– Managing NCS Software (011895-A02)</li> </ul> </li> </ul> </li> </ul>			



	Description	Product #	Opt #	Price
	– Networking Overview (B1029-90000)			
	– SharedPrint/UX User's and Administrator's Guide (B3242-90602)			
	– Software Using Serial Line IP Protocols (98194-90051)			
	– Using Internet Services (B1030-90001)			
	– Using the X Window System (B1171-90076)			
	<b>Series 800 HP-UX Version 10.01 Asian Localized Documentation</b>			
•	<b>HP-UX Version 10.01 Documentation - Japanese</b>	B3921AJ		
	<b>Japanese and English Manuals on CD-ROM</b>		OBC	
	<b>Additional 4-User License for LaserROM</b>			
	<b>System Administration Documentation (Manuals localized in Japanese)</b>		OBE	
	– 9.x/10.x Interoperability Guide (B3782-90061)			
	– Configuring HP-UX for Peripherals (B2355-97053)			
	– DTC Device Access Utilities and Telnet Port Identification (B1030-97002)			
	– HP-UX Reference (B2355-97052)			
	– iFOR License Server Reference and Guide (B2355-97064)			
	– Install HP-UX 10.0 (B2355-97078)			
	– Installing and Administering Internet Services (B1030-97000)			
	– Installing and Administering LAN/9000 (98194-97052)			
	– Installing and Administering NFS Services (B1031-97000)			
	– Managing HP-UX Software with SD-UX (B2355-97080)			
	– Managing NCS Software (B2387-91022)			
	– Networking Overview (B1029-97000)			
	– SharedPrint/UX Administration Guide (B3242-91602)			
	– SLIP Quick Configuration Guide (98194-97054)			
	– System Administration Tasks (B2355-97079)			
	– Using Internet Services (B1030-97001)			
	– Using SLIP Protocols (98194-97051)			
	– Using the X Window System (B1171-90099)			
	– HP VUE 3.0 User's Guide (B1171-90096)			
	<b>General Usage Documentation (Manuals localized in Japanese)</b>		OBD	
	– EGBridge Input Guide (B3782-90028)			
	– JSE User's Guide (B3782-90069)			
	– MNL-ATOK8 Input Guide (B3782-90027)			
	– Using HP-UX (B3921-90001)			
	– VJE Input Guide (B3782-90029)			
	– HP VUE Quick Start Card (B1171-90090)			
	– XJIM Input Guide (B3782-90026)			
	<b>Japanese Only Documentation</b>			
	<b>Order B3921AJ opt OBE and OBD, or B3921AJ opt OBC</b>			
	<b>Series 800 HP-UX 10.01 Documentation - Korean</b>			

**Asian System Environment (ASE) for HP-UX**

	Description	Product #	Opt #	Price
•	<b>Asian System Environment (ASE) for HP-UX 10.x</b>	B1520AA		
	Provides user-level licenses and media of Series 800 Asian System Environment (ASE) which offers Asian-specific input and output features. ASE license must be ordered when a customer in a country other than Japan, Korea, Taiwan, and China uses ASE; when a customer in Japan, Korea, Taiwan, or China uses ASE for another language; or when a customer who has an old ASE license, but is not on update service, uses the latest ASE. ASE license is necessary by language. AAH and AAF must be ordered simultaneously with one of the UAx options. One of the UBx options may be ordered when upgrading. One of the APx options must be ordered. One of the ABx options must be ordered. HP-UX 11.00		UM4	





Description	Product #	Opt #	Price
HP-UX 10.20		APZ	
HP-UX 10.10		APX	
Japanese		ABJ	
Traditional Chinese		AB0	
Korean		AB1	
Simplified Chinese		AB2	
2-user license		UA1	
8-user license		UA3	
16-user license		UA5	
32-user license		UA7	
64-user license		UA9	
Unlimited user license		UAT	
Upgrade credit for 2-user license		UB1	
Upgrade credit for 8-user license		UB3	
Upgrade credit for 16-user license		UB5	
Upgrade credit for 32-user license		UB7	
Upgrade credit for 64-user license		UB9	
<b>CD-ROM</b>		AAF	
Provides an ASE CD-ROM for a language selected by ABx and ASE manuals written in selected ABx's language. AAF must be ordered simultaneously with one of the UAx options.			

### Application CD-ROM Media

Description	Product #	Opt #	Price
◆ <i>Order when purchasing new software for an existing system. See Availability Matrix to determine which Application products are mapped to specific versions of the Application CD-ROM. See Chapter 5 for more details on the Availability Matrix.</i>			
• HP-UX 10.01 Server Application CD-ROM Media	[ ] B5149AA		
• HP-UX 10.10 Server Application CD-ROM Media (note that HP-UX 10.10 will be discontinued as of 6/30/99)	[ ] B5181AA		
• HP-UX 10.20 Server Application CD-ROM Media	[ ] B5448AA		
• HP-UX 11.00 Server Application CD-ROM Media	[ ] B6201AA		

### Internet Stack for HP-UX

This section of the ordering guide lists products that have internet-related functionality for HP-UX 11.00. All of these products are listed elsewhere in this Ordering Guide. They have been listed here together in order to list all of the internet-related products in one place and to help simplify the processes of determining what is available and what is needed. Below are brief descriptions of each product:

Java JDK - Java language developer's kit

Java VM - Java Virtual Machine

Netscape LDAP Lite - no charge version of Netscape Directory Services

Netscape Directory Services - full-featured version of Netscape Directory Services, available in international and US/Canada encryption versions

Netscape FastTrack Server - no charge version of Netscape Web Server

Netscape Enterprise Server - full-featured version Netscape Web Server

CDSA Framework - Common Data Security Architecture

IPSec - IP Security, available in worldwide and US/Canada encryption versions

WebQoS Peak - no charge version of WebQoS, handles peak internet loads

WebQoS Premium - full-featured version of WebQoS

Zeus Web Server - web server available in both no charge (lite) and full-featured version



Base internet functionality consists of Java VM, Web Server, WebQoS Peak, and directory services. For development of Java applications add Java JDK. For implementation of secure Virtual Private Networks (VPN) and secure applications, add IPSec and CDSA.

Description	Product#	Opt#	Price
• HP-UX 11, order option OD1 for instant ignition	B3919EA	UM4	
• IPSec/9000 (WW)	J4255AA		
• IPSec/9000 (US/Canada)	J4256AA		
• Java JDK, order option OD1 for instant ignition	B5456CA		
• Java VM, order option OD1 for instant ignition	B5458DA		
• Netscape LDAP Lite –	J4257AA		
• Netscape Directory Services (International Version)	J4258AA		
• Netscape Directory Services (US/Canada)	J4264AA		
• Netscape FastTrack Server – instantly ignitable as of Dec. 1, 1999	J1607CA		
• Netscape Enterprise Server, order option OD1 for instant ignition	J3641DA		
• CDSA (framework) –, order option OD1 for instant ignition	J4262AA		
• ww importable 40 bit encryption for CDSA	J4261AA		
• Web QoS Peak, order option OD1 for instant ignition	J4274AA		
• Zeus Web Server Lite – instantly ignitable as of Dec. 1, 1999	J4272AA		
• Zeus Web Server Full	B8701AA		

Note: Ordering the OD1 option for instant ignition causes the product to be preloaded on the server as part of the manufacturing process.

## Bundled Communication Products

### X.400

Description	Product #	Opt #	Price
• <b>HP X.400 for Series 800</b>	32032A		
Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370		AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
Version Options (Choose one)			
HP-UX 10.01		APS	
HP-UX 9.0		APH	
Media Options (Choose one)			
1/2-inch magnetic tape (HP-UX 9.0 only)		AA1	
DDS DAT cartridge		AAH	
QIC cartridge		AA4	
CD-ROM certificate only		AAU	
Add Japanese manuals (HP-UX 9.0 only)		ABJ	

### OSI Transport Services/9000

Description	Product #	Opt #	Price
• <b>OSI Transport Services/9000 for Series 800</b>	32070B		
STREAMS/UX (J2237A) is required to run this product on HP-UX 9.0.			
Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370		AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	



Description	Product #	Opt #	Price
• <b>OSI Transport Services/9000 for Series 700</b>	J2160B		
• OSI Transport Services Manuals for HP-UX 10.01 and 10.10	J1634AA		
• OSI Transport Services Manuals for HP-UX 10.20	J1635AA		
• OSI Transport Services Manuals for HP-UX 10.30	J1636AA		

**FTAM**

Description	Product #	Opt #	Price
• <b>FTAM/9000</b>	B1033B		
Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370		AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
• <b>FTAM/9000 for the Series 700 Workstation</b>	J2163B		
• FTAM/9000 Manuals for HP-UX 10.01 and 10.20 Servers & Workstations	J1624AA		
• FTAM/9000 Manuals for HP-UX 10.10 Servers & Workstations	J1633AA		
• FTAM/9000 Manuals for HP-UX 10.30 Servers & Workstations	J1625AA		

**EPS/MCSS Interconnect**

Description	Product #	Opt #	Price
• <b>HyperFabric</b>			
• HyperFabric card for K-Class	A4920A		
Factory integration		OD1	
Release note		AVN	
• HyperFabric card for D-, and R-Class	A4921A		
Factory integration		OD1	
Release note		AVN	
• HyperFabric card for V-, and N-Class	A4919A		
Factory integration		OD1	
Release note		AVN	
HyperFabric Enterprise switch	A4891A		
HyperFabric cables	A4892A		
35 ft cable		800	
60 ft. cable		801	
• <b>Fibre Channel Adapter, Model 266 for K-Class</b>	A3406A		
Factory installation		OD1	
2-meter fiber optic cable		AF2	
16-meter fiber optic cable		AFY	
• <b>Fibre Channel Adapter, Model 266 System License</b>	J2635BA		
Order one license per server			
• <b>HP Enterprise Switch, Model 266, Fibre Channel Fabric</b>	A3502A		
Standalone switch with rackmount kit for field installation into a cabinet. Only for use with HP EPS Solutions (EPS2X).			
4-port switch		001	
8-port switch		002	
12-port switch		003	
16-port switch		004	
• <b>HP Enterprise Switch 4-port Channel Modules</b>	A3552A		



**SNA Products**

Description	Product #	Opt #	Price
<b>• SNAplus2 Link Server License</b>			
Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370	J2720BA	AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
Instant Ignition		OD1	
Release Note		AVN	
<b>SNAplus2 Link Interface Cards</b> <b>See J2792A and J2794A products listed above</b>			
<b>• SNAplus2 APPN End-Node Server License</b>			
Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370	J2721BA	AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
Instant Ignition		OD1	
Release Note		AVN	
<b>• SNAplus2 3270/3179G Server License</b>			
Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370	J2722BA	AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
Instant Ignition		OD1	
Release Note		AVN	
<b>• SNAplus2 RJE Server License</b>			
Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370	J2723BA	AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
Instant Ignition		OD1	
Release Note		AVN	
<b>• SNAplus2 API Server License</b>			
Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370	J2724BA	AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
Instant Ignition		OD1	
Release Note		AVN	



**TN3270**

	Description	Product #	Opt #	Price
•	<b>TN3270 System License Series 800 (Must order one per system running this product.)</b>	J2636BA		
	(Requires HP-UX 10.01 or later.)			
	Workstation		AHN	
	Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370		AH0	
	Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
	Tier 3 – T500, T520, T600, 890, V-Class		AEP	
	Upgrade credit for Tier 1		OGR	
	Upgrade credit for Tier 2		OC8	
	Release Note		AVN	
•	<b>TN3270 Manuals Series 700 and Series 800</b>	J2656AA		
	Standard manual set		011	
	TN3270 HLLAPI Programmer's Guide		013	

**Microsoft Networking**

**Advanced Server/9000**

	Description	Product #	Opt #	Price
•	<b>Advanced Server/9000 for HP 9000 Enterprise Servers License</b>	J2715BA		
	The maximum number of connections supported is 1024.			
•	<b>Advanced Server/9000 10.01/10.10, 10.20</b>	J1623AA		
	Documentation for server and workstations			
•	<b>Advanced Server/9000 Enterprise Workstation License</b>	J2714BA		
	Base License Options:			
	These licenses are for initial purchases of Advanced Server/9000 for a system. Order only one per system.			
	Free 4-user, full-featured version. Requires AR-CD (no need to order 4-user version on AR-CD)		Try	
	64-user license		UA9	
	256-user license		UAD	
	1024-user license		UCR	
	License Addition Options:			
	These license additions are for customers adding more users to previous purchased J2714BA license			
	64-user license		104	
	256-user license		106	
•	Free 4-user, full-featured version (available on the web @www.software.hp.com)	J2714BAE	Try	
•	<b>Advanced Server/9000 Enterprise Server License</b>	J2715BA		
	Base License Options:			
	These licenses are for initial purchases of Advanced Server/9000 for a system. Order only one per system.			
	Free 4-user, full-featured version. Requires AR-CD (no need to order 4-user version on AR-CD)		Try	
	Free 4-user, full-featured version (available on the web @www.software.hp.com)		A6Z	
	64-user license		UA9	
	256-user license		UAD	
	1024-user license		UCR	
	License Addition Options:			
	These license additions are for customers adding more users to previous purchased J2714BA license			
	64-user license		104	
	256-user license		106	
•	Free 4-user, full-featured version (available on the web @www.software.hp.com)	J2715BAE	Try	

## Subchapter 6.2—High Availability

### MC/ServiceGuard

Description	Product #	Opt #	Price
<b>HP MC/ServiceGuard License</b>			
Enterprise cluster software that allows multiple nodes to cooperate in order to eliminate or reduce application downtime. Must order one copy per SPU. Must specify tier and Localization option. Services consulting required for first installation at each customer.			
• <b>MC/ServiceGuard License to Use for 10.20 Release</b>	B3935CA		
• <b>MC/ServiceGuard License to Use for 11.X Release</b>	B3935DA		
Tier 1 – A-Class, D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370, L-Class		AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570, N-Class		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
English Localization		ABA	
Japanese Localization		ABJ	
Korean Localization		AB1	
Taiwan (Chinese) Localization		AB0	
China (Traditional Chinese) Localization		AB2	
Other countries/regions		ABA	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
Credit for upgrade from SwitchOver Tier 1		101	
Credit for upgrade from SwitchOver Tier 2		102	
Credit for upgrade from SwitchOver Tier 3		103	
Instant Ignition		OD1	
<b>HP MC/ServiceGuard manual</b>			
• <b>MC/ServiceGuard manual for 10.20 Release</b>	B3936DA		
• <b>MC/ServiceGuard manual for 11.X Release</b>	B3936EA		
English manual		ABA	
Japanese manual		ABJ	
Korean documentation		AB1	
Taiwan (Chinese) documentation		AB0	
China (Traditional Chinese) documentation		AB2	
Other countries/regions		ABA	
<b>HP MC/ServiceGuard Database (Enterprise Cluster Master) Toolkit License</b>			
• <b>Enterprise Cluster Master Toolkit for 10.20 Release</b>	B5139CA		
• <b>Enterprise Cluster Master Toolkit for 11.X Release</b>	B5139DA		
Instant Ignition		OD1	
<b>HP MC/ServiceGuard NFS Toolkit License</b>			
• <b>HP MC/ServiceGuard NFS Toolkit License</b>	B5140BA		
Instant Ignition		OD1	

### ServiceGuard OPS Edition

Description	Product #	Opt #	Price
<b>HP ServiceGuard OPS Edition License for One Node</b>			
Enterprise cluster software for Oracle Parallel Server (OPS) that allows nodes to cooperate in order to eliminate or reduce application downtime and to enhance scalability. Must order one copy per SPU. Must specify tier and localization option. Order OPS separately from Oracle Corporation. Services consulting required for first installation at each customer.			
• <b>ServiceGuard OPS Edition for 10.20 Release</b>	B5161DA		
• <b>ServiceGuard OPS Edition for 11.X Release</b>	B5161EA		
Tier 1 – A-Class, D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370, L-Class		AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570, N-Class		AE5	



Description	Product #	Opt #	Price
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
English Localization		ABA	
Japanese Localization		ABJ	
Korean Localization		AB1	
Taiwan (Chinese) Localization		AB0	
China (Traditional Chinese) Localization		AB2	
Other countries/regions		ABA	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
Credit for upgrade from SwitchOver Tier 1		101	
Credit for upgrade from SwitchOver Tier 2		102	
Credit for upgrade from SwitchOver Tier 3		103	
Instant Ignition		OD1	
<b>HP ServiceGuard OPS Edition Manuals</b>			
• ServiceGuard OPS Edition manual for 10.20 Release	B5158DA		
• ServiceGuard OPS Edition manual for 11.X Release	B5158EA		
English manual		ABA	
Japanese manual		ABJ	
Korean documentation		AB1	
Taiwan (Chinese) documentation		AB0	
China (Traditional Chinese) documentation		AB2	
Other countries/regions		ABA	

## ServiceGuard Manager

Description	Product #	Opt #	Price
ServiceGuard Manager is available for download from <a href="http://www.software.hp.com">www.software.hp.com</a> and will be shipped out with each MC/ServiceGuard or ServiceGuard OPS Edition order.			
Requires connection to a Cluster Object Manager delivered with MC/ServiceGuard 11.12. Clusters will be displayed with MC/ServiceGuard 10.10 or later; ServiceGuard OPS Edition 11.01 or later			
<b>NOTE: THIS IS A FREE PRODUCT AND IS NOT ON CPL!</b>			
• ServiceGuard Manager for HP/UX	B8325BA		
• ServiceGuard Manager for NT	B8341BA0		

## MC/ServiceGuard Extension for SAP

Description	Product #	Opt #	Price
• <b>HP MC/ServiceGuard Extension for SAP License for Servers</b>	B7885BA		
<b>NOTE: Effective June 1, 2000 ServiceGuard Extension for SAP License will require NFS Toolkit (B5140BA) as a prerequisite.</b>			
Each Central Instance of SAP R/3 within an MC/ServiceGuard cluster requires one License.			
A Minimum of PSS (24x7 phone-in support) must be purchased with each license to use.			
Instant Ignition		OD1	
Each additional Instance within the same MC/ServiceGuard cluster		001	

## ClusterView Plus

	Description	Product #	Opt #	Price
•	<b>HP ClusterView Plus License for Workstations and Servers (English)</b>	B5174CA		
	Each cluster management station requires one license of HP ClusterView Plus (B5174CA). (License the NNM station, not the cluster.)			
•	<b>HP ClusterView Plus License for Workstations and Servers (Japanese)</b>	B5174CA	ABJ	
	Each cluster management station requires one license of HP ClusterView Plus (B5174CA#ABJ). (License the NNM station, not the cluster.)			

## Event Monitoring Service

	Description	Product #	Opt #	Price
	<b>High Availability Monitors for Event Monitoring Service License to Use</b>			
	Must order one License for each node within a cluster. Documentation can be ordered with Product Number B7612CA for 10.20 Release or B7612DA for 11.X Release Customers can use Application CD Set for media Or for Media CD Kit, order B5448AA for HP-UX 10.20 Application CD-ROM Media; B6201AA for HP-UX 11.0 CD-ROM Media.			
•	<b>Event Monitoring Service License to Use for 10.20 Release</b>	B5736CA		
•	<b>Event Monitoring Service License to Use for 11.X Release</b>	B5736DA		
	English/General Localization		ABA	
	Japanese Localization		ABJ	
	Instant Ignition		OD1	
•	<b>Event Monitoring Service documentation for 10.20 Release</b>	7612CA		
	English/General Localization.		ABA	
	Japanese Localization		ABJ	
•	<b>Event Monitoring Service documentation for 11.X Release</b>	B7612DA		
	English/General Localization		ABA	
	Japanese Localization		ABJ	

## MirrorDisk/UX

	Description	Product #	Opt #	Price
•	<b>HP MirrorDisk/UX</b>	B2491BA		
	Software that provides LVM Mirroring of SCSI and HP-FL disks. Increases data availability by protecting against disk failure. Must specify tier and media options.			
	Tier 1 – A-Class D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370, L-Class		AH0	
	Tier 2 – H-Class, I-Class, K400, K410, K420, K570, N-class		AE5	
	Tier 3 – T500, T520, T600, 890, V-Class		AEP	
	Upgrade credit for processor on Tier 1 (AH0)		OGR	
	Upgrade credit for processor on Tier 2 (AE5)		OC8	
	Instant Ignition		OD1	
•	<b>HP MirrorDisk/UX for Workstation (OBSOLETE)</b>			





### MetroCluster with EMC SRDF

	Description	Product #	Opt #	Price
•	<b>HP MetroCluster with EMC SRDF</b>	B6264BA		
	HP MetroCluster with EMC SRDF License for Disaster Tolerance Installation required with a minimum level of CSS Support for HP MetroCluster and MC/ServiceGuard, not including EMC SRDF. For EMC SRDF support, the standard pass through process to EMC will be followed. This product does not include a license to use for EMC SRDF product.			
	Instant Ignition		OD1	

### MetroCluster with HP Continuous Access XP

	Description	Product #	Opt #	Price
•	<b>HP MetroCluster with HP Continuous Access XP</b>	B8109BA		
	HP MetroCluster with HP Continuous Access XP License for Disaster Tolerance Installation required with a minimum level of CSS Support for HP MetroCluster and MC/ServiceGuard, not including HP Continuous Access XP. HP Continuous Access XP software and support must be purchased as a separate line items.			
	Instant Ignition		OD1	

### ContinentalClusters

	Description	Product #	Opt #	Price
•	<b>HP ContinentalClusters</b>	B7659BA		
	One HP ContinentalClusters license covers the license to use fee for software for one cluster each at the primary and recovery sites. This license to use fee does not include MC/ServiceGuard licenses, hardware, support services, or consulting. Note: It is mandatory for ContinentalClusters customers to complete a High Availability Solution Plan (HASP) with the Mission Critical Systems Engineering team. It is highly recommended that your customer purchase disaster planning consulting and services. Credit for upgrade from MetroCluster		001	
	Instant Ignition		OD1	
•	Disaster Tolerant Solutions Manual	B7660BA		

### SCSI Terminated Cable

	Description	Product #	Opt #	Price
•	<b>SCSI Terminated Cable: Servers. Designed for High Availability Cluster environment.</b>	C2980A		
	SCSI Cable, 0.5m HDTS68 HVD ILT M/F for HP9000 High Availability			
•	SCSI Cable .5m VHDS68/HDTS68 HVD ILT M/F	C7519A		
•	SCSI Cable 5m VHDS68/HDTS68 HVD ILT M/M	C5766A		
•	SCSI Cable 10m VHDS68/HDTS68 HVD ILT M/M	C5767A		
•	SCSI Cable 5m VHDS68/HDTS68 LVD/SE ILT M/M	C7520A		

## Subchapter 6.3—Systems Management

### HP-UX ServiceControl Suite

The HP-UX ServiceControl suite is a robust systems management system. It enables IT managers to run their high-performance HP-UX based environment with a high degree of discipline and control, and it delivers the best possible management for HP 9000 servers. The HP-UX ServiceControl suite allows IT managers to detect and avoid real and potential problems instantly, and to predictably manage system performance and response time dynamically across the HP HyperPlex platform.

With the unique combination of HP OpenView, as the e-services management platform for heterogeneous environments, and HP-UX ServiceControl, addressing the specific management requirements for HP-UX, the HP HyperPlex architecture is now also the most manageable data center solution available.

Seen as a whole, the products and services of the ServiceControl suite form a solid and complete system management solution. They are focused on the three cornerstones of a cohesive and successful systems management strategy; Centralized Multi-System Configuration Management, Fault Management and Workload Management.

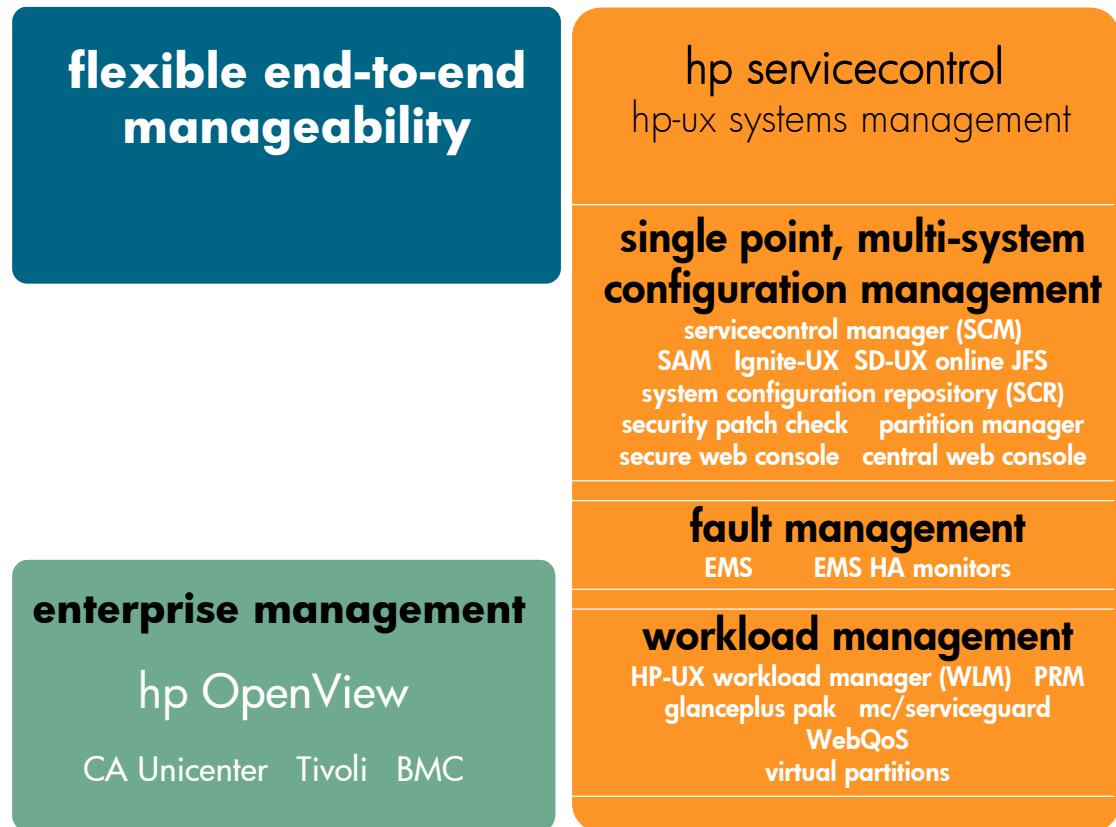


Figure 6.1



## Configuration Management

### HP OnLineJFS 3.1

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li><b>HP OnLineJFS 3.1 License for HP 9000 Enterprise Servers</b></li> </ul>	B3929BA		
Software that provides online resizing and defragmentation of HP-UX journaled file systems. Also takes file system snap shot on-line for backups. Must specify tier. OnLineJFS 3.1 is supported on HP-UX 10.20 and 11.0.			
Tier 1 – A-Class, D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370, L-Class, R-Class		AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K460, K570, N-Class		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor on Tier 1 (AH0)		OGR	
Upgrade credit for processor on Tier 2 (AE5)		OC8	
Instant Ignition		OD1	

### HP OnLineJFS 3.3

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li><b>HP OnLineJFS 3.3 License for HP 9000 Enterprise Servers</b></li> </ul>	B3929CA		
Software that provides online resizing and defragmentation of HP-UX journaled file systems. Also takes file system snap shot on-line for backups. Must specify tier. OnLineJFS 3.3 is supported on HP-UX 11.0 or later releases.			
Tier 1 – A-Class, D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370, L-Class, R-Class		AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K460, K570, N-Class		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Upgrade credit for processor on Tier 1 (AH0)		OGR	
Upgrade credit for processor on Tier 2 (AE5)		OC8	

### Central Web Console 1.0 Products

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>Central Web Console Kit, US/Canada</li> </ul>	A5547A		
<ul style="list-style-type: none"> <li>Delete Manual Set</li> </ul>	A5547A	OB0	
<ul style="list-style-type: none"> <li>Factory Integrated (H/W only)</li> </ul>	A5547A	OD1	
<ul style="list-style-type: none"> <li>Central Web Console Kit, Int'l</li> </ul>	A5550A		
<ul style="list-style-type: none"> <li>Delete Manual Set</li> </ul>	A5550	OB0	
<ul style="list-style-type: none"> <li>Factory Integrated (H/W only)</li> </ul>	A5550	OD1	
<ul style="list-style-type: none"> <li>Terminal Server Only (28-port)</li> </ul>	A5799A		
<ul style="list-style-type: none"> <li>Factory Integrated</li> </ul>	A5799A	OD1	
<ul style="list-style-type: none"> <li>RS232 Cable, Central Web Console, 16 meter, DB9M, DB9F cable (one per host connection)</li> </ul>	A5553A		
<ul style="list-style-type: none"> <li>US/Canada Central Web Console LTU &amp; Media (for up to 28-host connections, 168-bit encryption)</li> </ul>	B7886BA		
<ul style="list-style-type: none"> <li>Int'l Central Web Console LTU &amp; Media (for up to 28 host connections, 56-bit encryption)</li> </ul>	B7887BA		



### Central Web Console 2.0 Products

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>Central Web Console 2.0 with 168-bit encryption</li> </ul>	J6352AA		
16 console LTU		016	
64 console LTU		064	
256 console LTU		256	
Upgrade from 16 to 64 console LTU		164	
Upgrade from 64 to 256 console LTU		656	
<ul style="list-style-type: none"> <li>Terminal Server Only (28-port) (optional)</li> </ul>	A5799A		
<ul style="list-style-type: none"> <li>RS232 Cable, 16 meter, DB9M, DB9F cable (optional)</li> </ul>	A5553A		

Note: Central Web Console 2.0 contains encryption which is regulated by the US and requires special export regulations. CWC is approved by the US government to ship to most countries and governments around the world except: Afghanistan, Cuba, Montenegro, Iran, Iraq, Libya, Sudan, Syria, North Korea, and Serbia.

## Fault Management

### Event Monitoring Service

Description	Product #	Opt #	Price
<b>High Availability Monitors for Event Monitoring Service License to Use</b>			
Must order one License for each node within a cluster. Documentation can be ordered with Product Number B7612CA for 10.20 Release or B7612DA for 11.X Release. Must specify local option. Customers can use Application CD Set for media Or for Media CD Kit, order B5448AA for HP-UX 10.20 Application CD-ROM Media; B6201AA for HP-UX 11.0 CD-ROM Media.			
<ul style="list-style-type: none"> <li>Event Monitoring Service License to Use for 10.20 Release</li> </ul>	B5736CA		
<ul style="list-style-type: none"> <li>Event Monitoring Service License to Use for 11.X Release</li> </ul>	B5736DA		
English/General Localization		ABA	
Japanese License Localization		ABJ	
Instant Ignition		OD1	
<ul style="list-style-type: none"> <li>Event Monitoring Service documentation for 10.20 Release</li> </ul>	B7612CA		
English/General Localization		ABA	
Japanese Localization		ABJ	
<ul style="list-style-type: none"> <li>Event Monitoring Service documentation for 11.X</li> </ul>	B7612DA		
English/General Localization		ABA	
Japanese Localization		ABJ	

## Workload Management

### HP-UX Workload Manager (WLM)

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li>HP-UX Workload Manager License for HP 9000 Enterprise Servers</li> </ul>	[ ] B8843CA		
System resource management software for HP-UX systems. Available on HP-UX 11.0 and later. Manages CPU allocations based on goals defined by customers. Dynamically online change of CPU allocation without user intervention. Must order the license product, language license option and tier option.			
Tier I – A-Class, R-Class, L-Class, D-Class, E-Class, F-Class, G-Class, K100, K200, K210, K220, K360, K370, K380	[ ]	AHO	
Tier II – H-Class, I-Class, K400, K410, K420, K460, K570, K580, N-Class	[ ]	AE5	
Tier III – 890, T-Class, V-Class	[ ]	AEP	
Upgrade credit for processor Tier I	[ ]	OGR	
Upgrade credit for processor Tier II	[ ]	OC8	
Credit for Upgrade from HP PRM Tier I (Must buy Tier I,II or III of HP-UX WLM)	[ ]	001	
Credit for Upgrade from HP PRM Tier II (Must buy Tier II or III of HP-UX WLM)	[ ]	002	

Description		Product #	Opt #	Price
Credit for Upgrade from HP PRM Tier III (Must buy Tier III of HP-UX WLM)	[ ]		003	
Instant Ignition	[ ]		OD1	
English License	[ ]		ABA	
• HP-UX Workload Manager Documentation	[ ]	B8844CA		
Documentation for HP-UX Workload Manager B8843CA (English version)	[ ]		ABA	

Must order the product number + language option + tier option

## Workload Management

### Process Resource Manager (PRM)

Description		Product #	Opt #	Price
• <b>HP Process Resource Manager License for HP9000 Enterprise Servers and Workstations*</b>	[ ]	B3835CA		
System resource management software for HP-UX systems. This product supports only 10.20 version.				
System administrators can allocate CPU, real memory and disk I/O bandwidth to a single user, a group of users or an application based on business priorities. Must order the license product, the language license option and the tier option. The product is not instant ignitable on the workstations. Documentation can be ordered as separate product (B8733CA)				
Tier I - A-Class, R-class, L-Class, D-Class, E-Class, F-Class, G-Class, K100, K200, K210, K220, K360, K370, K380, workstations	[ ]		AH0	
Tier II - N-class, H-Class, I-Class, K400, K410, K420, K460, K570, K580	[ ]		AE5	
Tier III - V-class, T-Class, 890	[ ]		AEP	
Upgrade credit for processor Tier I	[ ]		OGR	
Upgrade credit for processor Tier II	[ ]		OC8	
Instant ignition	[ ]		OD1	
English License	[ ]		ABA	
Japanese License	[ ]		ABJ	
• HP Process Resource Manager Documentation	[ ]	B8733CA		
Documentation for HP Process Resource Manager B3835CA (English Version)	[ ]		ABA	
Documentation for HP Process Resource Manager B3835CA (Japanese Version)	[ ]		ABJ	
• <b>HP Process Resource Manager License for HP9000 Enterprise Servers and Workstations*</b>	[ ]	B3835DA		
System resource management software for HP-UX systems. This product supports only 11.0 Version and later.				
System administrators can allocate CPU, real memory and disk I/O bandwidth to a single user, a group of users or an application based on business priorities. Must order the license product, the language license option and the tier option. The product is not instant ignitable on the workstations. Documentation can be ordered as separate product (B8733DA)				
Tier I - A-Class, R-class, L-Class, D-Class, E-Class, F-Class, G-Class, K100, K200, K210, K220, K360, K370, K380, workstations	[ ]		AH0	
Tier II - N-class, H-Class, I-Class, K400, K410, K420, K460, K570, K580	[ ]		AE5	
Tier III - V-class, T-Class, 890	[ ]		AEP	
Upgrade credit for processor Tier I	[ ]		OGR	
Upgrade credit for processor Tier II	[ ]		OC8	
Instant ignition	[ ]		OD1	
English License	[ ]		ABA	
Japanese License	[ ]		ABJ	
• HP Process Resource Manager Documentation	[ ]	B8733DA		
Documentation for HP Process Resource Manager B3835DA (English Version)	[ ]		ABA	
Documentation for HP Process Resource Manager B3835DA (Japanese Version)	[ ]		ABJ	

\* Must order the product number + language option + tier option. The OD1 option is available for the servers only and NOT for the workstations.



**MC/ServiceGuard**

Please see Subchapter 6.2: High Availability for additional details on MC/ServiceGuard.

Description	Product #	Opt #	Price
<b>HP MC/ServiceGuard License</b>			
• MC/ServiceGuard for 10.20 Release	B3935CA		
• MC/ServiceGuard for 11.X Release	B3935DA		
Enterprise cluster software that allows multiple nodes to cooperate in order to eliminate or reduce application downtime. Must order one copy per SPU. Must specify tier and option. Services consulting required for first installation at each customer.			
Tier 1 – A-Class, D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370, L-Class		AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570, N-Class		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
English Localization		ABA	
Japanese Localization		ABJ	
Korean Localization		AB1	
Taiwan (Chinese) Localization		AB0	
China (Traditional Chinese) Localization		AB2	
Other countries/regions		ABA	
Upgrade credit for processor Tier 1 (AH0)		OGR	
Upgrade credit for processor Tier 2 (AE5)		OC8	
Credit for upgrade from SwitchOver Tier 1		101	
Credit for upgrade from SwitchOver Tier 2		102	
Credit for upgrade from SwitchOver Tier 3		103	
Instant Ignition		OD1	
<b>HP MC/ServiceGuard manual</b>			
• MC/ServiceGuard manual for 10.20 Release	B3936DA		
• MC/ServiceGuard manual for 11.X Release	B3936EA		
English manual		ABA	
Japanese manual		ABJ	
Korean documentation		AB1	
Taiwan (Chinese) documentation		AB0	
China (Traditional Chinese) documentation		AB2	
Other countries/regions		ABA	
<b>HP MC/ServiceGuard Database (Enterprise Cluster Master) Toolkit License</b>			
• Enterprise Cluster Master Toolkit for 10.20 Release	B5139CA		
• Enterprise Cluster Master Toolkit for 11.X Release	B5139DA		
Instant Ignition		OD1	
<b>HP MC/ServiceGuard NFS Toolkit License</b>			
• Instant Ignition	B5140BA		
		OD1	

**MC/ServiceGuard Extension for SAP**

Description	Product #	Opt #	Price
• <b>HP MC/ServiceGuard Extension for SAP License for Servers</b>	B7885BA		
<b>NOTE: Effective June 1, 2000 ServiceGuard Extension for SAP License will require NFS Toolkit (B5140BA) as a prerequisite.</b>			
Each Central Instance of SAP R/3 within an MC/ServiceGuard cluster requires one License.			
A Minimum of PSS (24x7 phone-in support) must be purchased with each license to use.			
Instant Ignition		OD1	
Each additional Instance within the same MC/ServiceGuard cluster		001	



**HP OpenView GlancePlus**

Please see Chapter 9: Network and Enterprise Management for additional details on GlancePlus.

	Description	Product #	Opt. #	Price
•	<b>HP OV GlancePlus Tier One, LTU (1-49)</b>	B6121AA		
	50-199			
	200-999999			
	Telephone Assist System Support-1st Yr.		OS6	
	First Year of System Support Option		OT1	
	First Year of System Support Option		OT2	
	First Year of System Support Option		OV1	
	First Year of System Support Option		OV2	
	Telephone/Next Day System Support-3 Year		3Y2	
	Telephone/4-hr System Support - 3 Year		3Y3	
	SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
•	<b>HP OV GlancePlus Tier Two, LTU (1-49)</b>	B6122AA		
	50-199			
	200-999999			
	Upgrade credit for tier 1 SPUs		OGR	
	Telephone Assist System Support-1st Yr.		OS6	
	First Year of System Support Option		OT1	
	First Year of System Support Option		OT2	
	First Year of System Support Option		OV1	
	First Year of System Support Option		OV2	
	Telephone/Next Day System Support-3 Year		3Y2	
	Telephone/4-hr System Support - 3 Year		3Y3	
	SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
•	<b>HP OV GlancePlus Tier Three, LTU (1-49)</b>	B6123AA		
	50-199			
	200-999999			
	Upgrade credit for tier 2 SPUs		OC8	
	Upgrade credit for tier 1 SPUs		OGR	
	Telephone Assist System Support-1st Yr.		OS6	
	First Year of System Support Option		OT1	
	First Year of System Support Option		OT2	
	First Year of System Support Option		OV1	
	First Year of System Support Option		OV2	
	Telephone/Next Day System Support-3 Year		3Y2	
	Telephone/4-hr System Support - 3 Year		3Y3	
	SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	

NOTE: All products are bundled with one-year standard support.  
 The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

**HP OpenView GlancePlusPak 2000**

Please see Chapter 9: Network and Enterprise Management for additional details on GlancePlusPak 2000.

	Description	Product #	Price
•	<b>OV GlancePlus Pak 2000, LTU Tier 1 Svr. (1-49)</b>	B6131AA	
	50-199		
	200-999999		
	Telephone Assist System Support-1st Yr.		OS6
	First Year of System Support Option		OT1
	First Year of System Support Option		OT2



Description	Product #	Price
First Year of System Support Option		OV1
First Year of System Support Option		OV2
Telephone/Next Day System Support-3 Year		3Y2
Telephone/4-hr System Support - 3 Year		3Y3
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6
<b>• OV GlancePlus Pak 2000,LTU Tier 2 Server (1-49)</b>	<b>B6132AA</b>	
50-199		
200-999999		
Upgrade credit for tier 1 SPUs		OGR
Telephone Assist System Support-1st Yr.		OS6
First Year of System Support Option		OT1
First Year of System Support Option		OT2
First Year of System Support Option		OV1
First Year of System Support Option		OV2
Telephone/Next Day System Support-3 Year		3Y2
Telephone/4-hr System Support - 3 Year		3Y3
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6
<b>• OV GlancePlus Pak 2000,LTU Tier 3 Server (1-49)</b>	<b>B6133AA</b>	
50-199		
200-999999		
Upgrade credit for tier 2 SPUs		OC8
Upgrade credit for tier 1 SPUs		OGR
Telephone Assist System Support-1st Yr.		OS6
First Year of System Support Option		OT1
First Year of System Support Option		OT2
First Year of System Support Option		OV1
First Year of System Support Option		OV2
Telephone/Next Day System Support-3 Year		3Y2
Telephone/4-hr System Support - 3 Year		3Y3
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.



### HP WebQoS Version 2 vs. HP WebQoS Peak

Vs. HP WebQoS Peak, HP WebQoS 2.2 offers: single administration for multiple systems and web servers, support for multiple web server types, support for multi-tier architectures, user and activity prioritization, and measurement data and event integration with HP OpenView VantagePoint.

### HP WebQoS Peak

HP WebQoS Peak is included with HP 9000 servers and is available for purchase for Linux on Intel systems.

#### Request Controller

- Assures fast and consistent performance for Web applications, even during usage spikes, by preventing overload by deferring or redirecting new users based on local system performance
- No access prioritization or differentiated performance
- Simple configuration with thresholds based on CPU utilization

#### Management System

- Measures, monitors, and directs controllers to achieve maximum throughput





**HP WebQoS for HP-UX**

	Description	Product #	Opt #	Price
•	HP WebQoS 2.2 up to 4 CPU License & CDROM UX	B8311AA		
•	HP WebQoS 2.2 up to 12 CPU License & CDROM UX	B8703AA		
•	HP WebQoS 2.2 over 12 CPU License & CDROM UX	B8704AA		
•	HP WebQoS Peak Packaged Edition for HP 9000 servers	J4274AA		
•	HP WebQoS Peak for HP 9000 workstations	J4270AA		

**Please see Chapter 9: Network and Enterprise Management for additional details on HP WebQoS software.**

## HP WebQoS Software

Please see Chapter 9: WebQoS Software section

### BEA

Description	Product #	Opt #	Price
<b>BEA Jolt 1.x LTU</b>	B8130AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
<b>BEA MessageQ 4.0 LTU</b>	B8162AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
<b>BEA MessageQ 4.0 Run-time LTU</b>	B8166AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
<b>MQSeries Connection for 4.0 LTU</b>	B8170AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
<b>BEA MessageQ 5.0 LTU</b>	B8174AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
<b>BEA MessageQ 5.0 Run-time LTU</b>	B8178AA		
<b>BEA ObjectBroker 4.1 LTU</b>	B8182AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
<b>BEA ObjectBroker 4.1 Run-time LTU</b>	B8186AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
<b>Desktop Connection per machine RT LTU</b>	B8190AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	



Description	Product #	Opt #	Price
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>Tuxedo WebLogic Ent 4.0 Agent Conn LTU</b>	B8194AA		
• <b>Custom Agent Dev Kit per Developer LTU</b>	B8198AA		
• <b>Agent Integrator per server LTU</b>	B8202AA		
• <b>Log Central Host LTU per server</b>	B8212AA		
• <b>Log Central Managed Node per svr LTU</b>	B8216AA		
• <b>BEA Builder for Tuxedo LTU</b>	B8220AA		
• <b>BEA Builder for WebLogic Enterprise LTU</b>	B8224AA		
• <b>BEA Tuxedo 6.x Documentation Manual</b>	B8228AA		
• <b>BEA Object Broker 3.0 Manuals</b>	B8229AA		
• <b>BEA MessageQ 4.0 Manuals</b>	B8232AA		
• <b>BEA Base JDBC Dvr 5 Concurrent Users LTU</b>	B8253AA		
• <b>BEA Workgroup JDBC Dvr 15 Concurrent LTU</b>	B8257AA		
• <b>BEA Enterprise JDBC Dvr Unltd Users LTU</b>	B8261AA		
• <b>BEA eLink Information Integrator Production Server LTU</b>	B9446BA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Information Integrator Development Server LTU</b>	B9447BA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Adapter WebLogic Enterprise Corba LTU</b>	B9791AA		
• <b>BEA eLink R/3 Advanced LTU</b>	B8274AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Adapter Portal Infranet LTU</b>	B9462AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Peoplesoft Adapters LTU</b>	B8282AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Mainframe SNA Adapters LTU</b>	B8286AA		
• <b>BEA eLink MF TCPIP Adapters LTU</b>	B8290AA		
• <b>BEA eLink Mainframe OSITP Adapters LTU</b>	B8294AA		
• <b>BEA eLink Mercator R/3 Client LTU</b>	B8298AA		
• <b>BEA Mercator Open Edition LTU</b>	B8302AA		
• <b>BEA Tuxedo 6.x Run-Time License</b>	J4910AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	

Description	Product #	Opt #	Price
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU add'l MVS		2AQ	
1 add'l CPU		2AR	
1 CPU w/opt of 1 add'l MVS mainframe		2AS	
<b>• BEA Tuxedo 6.x Run-Time User Base LTU</b>	J4922AA		
1 additional CPU		2AR	
10 user min-low end 1 to 2 CPU		2AT	
26 user min-mid range 1 to 4 CPU		2AU	
64 user min-mid range 4 to 8 CPU		2AV	
102 user min-high end 8 to 32 CPU		2AW	
203 user min-high end > 32 CPU		2AX	
400 user CPU LTU		2AY	
<b>• Addl Tux Client Capability CPU Based LTU</b>	J4926AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU w/opt of 1 add'l MVS mainframe		2AQ	
1 additional CPU		2AR	
1 additional MVS mainframe CPU		2AS	
<b>• Addl Tux Clients User Based LTU</b>	J4930AA		
10 user min-low end 1 to 2 CPU		2AT	
26 user min-mid range 1 to 4 CPU		2AU	
64 user min-mid range 4 to 8 CPU		2AV	
102 user min-high end 8 to 32 CPU		2AW	
203 user min-high end > 32 CPU		2AX	
BEA Tuxedo 6.x Run-Time LTU		2AY	
<b>• Tuxedo MSCS Support Extension LTU</b>	J4950AA		
<b>• BEA Workstation LTU per server</b>	J4954AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
<b>• BEA Workstation LTU per user</b>	J4958AA		
<b>• BEA Tuxedo 6.x SDK LTU</b>	J4962AA		
<b>• BEA WebLogic Enterprise 5.0 CPU Base LTU</b>	J4966AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU w/opt of 1 add'l MVS mainframe		2AQ	
1 additional CPU		2AR	
1 additional MVS mainframe CPU		2AS	
<b>• BEA WebLogic Enterprise 4.0 Usr Base LTU</b>	J4974AA		
1 additional CPU		2AR	
10 user min-low end 1 to 2 CPU		2AT	
26 user min-mid range 1 to 4 CPU		2AU	
64 user min-mid range 4 to 8 CPU		2AV	
102 user min-high end 8 to 32 CPU		2AW	
203 user min-high end > 32 CPU		2AX	
400 user MVS LTU		2AY	

Description	Product #	Opt #	Price
<b>BEA Add Tuxedo RTK to WLE 5.1 Install LTU</b>	B96159AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU w/opt of 1 add'l MVS mainframe		2AQ	
<b>BEA Add WLE5.1 to Tuxedo Unltd LTU</b>	B9616AA		
1 to 2 CPU-low end 1 additional CPU		2AK	
1 to 4 CPU-mid range 10 user min-low end 1 to 2 CPU		2AL	
4 CPU w/option of 4 add'l-mid range 26 user min-mid range 1 to 4 CPU		2AM	
8 CPU w/option of 24 add'l-high end 64 user min-mid range 4 to 8 CPU		2AN	
16 CPU w/option of add'l-high end 102 user min-high end 8 to 32 CPU		2AP	
2 CPU w/opt of 1 add'l MVS mainframe 203 user min-high end > 32 CPU		2AQ	
<b>Add BEA WL Obj Client to Tux CPU Base LTU</b>	J4986AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU w/opt of 1 add'l MVS mainframe		2AQ	
1 additional CPU		2AR	
1 additional MVS mainframe CPU		2AS	
<b>Add WL Object Client to Tux Usr Base LTU</b>	J4990AA		
1 additional CPU		2AR	
10 user min-low end 1 to 2 CPU		2AT	
26 user min-mid range 1 to 4 CPU		2AU	
64 user min-mid range 4 to 8 CPU		2AV	
102 user min-high end 8 to 32 CPU		2AW	
203 user min-high end > 32 CPU		2AX	
400 user min MVS mainframe		2AY	
<b>BEA Addl Non-concrnt C++,ActX Client LTU</b>	J4994AA		
<b>BEA WLE w/EJB 5.1 SDK, user LTU</b>	B9492AA		
<b>BEA WLE 5.1 Domestic Encryption User Unltd</b>	B9611AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU w/opt of 1 add'l MVS mainframe		2AQ	
<b>BEA WLE 5.1 International Encryption Unltd LTd</b>	B9612AA		
1 to 2 CPU-low end 1 additional CPU		2AK	
1 to 4 CPU-mid range 10 user min-low end 1 to 2 CPU		2AL	
4 CPU w/option of 4 add'l-mid range 26 user min-mid range 1 to 4 CPU		2AM	
8 CPU w/option of 24 add'l-high end 64 user min-mid range 4 to 8 CPU		2AN	
16 CPU w/option of add'l-high end 102 user min-high end 8 to 32 CPU		2AP	
2 CPU w/opt of 1 add'l MVS mainframe 203 user min-high end > 32 CPU		2AQ	
<b>WebLogic Personalization Server</b>			
BEA WebLogic Personal Sever	B9448BA		
BEA WebLogic Personal Sever Upgrade	B9453BA		
<b>WebLogic Commerce Server</b>			
BEA WebLogic Commerce Server	B9418BA		
BEA WebLogic Commerce Server Upgrade	B9452BA		
BEA WebLogic Personalization Server to WebLogic Commerce Server Upg	B9845AA		

Description	Product #	Opt #	Price
<b>WebLogic Server 5.1</b>			
BEA WLS 5.1 Dev Seat User	B9419AA		
BEA WLS 6.0 Base Edition	B9454BA		
BEA WLS 5.1 Cluster LTU	B9455AA		
BEA WLS 5.1 Cluster OS390 LTU	B9456AA		
BEA WLS 5.1 Add'l Cluster LTU	B9457AA		
BEA WLS 5.1 Express LTU	B9458AA		
BEA Weblogic Express, Cluster Ed LTU	B9666AA		
BEA Weblogic Express, Cluster Ed Upg LTU	B9667AA		
<b>WebLogic Process Integrator</b>			
BEA Weblogic Process Integrator UNLTD	B9825AA		
BEA WebLogic Process Integrator Add'l CPU	B9826AA		
BEA WebLogic Process Integrator named User	B9843AA		
BEA WebLogic Process Integrator Ser/CPU	B9844AA		
<b>WebLogic Enterprise</b>			
BEA WLE 5.1 RTK Corba/ATMI user LTU	B9493AA		
<b>WebLogic RTK Corba/ATMI Unltd LTU</b>	B9609AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU w/opt of 1 add'l MVS mainframe		2AQ	
1 add'l CPU over Base		2AR	
1 add'l MVS m/frame CPU		2AS	
<b>WebLogic Enterprise w/EJB 5.1 UnLtd</b>	B9610AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU w/opt of 1 add'l MVS mainframe		2AQ	
1 add'l CPU over Base		2AR	
1 add'l MVS m/frame CPU		2AS	
<b>BEA WLE w/EJB 5.1 User LTU</b>	B9494AA		
BEA WLE 5.1 Dom Encryotion user LTU	B9495AA		
BEA WLE 5.1 Int'l Encrypt User LTU	B9496AA		
BEA Web Enterprise Non-Conn User LTU	B9613AA		
BEA WLE w/EJB 5.1 Upgrade User LTU	B9497AA		
<b>WebLogic Enterprise w/EJB 5.1 Upg Unltd LTU</b>	B9614AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU MVS over Base		2AQ	
1 add'l CPU over Base		2AR	
1 add'l MVS m/frame CPU		2AS	
<b>BEA Additional EJB5.1 to Tuxedo Unltd LTU</b>	B9617AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
2 CPU MVS over Base		2AQ	

Description	Product #	Opt #	Price
1 add'l CPU over Base		2AR	
1 add'l MVS m/frame CPU		2AS	
• <b>BEA eLink Adapter for Kenan/Arbor BP LTU</b>	B9463AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Adapter for R/3 ALE v1.6 LTU</b>	B9464AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Adapter for Oracle Fin v1.1 LTU</b>	B9465AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Adapter for Broadvision v1.1 LTU</b>	B9466AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Adapter for Sibel v1.1 LTU</b>	B9467AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Adapter for Vantive v1.1 LTU</b>	J5775AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Data Integration Server LTU</b>	J5836AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Foundaiton LTU</b>	J6135AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Platform LTU</b>	J6141AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	

Description	Product #	Opt #	Price
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Adapter for R/3 BAPI/RC LTU</b>	J6153AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AK	
• <b>BEA eLink Mainframe SNA Adapter LTU</b>	B9286AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>BEA eLink Adapter MF TC/PIP LTU</b>	B8290AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	
• <b>*****BEA eLink Adapter XML LTU</b>	B9086AA		
1 to 2 CPU-low end		2AK	
1 to 4 CPU-mid range		2AL	
4 CPU w/option of 4 add'l-mid range		2AM	
8 CPU w/option of 24 add'l-high end		2AN	
16 CPU w/option of add'l-high end		2AP	

## HP OpenMail

### Overview

- HP OpenMail is HP's high-performing enterprise messaging solution for UNIX®.
- HP OpenMail is used by large, successful organizations throughout the world and is widely recognized as one of the most reliable, cost-effective, and flexible messaging servers available.
- HP OpenMail will work with a wide range of different Internet clients such as Netscape Communicator, Lotus® Mail, QuickMail, and Eudora and proprietary desktop clients such as cc:Mail, Microsoft® Mail, and Microsoft Outlook97. As an alternative to these, HP OpenMail can be used with the HP-designed OpenMail mobile and desktop clients. These have a full range of features, including spell checking, rich text, auto mail actions, shared folders, and personal filing area, together with wide platform support.
- HP OpenMail is easy to manage and, once set up, requires little system management. HP OpenMail has its own Windows® administration interface, a full command line set for easy scripting, as well as agent support for HP OpenView.
- HP OpenMail can also be used for application-to-application communication and business workflow.
- OpenMail is Year 2000 compliant when used on HP-UX 10.x. and later versions of Solaris and AIX.

### Notes

- OpenMail consists of three main orderable components: software licenses, documentation, and CD-ROM media. Software licenses, available in 50-user blocks only, are available for server mailbox and, if they are used, HP OpenMail clients. You must order a minimum of one 50-user mailbox license to make the server function.
- OpenMail uses NetLS software licensing. Customers receive a License Entitlement Certificate for the number of licenses purchased. This is then used to get node-locked license passwords from the nearest HP License Administration Center.





## HP OpenMail

Description	Product #	Opt #	Price
<b>HP OpenMail Mailbox License for 50 Users</b>	B2016BZ		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x365 System Support - 1 year		OS5	
Telephone/24x365 System Support - 1 year		OS6	
License/Next Day System Support - 3 year		3Y0	
License/4-hr System Support - 3 year		3Y1	
Telephone/Next Day System Support - 3 year		3Y2	
Telephone/4-hr System Support - 3 year		3Y3	
License/24x365 System Support - 3 year		3Y5	
Telephone/24x365 System Support - 3 year		3Y6	
<b>HP OpenMail Client License for 50 Users</b>	B2020BZ		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x365 System Support - 1 year		OS5	
Telephone/24x365 System Support - 1 year		OS6	
License/Next Day System Support - 3 year		3Y0	
License/4-hr System Support - 3 year		3Y1	
Telephone/Next Day System Support - 3 year		3Y2	
Telephone/4-hr System Support - 3 year		3Y3	
License/24x365 System Support - 3 year		3Y5	
Telephone/24x365 System Support - 3 year		3Y6	
<b>HP OpenMail Manuals</b>	B4785A		
American English Edition (only language available - ABA must be specified when ordering)		ABA	
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x365 System Support - 1 year		OS5	
Telephone/24x365 System Support - 1 year		OS6	
License/Next Day System Support - 3 year		3Y0	
License/4-hr System Support - 3 year		3Y1	
Telephone/Next Day System Support - 3 year		3Y2	
Telephone/4-hr System Support - 3 year		3Y3	
License/24x365 System Support - 3 year		3Y5	
Telephone/24x365 System Support - 3 year		3Y6	
<b>HP OpenMail Media for HP 9000 HP-UX Systems</b>	B4786A		
CD-ROM Disk (must be specified when ordering)		AAF	
HP-UX Revision 9.x (either APH or APS must be specified when ordering)		APH	
HP-UX Version 10.01		APS	
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x365 System Support - 1 year		OS5	
Telephone/24x365 System Support - 1 year		OS6	
License/Next Day System Support - 3 year		3Y0	
License/4-hr System Support - 3 year		3Y1	
Telephone/Next Day System Support - 3 year		3Y2	
Telephone/4-hr System Support - 3 year		3Y3	
License/24x365 System Support - 3 year		3Y5	

	Description	Product #	Opt #	Price
	Telephone/24x365 System Support - 3 year		3Y6	
•	<b>HP OpenMail Media for IBM AIX Systems</b>	B4787A		
	CD-ROM Disk (must be specified when ordering)		AAF	
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	Telephone/Next Day System Support - 1 year		OS2	
	Telephone/Same Day System Support - 1 year		OS3	
	License/24x365 System Support - 1 year		OS5	
	Telephone/24x365 System Support - 1 year		OS6	
	License/Next Day System Support - 3 year		3Y0	
	License/4-hr System Support - 3 year		3Y1	
	Telephone/Next Day System Support - 3 year		3Y2	
	Telephone/4-hr System Support - 3 year		3Y3	
	License/24x365 System Support - 3 year		3Y5	
	Telephone/24x365 System Support - 3 year		3Y6	
•	<b>HP OpenMail Media for Sun Solaris Systems</b>	B4789A		
	CD-ROM Disk (must be specified when ordering)		AAF	
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	Telephone/Next Day System Support - 1 year		OS2	
	Telephone/Same Day System Support - 1 year		OS3	
	License/24x365 System Support - 1 year		OS5	
	Telephone/24x365 System Support - 1 year		OS6	
	License/Next Day System Support - 3 year		3Y0	
	License/4-hr System Support - 3 year		3Y1	
	Telephone/Next Day System Support - 3 year		3Y2	
	Telephone/4-hr System Support - 3 year		3Y3	
	License/24x365 System Support - 3 year		3Y5	
	Telephone/24x365 System Support - 3 year		3Y6	

## HP-UX Java™ Products

### HP-UX Software Developer's Kit for Java

	Description	Product #	Opt #	Price
•	<b>HP-UX SDK(Software Development Kit), for the Java™ 2 platform v. 1.3</b>	B9788AA		
	For HP 9000 Enterprise Servers, HP 9000 Workstations and HP Visualize Workstations. Product is available free-of-charge at <a href="http://www.hp.com/java">www.hp.com/java</a> or on DVD as part of the Applications Media Kit. Instant Ignition		OD1	
•	<b>HP-UX SDK(Software Development Kit), for the Java™ 2 platform v. 1.2</b>	B8110AA		
	For HP 9000 Enterprise Servers, HP 9000 Workstations and HP Visualize Workstations. Product is available free-of-charge at <a href="http://www.hp.com/java">www.hp.com/java</a> or on CD-ROM as part of the Applications Media Kit. Instant Ignition		OD1	
•	<b>HP-UX Developer's Kit for Java Release 1.1.8*</b>	B5456CA		
	For HP 9000 Enterprise Business Servers. Product is available free-of-charge at <a href="http://www.hp.com/java">www.hp.com/java</a> or on CD-ROM as part of the Applications Media Kit. Instant Ignition		OD1	

## HP-UX Runtime Environment for Java

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li><b>HP-UX RTE (Runtime Environment), for the Java™ 2 platform v. 1.3</b></li> </ul>	B9789AA		
For HP 9000 Enterprise Servers, HP 9000 Workstations and HP Visualize Workstations. Product is available free-of-charge at <a href="http://www.hp.com/java">www.hp.com/java</a> or on DVD as part of the Applications Media Kit. Instant Ignition		OD1	
<ul style="list-style-type: none"> <li><b>HP-UX RTE(Runtime Environment), for the Java™ 2 platform v. 1.2</b></li> </ul>	B8111AA		
For HP 9000 Enterprise Servers, HP 9000 Workstations and HP Visualize Workstations. Product is available free-of-charge at <a href="http://www.hp.com/java">www.hp.com/java</a> or on CD-ROM as part of the Applications Media Kit. Instant Ignition		OD1	
<ul style="list-style-type: none"> <li><b>HP-UX Virtual Machine for Java Release 1.1.8*</b></li> </ul>	B5458CA		
(for HP 9000 Enterprise Business Servers) (Product is available free-of-charge at <a href="http://www.hp.com/java">www.hp.com/java</a> or on CD-ROM as part of the Applications Media Kit.) Instant Ignition		OD1	

\*Notes: We have removed the 1.1.7 and 1.1.6 releases and discontinued their support as of October 30, 2000. Since we provide Java bug fixes via update releases (such as 1.1.8) and not via individual bug fix patches, we recommend 1.1.7 and 1.1.6 users move to the latest 1.1.8 release.  
The HP-UX Developer's Kit for Java™ (JDK) 1.1x releases (Product B5455CA/B5456CA) for hp-ux 11.0, 11i, and 10.20 PA-RISC systems provide the standard Java 1.1x JDK tools, core API support, and classic VM technology.  
The Runtime Plug-in for HP-UX 10.20 for 1.1.8 is included in the HP-UX 10.20 JRE. The runtime plug-in allows users to utilize a version of the JRE that is different from the JRE embedded with Netscape Navigator 4.61 and later.

## Praesidium Security Solutions

### VirtualVault

#### Overview

HP Praesidium VirtualVault is a trusted Web-server platform for deploying business-critical applications and e-services on the Web. This Web security software protects a company's confidential information and transactions, Web site, back-end application resources and intranet. VirtualVault includes a trusted operating system, a securely integrated Web server and a strictly partitioned Web runtime environment. VirtualVault already protects Web applications and transactions at over 120 financial institutions in 24 countries with over \$7 trillion in total assets, including three of the top five banks in both the U.S. and Japan, and is the only trusted Web-server platform on the market with no reported break-ins since its introduction over three years ago. For more information go to: <http://www.hp.com/security/products/virtualvault/>

- The **VirtualVault 4.0** software package comes complete with its own trusted operating system, HP-UX 11.04 VVOS (binary-compatible with HP-UX 11.0), the iPlanet Web Server-Enterprise Edition 4.0 (formerly known as Netscape Enterprise Server), the VirtualVault trusted gateway and secure IPC tools, along with integral administration, configuration, and auditing capabilities. This new 4.0 release includes a new trusted operating system that supports applications with threads, streams and 64-bit architecture. It also supports MirrorDisk/VVOS. One product number for VirtualVault media is a bundle of all of the above-listed software components, including the trusted operating system.
- The **VirtualVault 3.5** software package comes complete with its own trusted operating system, HP-UX 10.24 VVOS (binary-compatible with HP-UX 10.20), the Netscape Enterprise Server version 3.6, the VirtualVault trusted gateway and secure IPC tools, along with integral administration, configuration, and auditing capabilities. One product number for VirtualVault media is a bundle of all of the above-listed software components, including the trusted operating system. VirtualVault 3.5 will not be sold beyond January 1, 2000 because we will be migrating customers to the VirtualVault 4.0 product.

## Pricing

VirtualVault software pricing is tier-based and is determined by the server on which you are running VirtualVault. The server tiers are different for VirtualVault 3.5 and VirtualVault 4.0. Each product's tier structure is listed immediately preceding the pricing information.

## Ordering Instructions

- Each VirtualVault order should consist of an LTU that matches with the customer's server and number of CPUs in the server, as well as a media product number. Optionally, customers may choose to order support or duplicate manuals. Purchase of the VirtualVault Media must have a prior or concurrent purchase of the VirtualVault License.
- For illustration, here is a sample order:

If you would like to buy VirtualVault 4.0 with US/Canada media (128-bit encryption) for an N4000 4-way server and you would like 24x365 phone-in and subscription support for one year, your order would consist of the following:

### License-to-use

B8759DA Opt. 001	Praesidium VirtualVault 4.0 Tier 4 First CPU License to Use	Quantity: 1
B8760DA Opt. 001	Praesidium VirtualVault 4.0 Tier 4 Add'l CPU LTU	Quantity: 3

### Media and Manuals

B5411DA	Praesidium VirtualVault 4.0 Server Media, Manuals - US/Canada	Quantity: 1
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### Phone-in and Subscription Support

B8759DA Opt. OS6	Praesidium VirtualVault 4.0 Tier 4 First CPU Support 1Yr	Quantity: 1
B5411DA Opt. BOO	Praesidium VirtualVault 4.0 Server Media - US/Canada support	Quantity: 1

## Upgrades

Customers who are moving from VirtualVault 3.5 on a server in one tier to VirtualVault 4.0 on a server in a different tier are entitled to "one free upgrade". For example, a VirtualVault 3.5 customer on a D-class 2-way server (which is in the VirtualVault 3.5 Tier 1) can move to a N4000/2-way system (which is in the VirtualVault 4.0 Tier 4) without purchasing any additional LTUs because this first upgrade is "free". However, if, at a later date, this same customer wants to purchase three additional CPUs for their N4000 system for example, the customer would have to purchase three "VirtualVault 4.0 Tier 4 Additional CPU License-to-use (LTUs)".

## Export Instructions

VirtualVault contains encryption, which is regulated by the US government as a munition, and, therefore, requires special export regulations. There are separate US/Canada (128-bit encryption) and international (40-bit) versions of this software. The international version is suitable for worldwide export. The US/Canada version can be exported to commercial companies worldwide with the exception of 12 countries: Afghanistan, Cuba, India, Montenegro, Iran, Iraq, Libya, Sudan, Syria, North Korea, Pakistan, and Serbia. Companies can use VirtualVault only for internal use or to communicate with their customers for the purpose of supporting or facilitating online merchant transactions. However, customers cannot use it to conduct end-to-end secure communication with other customers. HP is restricted from exporting VirtualVault to government entities or companies involved in the manufacturing or selling of munitions items or services. For more information please go to our export website at: <http://fissl.atl.hp.com/vault/export/>



For more information on VirtualVault

Internal sites:

<http://esp.cup.hp.com:2000/nav24/syssoft/iis/vvault/virtvault/>  
[http://issl.atl.hp.com/vault/public/data\\_sheet/A0400\\_data.pdf](http://issl.atl.hp.com/vault/public/data_sheet/A0400_data.pdf)

External Site:

<http://www.hp.com/security>

For questions about ordering, please contact the acting product manager, Dana Henrickson, at [dana\\_hendrickson@hp.com](mailto:dana_hendrickson@hp.com) or (408) T:447-1654.

## Praesidium VirtualVault 4.0

### New Pricing & Structure on November 1, 1999

Description	Product #	Opt #	Price
<b>The following tier structure is specific to VirtualVault 4.0 and is different from the HP-UX tiers.</b>			
<b>Tier 1: A180, A180C</b>			
<b>Tier 2: R390, D200, D210, D220, D250, D270 (32-bit mode), D370 (32-bit mode), D380 (32-bit mode), D390, E35, and E55</b>			
<b>Tier 3: K220, K260, K460, L1000 and L2000</b>			
<b>Tier 4: N4000, K370, K380, and K570</b>			
<b>Server Media and Manuals</b>			
<i>Select one media with appropriate encryption for customer's region or export approval status. Media includes one set of all VirtualVault 4.0 manuals. When buying support, also select a "B00" option to signal appropriate encryption level.</i>			
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Server Media - US/Canada (128-bit)</li> </ul>	B5411DA		
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Server Media - US/Canada (128-bit) Support</li> </ul>		B00	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Server Media - International (40-bit)</li> </ul>	B5412DA		
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Server Media - International (40-bit) Support</li> </ul>		B00	
<b>License-to-use (LTU) &amp; Support</b>			
<i>Select by machine tier and number of CPUs</i>			
<b>Tier 1</b>			
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 1 First CPU License-to-use</li> </ul>	B8748DA		
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 1 First CPU License-to-use</li> </ul>		001	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 1 First CPU Support 1 yr</li> </ul>		0S2	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 1 First CPU Support 1 yr</li> </ul>		0S3	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 1 First CPU Support 1 yr</li> </ul>		0S6	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 1 First CPU Support 3 yr</li> </ul>		3Y2	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 1 First CPU Support 3 yr</li> </ul>		3Y3	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 1 First CPU Support 3 yr</li> </ul>		3Y6	
<b>Tier 2</b>			
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 First CPU License-to-use</li> </ul>	B8755DA		
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 First CPU License-to-use</li> </ul>		001	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 First CPU Support 1 yr</li> </ul>		0S2	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 First CPU Support 1 yr</li> </ul>		0S3	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 First CPU Support 1 yr</li> </ul>		0S6	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 First CPU Support 3 yr</li> </ul>		3Y2	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 First CPU Support 3 yr</li> </ul>		3Y3	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 First CPU Support 3 yr</li> </ul>		3Y6	
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 Additional CPU License-to-use</li> </ul>	B8756DA		
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 2 Additional CPU License-to-use</li> </ul>		001	
<b>Tier 3</b>			
<ul style="list-style-type: none"> <li>• Praesidium VirtualVault 4.0 Tier 3 First CPU License-to-use</li> </ul>	B8757DA		

Description	Product #	Opt #	Price
Praesidium VirtualVault 4.0 Tier 3 First CPU License-to-use		001	
Praesidium VirtualVault 4.0 Tier 3 First CPU Support 1 yr		OS2	
Praesidium VirtualVault 4.0 Tier 3 First CPU Support 1 yr		OS3	
Praesidium VirtualVault 4.0 Tier 3 First CPU Support 1 yr		OS6	
Praesidium VirtualVault 4.0 Tier 3 First CPU Support 3 yr		3Y2	
Praesidium VirtualVault 4.0 Tier 3 First CPU Support 3 yr		3Y3	
Praesidium VirtualVault 4.0 Tier 3 First CPU Support 3 yr		3Y6	
• Praesidium VirtualVault 4.0 Tier 3 Additional CPU License-to-use	B8758DA		
Praesidium VirtualVault 4.0 Tier 3 Additional CPU License-to-use		001	
<b>Tier 4</b>			
• Praesidium VirtualVault 4.0 Tier 4 First CPU License-to-use	B8759DA		
Praesidium VirtualVault 4.0 Tier 4 First CPU License-to-use		001	
Praesidium VirtualVault 4.0 Tier 4 First CPU Support 1 yr		OS2	
Praesidium VirtualVault 4.0 Tier 4 First CPU Support 1 yr		OS3	
Praesidium VirtualVault 4.0 Tier 4 First CPU Support 1 yr		OS6	
Praesidium VirtualVault 4.0 Tier 4 First CPU Support 3 yr		3Y2	
Praesidium VirtualVault 4.0 Tier 4 First CPU Support 3 yr		3Y3	
Praesidium VirtualVault 4.0 Tier 4 First CPU Support 3 yr		3Y6	
• Praesidium VirtualVault 4.0 Tier 4 Additional CPU License-to-use	B8760DA		
Praesidium VirtualVault 4.0 Tier 4 Additional CPU License-to-use		001	
<b>Duplicate Manuals</b>			
<i>(Operation system manuals are now only online at: <a href="http://docs.hp.com/hpux/internet/">http://docs.hp.com/hpux/internet/</a>)</i>			
• Praesidium VirtualVault 4.0 Manuals	B5413DA		
Praesidium VirtualVault 4.0 User Manuals		001	
Praesidium VirtualVault 4.0 Integrator Manuals		002	
<b>Software Modules</b>			
<i>Praesidium VirtualVault 4.0 MirrorDisk</i>			
• Praesidium VirtualVault 4.0 MirrorDisk First Tier CPU License-to-use	B8676DA		
• Praesidium VirtualVault 4.0 MirrorDisk Additional Tier CPU License-to-use	B8677DA		
<i>Praesidium VirtualVault 4.0 SafePassage</i>			
• Praesidium VirtualVault 4.0 SafePassage First Tier LTU	B8749DA		
• Praesidium VirtualVault 4.0 SafePassage Additional Tier LTU	B8750DA		
<i>Praesidium VirtualVault 4.0 Partner Application Integration</i>			
• Praesidium VirtualVault 4.0 Partner Application Integration	B8751DA		
<i>Note: Partner Application Integration is not tier specific.</i>			
<b>Evaluation</b>			
<i>(60-day trial usage for customers only. Approval to order must be received from Dana Henrickson @ Telnet (408) 447-1654</i>			
• Praesidium VirtualVault 4.0 Evaluation Kit	B8761DA		
<b>Demo &amp; Development</b>			
<i>(For ISVs and VARs only. If new release updates are needed, support must be ordered.)</i>			
• Praesidium VirtualVault 4.0 Demo & Development License-to-use	B7969DA		
Praesidium VirtualVault 4.0 Demo & Development Support 1 yr		OS2	
Praesidium VirtualVault 4.0 Demo & Development Support 1 yr		OS3	
Praesidium VirtualVault 4.0 Demo & Development Support 1 yr		OS6	
<b>Encryption Upgrade</b>			
<i>(This enables international customers to upgrade to strong 128-bit US/Canada encryption. Export approval required.)</i>			
• Praesidium VirtualVault 4.0 Strong Encryption Export License Upgrade for International	B6406DA		
Praesidium VirtualVault 4.0 License-to-use Server		002	
<b>Credit</b>			
<i>(For upgrading to a HIGHER machine tier only)</i>			
<b>Tier 1</b>			
• Praesidium VirtualVault 4.0 Tier 1 First CPU License-to-use Credit	B8748DA	B9Q	

Description	Product #	Opt #	Price
<b>Tier 2</b>			
• Praesidium VirtualVault 4.0 Tier 2 First CPU License-to-use Credit	B8755DA	B9Q	
• Praesidium VirtualVault 4.0 Tier 2 Additional CPU License-to-use Credit	B8756DA	B9Q	
<b>Tier 3</b>			
• Praesidium VirtualVault 4.0 Tier 3 First CPU License-to-use Credit	B8757DA	B9Q	
• Praesidium VirtualVault 4.0 Tier 3 Additional CPU License-to-use Credit	B8758DA	B9Q	

## Praesidium VirtualVault 3.5

Description	Product #	Opt #	Price
<b>Tier 1: D200, D210, D220, D250, D270 (32-bit mode), D370 (32-bit mode), D380 (32-bit mode), D390, C and 700 series workstations</b>			
<b>Tier 2: K200, K210, K220, K460, J series workstations</b>			
<b>Tier 3: K370, K570 servers</b>			
• VirtualVault 3.5 Tier 1 First CPU LTU	B7667CA		
• VirtualVault 3.5 Tier 1 Addl CPU LTU	B7668CA		
• VirtualVault 3.5 Tier 2 First CPU LTU	B7669CA		
• VirtualVault 3.5 Tier 2 Addl CPU LTU	B7670CA		
• VirtualVault 3.5 Tier 3 First CPU LTU	B7671CA		
• VirtualVault 3.5 Tier 3 Addl CPU LTU	B7672CA		
• VirtualVault 3.5 Media Wkstn US/Canada	B5409CA		
• VirtualVault 3.5 Media Wkstn Int'l	B5410CA		
• VirtualVault 3.5 Media Server US/Canada	B5411CA		
• VirtualVault 3.5 Media Server Int'l	B5412CA		
• VirtualVault 3.5 Manuals	B5413CA		
User Manuals		001	
Integrator Manuals		002	
OS Manuals		003	
• VirtualVault Strong Encrypt Expt Upg LTU	B6406CA		
VirtualVault 3.5 Workstation LTU		001	
VirtualVault 3.5 Server LTU		002	
• VirtualVault Tier 1 License-to-use Subscription	B7673AA	001	
VirtualVault LTU US/Canada		002	
VirtualVault LTU International			
• VirtualVault Tier 2 License-to-use Subscription	B7674AA	001	
VirtualVault LTU US/Canada		002	
VirtualVault LTU International			
• VirtualVault Tier 3 License-to-use Subscription	B7675AA	001	
VirtualVault LTU US/Canada		002	
VirtualVault LTU International			
<b>Software Support - One-Year (Select 1 option to match LTU bought)</b>			
<b>Tier 1</b>			
• Praesidium VirtualVault 3.5 Tier 1 License-to-use Subscription	B7673AA		
Praesidium VirtualVault 3.5 Tier 1 License-to-use Subscription Workstation - US/Canada 1 yr		001	
Praesidium VirtualVault 3.5 Tier 1 License-to-use Subscription Workstation - International 1 yr		002	
Praesidium VirtualVault License-to-use Subscription Server - US/Canada 1 yr		003	
Praesidium VirtualVault License-to-use Subscription Server - International 1 yr		004	
<b>Tier 2</b>			
• Praesidium VirtualVault 3.5 Tier 2 License-to-use Subscription	B7674AA		
Praesidium VirtualVault 3.5 Tier 2 License-to-use Subscription Server - US/Canada 1 yr		001	
Praesidium VirtualVault 3.5 Tier 2 License-to-use Subscription Server - International 1 yr		002	
<b>Tier 3</b>			
• Praesidium VirtualVault 3.5 Tier 3 License-to-use Subscription	B7675AA		
Praesidium VirtualVault 3.5 Tier 3 License-to-use Subscription Server - US/Canada 1 yr		001	

Description	Product #	Opt #	Price
Praesidium VirtualVault 3.5 Tier 3 License-to-use Subscription Server - International 1 yr		002	
<b>Software Support - Three-Year (Select 1 option to match LTU bought)</b>			
<b>Tier 1</b>			
• Praesidium VirtualVault 3.5 Tier 1 License-to-use Subscription	B7673AA		
Praesidium VirtualVault 3.5 Tier 1 License-to-use Subscription Workstation - US/Canada 3 yr		005	
Praesidium VirtualVault 3.5 Tier 1 License-to-use Subscription Workstation - International 3 yr		006	
Praesidium VirtualVault License-to-use Subscription Server - US/Canada 3 yr		007	
Praesidium VirtualVault License-to-use Subscription Server - International 3 yr		008	
<b>Tier 2</b>			
• Praesidium VirtualVault 3.5 Tier 2 License-to-use Subscription	B7674AA		
Praesidium VirtualVault 3.5 Tier 2 License-to-use Subscription Server - US/Canada 3 yr		003	
Praesidium VirtualVault 3.5 Tier 2 License-to-use Subscription Server - International 3 yr		004	
<b>Tier 3</b>			
• Praesidium VirtualVault 3.5 Tier 3 License-to-use Subscription	B7675AA		
Praesidium VirtualVault 3.5 Tier 3 License-to-use Subscription Server - US/Canada 3 yr		003	
Praesidium VirtualVault 3.5 Tier 3 License-to-use Subscription Server - International 3 yr		004	
<b>Phone-In Assistance (PIA) (Select option to match LTU bought &amp; type of phone support)</b>			
<b>Tier 1</b>			
• Praesidium VirtualVault 3.5 Tier 1 First CPU License-to-use Phone-in Assistance (PIA)	B7667CA	OS2	
Praesidium VirtualVault 3.5 Tier 1 First CPU License-to-use Phone-in Assistance (PIA)		OS3	
Praesidium VirtualVault 3.5 Tier 1 First CPU License-to-use Phone-in Assistance (PIA)		OS6	
• Praesidium VirtualVault 3.5 Tier 1 Additional CPU Phone-in Assistance (PIA)	B7668CA	OS2	
Praesidium VirtualVault 3.5 Tier 1 Additional CPU Phone-in Assistance (PIA)		OS3	
Praesidium VirtualVault 3.5 Tier 1 Additional CPU Phone-in Assistance (PIA)		OS6	
<b>Tier 2</b>			
• Praesidium VirtualVault 3.5 Tier 2 First CPU Phone-in Assistance (PIA)	B7669CA	OS2	
Praesidium VirtualVault 3.5 Tier 2 First CPU Phone-in Assistance (PIA)		OS3	
Praesidium VirtualVault 3.5 Tier 2 First CPU Phone-in Assistance (PIA)		OS6	
• Praesidium VirtualVault 3.5 Tier 2 Additional CPU Phone-in Assistance (PIA)	B7670CA	OS2	
Praesidium VirtualVault 3.5 Tier 2 Additional CPU Phone-in Assistance (PIA)		OS3	
Praesidium VirtualVault 3.5 Tier 2 Additional CPU Phone-in Assistance (PIA)		OS6	
<b>Tier 3</b>			
• Praesidium VirtualVault 3.5 Tier 3 First CPU Phone-in Assistance (PIA)	B7671CA	OS2	
Praesidium VirtualVault 3.5 Tier 3 First CPU Phone-in Assistance (PIA)		OS3	
Praesidium VirtualVault 3.5 Tier 3 First CPU Phone-in Assistance (PIA)		OS6	
• Praesidium VirtualVault 3.5 Tier 3 Additional CPU Phone-in Assistance (PIA)	B7672CA	OS2	
Praesidium VirtualVault 3.5 Tier 3 Additional CPU Phone-in Assistance (PIA)		OS3	
Praesidium VirtualVault 3.5 Tier 3 Additional CPU Phone-in Assistance (PIA)		OS6	
<b>Demo &amp; Development (For ISVs and VARs only. If new release updates are needed, software subscription must be ordered. If phone assistance is needed, PIA needs to be ordered.)</b>			
• Praesidium VirtualVault 3.5 Demo & Development License-to-use	B7969CA		
• Praesidium VirtualVault 3.5 Demo & Development License-to-use Subscription	B7970CA		
Praesidium VirtualVault 3.5 Demo & Development License-to-use Subscription - US/Canada 1 yr		001	
Praesidium VirtualVault 3.5 Demo & Development License-to-use Subscription - International 1 yr		002	
Praesidium VirtualVault 3.5 Demo & Development License-to-use Subscription - US/Canada 3 yr		003	
Praesidium VirtualVault 3.5 Demo & Development License-to-use Subscription - International 3 yr		004	
<b>Encryption Upgrade (This enables international customers to upgrade to strong 128-bit US/Canada encryption)</b>			
• Praesidium VirtualVault 3.5 Strong Encryption Export License Upgrade for International	B6406CA		
Praesidium VirtualVault 3.5 Workstation License-to-use		001	
Praesidium VirtualVault 3.5 License-to-use Server		002	
<b>Credit (For upgrading to a HIGHER machine tier only)</b>			
<b>Tier 1</b>			
• Praesidium VirtualVault 3.5 Tier 1 First CPU License-to-use Credit	B7667CA	B9Q	
• Praesidium VirtualVault 3.5 Tier 1 Additional CPU License-to-use Credit	B7668CA	B9Q	



Description	Product #	Opt #	Price
<b>Tier 2</b>			
• Praesidium VirtualVault 3.5 Tier 2 First CPU License-to-use Credit	B7669CA	B9Q	
• Praesidium VirtualVault 3.5 Tier 2 Additional CPU License-to-use Credit	B7670CA	B9Q	
<b>Tier 3</b>			
• Praesidium VirtualVault 3.5 Tier 3 First CPU License-to-use	B7671CA	B9Q	
• Praesidium VirtualVault 3.5 Tier 3 Additional CPU License-to-use	B7672CA	B9Q	

## Praesidium DomainGuard Access

### Overview

DomainGuard is a web server authorization manager that allows you to ensure only authorized users have access to resources and transactions on a web server.

### How to order DomainGuard Access

For questions about ordering, please contact the product marketing manager, Daniel Dorr at (408) T:447-4682 or via e-mail at [daniel\\_dorr@hp.com](mailto:daniel_dorr@hp.com)

### DomainGuard Evaluation / Free copy

- Sign up on the web site ([www.hp.com/security](http://www.hp.com/security)) to receive a free, 50-user copy of DomainGuard Rules. This will not time-out, but is restricted to 50 users.

### DomainGuard User License

- You will need the below license (LTU) and product (Media) numbers. To obtain a quote for user licenses larger than 5000 please contact a SF 11 security specialist for your area, or the product marketing manager, Daniel Dorr at [daniel\\_dorr@hp.com](mailto:daniel_dorr@hp.com).

### DomainGuard Access

Users	Product Number	Price
100	B7687AA - UBD	
500	B7688AA - UBM	
1000	B7689AA - UD7	
2500	B7690AA - 2A4	
5000	B7691AA - UP4	

Media Number	
HPUX 11.0	B7684AA - 601
NT	B7685AA - 601
Solaris	B7686AA - 601
VirtualVault	B7683AA - 601

\* A 500 User license of DomainGuard Rules for HPUX would be LTU "B8032AA – UBM" to specify the product and users, plus Media "B7685AA – 601" to specify the platform and media; (plus support).

## DomainGuard Enterprise 1.0

DomainGuard Enterprise is an extranet portal security manager. DomainGuard Enterprise ensures users only authenticate once, only have access to exactly what you want them to see, and users can always have access to the information they need.

DomainGuard provides:

- Authentication
- Single sign-on
- Access control
- Administration

### Where to get help

- Your local HP security sales specialist (HP SF11)
- DomainGuard Product Manager, Daniel Dorr: 408-447-4682 or [daniel\\_dorr@hp.com](mailto:daniel_dorr@hp.com).

Helpful information when calling:

- What the customer wants to do?
- What kind of web servers and platforms?
- How many users?
- Time frame for deployment?

**How to order DomainGuard Enterprise 1.0**

DomainGuard Enterprise 1.0 should always be sold with deployment services to ensure a simple and positive customer deployment.

- 2-Day service: install and configure DGE on one web server and train on tools and product
- 1-Week service: install and configure DGE on multiple web servers using replication, set up sample log-in page and train on tools and product.

Currently, HPC has a number of consultants trained for these services in Asia, North and South America.

DomainGuard Evaluation

- Evaluation copies can be installed for by an HP SF 11 Security specialist, TC or trained channel partner.

**DomainGuard License\*:**

	Description	Product #	Opt #	Price
•	<b>DomainGuard Enterprise 1.0 License-to-use, 500 users</b>	B9071AZ		
	Customers must order consulting for this product. Consulting can be delivered by a channel partner or HPC. Typical consulting includes: Basic deployment- 2 days: install and configure IIS, LDAP and DomainGuard on one system. 1 year support, 8x5, next day 1 year support, 8x5, same day		OS2 OS3	
•	<b>DomainGuard Enterprise 1.0 License-to-use, 5000 users</b>	B9072AZ		
	Customers must order consulting for this product. Consulting can be delivered by a channel partner or HPC. Typical consulting includes: Production deployment - 1 week: install and configure IIS, LDAP and DomainGuard on multiple systems. Set up replication between systems. Use COM API for call-outs. Training. 1 year support, 8x5, next day 1 year support, 8x5, same day		OS2 OS3	
•	<b>DomainGuard Enterprise 1.0 License-to-use, 1000 Additional users</b>	B9075AZ		
	Must order B9071 or B9072, then order multiples of this product as needed. 1 year support, 8x5, next day 1 year support, 8x5, same day		OS2 OS3	
•	<b>DomainGuard Enterprise 1.0 License-to-use, 5000 Additional users</b>	B9076AZ		
	Must order B9072, then order multiples of this product as needed. 1 year support, 8x5, next day 1 year support, 8x5, same day		OS2 OS3	
•	<b>DomainGuard Enterprise 1.0 License-to-use, 25,000 Additional users</b>	B9077AZ		
	Must order B9072, then order multiples of this product as needed. 1 year support, 8x5, next day 1 year support, 8x5, same day		OS2 OS3	

\* DGE 1.0 is only for IIS on NT

NOTE: It is recommended to focus on deployments of up to 25,000 users until DomainGuard Enterprise 2.0 (Whistler) is available with a CORBA-based architecture. Customers with support will automatically be upgraded to DGE 2.0 when it is available (scheduled for June-July 2000).

## **Praesidium Authorization Server 3.5**

The Authorization Server engine and the Security Service are always behind the firewall, along with the Business Access Control repository. It is recommended that the Authorization Server Engine and Praesidium/Security Service (Pr/SS) reside on a standalone machine for the maximum protection. For high availability and reliability and overall load balancing, it is recommended that the Authorization Server Engine be replicated across multiple standalone machines.

Between the Web Browser and the Web Server, it is recommended that messages be encrypted using SSL 3.0 to protect messages that are sent across the Internet. Between the Web Server and the Authorization Server Engine messages may be encrypted as well. In some Intranets this is unnecessary overhead. In these safer environments, the Authorization Server "thin-clients" may be used. These "thin-clients" are CGI-bin scripts that provide unencrypted messaging for faster performance.

When the Web Server is an NT 4.0 platform, only "thin-clients" are available. Since the Web Server is behind a firewall this level of security is usually adequate. Needless encryption can slow down the overall performance of a system. If message encryption is required between a Web Server on HP-UX 10.20 and the Authorization Server, this can be accomplished by using the DCE version of the Web Server plug-in along with the DCE client library. When even more protection is required, for example - when the Web Server is outside the firewall - then it is recommended that Pr/VV be used. In the Virtual Vault environment, Pr/AS operations run on the "inside" compartment, which protects it from external tampering.

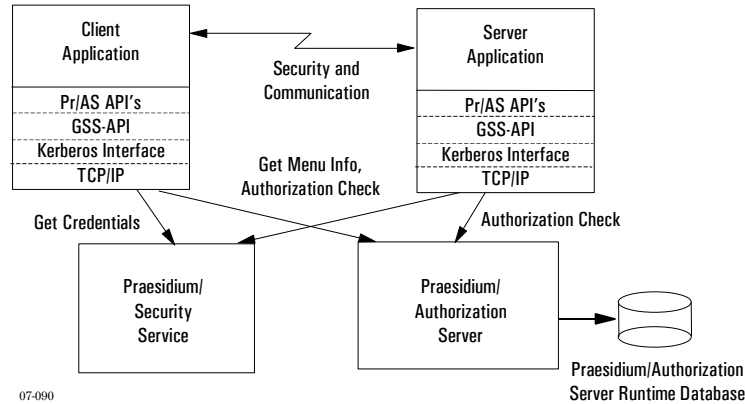
Pr/AS Plug-in is placed on the Web Server, along with Pr/AS application libraries. Pr/AS Plug-in is implemented using the Authorization Server's own client-server API's. Likewise, Pr/AS CGI scripting feature makes use of these same API's.

Pr/AS libraries are installed on the machines where the user applications are running or machines where the Web server is running. They provide an API for applications to send Authorization requests to Pr/AS.

Either Pr/SS or DCE/Security Service must be used to provide the necessary infrastructure for the Authorization Server. Optionally, Pr/SS or DCE may also be provide mutual authentication between the libraries and the server (and also between server replicas) and to secure communications. The Pr/SS is a Kerberos-based authentication and encryption service and comes bundled with the Authorization Server. However, in a DCE environment, Pr/AS can optionally be configured to use DCE instead of Pr/SS

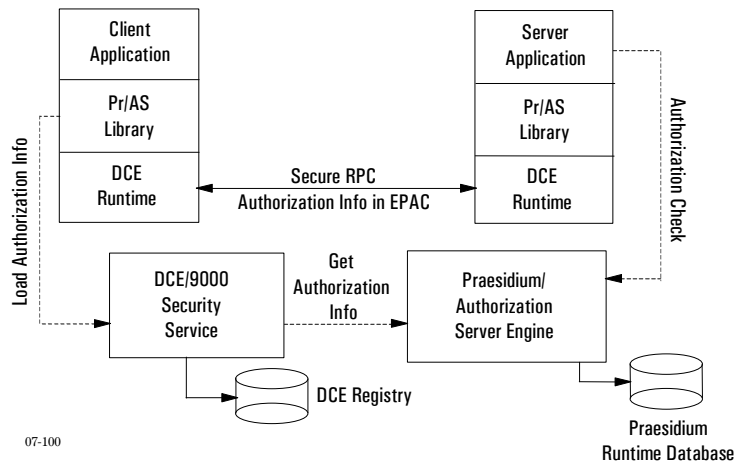
Pr/SS is a simplified version of the full OSF DCE product. The simplification is achieved by removing CDS, DFS, and DTS functionality thus making the product smaller and simpler to install and administer - then adding back in the ability to be a KDC for Kerberos, version 5 clients.

Praesidium/ Security Service in a Client-Server Environment



DCE/Security Service must be HP's DCE version 1.4 or higher.

DCE/ Security Service Client-Server Environment



2. Authentication

Praesidium/Security Service (Pr/SS) or DCE/Security Service may perform authentication of the individual users, which determine the true identity of a user. Alternatively, a third-party authentication mechanism (such as Entrust or a customer-specific mechanism) may be used. Pr/AS can function with user identities from PKI (Public Key Interface), Kerberos, or User/Passwords mechanisms.

In the Web environment, Netscape's authentication mechanisms are used by Pr/AS to authenticate users before authorizing them. This allows Pr/AS to utilize all authentication mechanisms supported by HTTP.

**Tested Configurations**

WEB Environment	Client/Server	All Environments
<b>Web Browser (on any client platform):</b> <ul style="list-style-type: none"> <li>• Netscape</li> <li>• Microsoft Explorer</li> <li>• Other browsers supporting standard HTTP and SSL</li> <li>• SSL 3.0</li> </ul>	<b>Clients:</b> <ul style="list-style-type: none"> <li>• Windows 95, NT 4.0</li> <li>• HP-UX 10.20</li> </ul>	Authorization Server Engine (recommended to have replicated copies): <ul style="list-style-type: none"> <li>• HP-UX 10.20</li> <li>• Netscape Directory Server – optional (for user and group administration)</li> </ul> Praesidium/Security Service 1.5 (bundled with Authorization Server) or HP DCE Service 1.4 or higher (bundled with HP-UX).
<b>Web Server:</b> Web Servers Supported: <ul style="list-style-type: none"> <li>• Netscape Enterprise Server 3.x</li> <li>• Running on HP-UX 10.20, or NT 4.0</li> </ul>	Application Platforms Supported: <ul style="list-style-type: none"> <li>• Windows NT 4.0</li> <li>• HP-UX 10.20</li> </ul>	For Praesidium/Authorization Server Administration: <ul style="list-style-type: none"> <li>• Netscape Enterprise Server 3.5.1</li> <li>• HP-UX 10.20 or NT 4.0</li> </ul> Netscape Browser on any client platform configured with SSL 3.0  For Praesidium/Security Service Administration: <ul style="list-style-type: none"> <li>• X-terminal or HP-UX workstation</li> </ul>

**Praesidium/ Authorization Server Configuration Requirements**

For the configurations described below, the following general rules apply:

1. All configuration information is for Pr/AS release 3.5.
2. It is recommended that the Authorization Server be replicated to eliminate a single point of failure, thereby improving the system availability.
  - a. Pr/AS Engine will not run on a machine that is configured as diskless.
  - b. Pr/AS **must** be run on a D-Class, E-Class, G-Class, H-Class, I-Class, K-Class T-Class, or better machine. It will not run on earlier hardware models.
  - c. The Authorization Server Engine **must** run on HP-UX 10.20 operating system
  - d. The Authorization Server Engine **must** have either Pr/SS or a DCE/Security Service and DCE/Directory. Pr/SS is bundled with Authorization Server.
  - e. When selected, DCE/Security Service must be HP version 1.4 or higher. Pr/AS does not support earlier revisions of a DCE Security Service.
- 3. The Client and Application for all platforms (Windows NT, AIX, VirtualVault, and HP-UX) and Web Server software are packaged as UNIX files and shipped on CD-ROM release media. The appropriate files are loaded onto the available HP-UX 10.20 system and copied to the Application Clients and Application Servers by means of networking commands (FTP). There is no requirement for the Clients and Application Servers to have the ability to read any media (CD-ROM, floppy disks, etc.).
4. Memory Requirements: In **Table 7.3** and **Table 7.4**, the memory sizes listed under “Minimum Runtime Machine Configuration” represent the total machine memory, and include the requirements for running both Pr/AS and the DCE or GSS-API interface. Note that the requirements in the table are for runtime environments only. For development environments, it is recommended that the PCs have 16-20 MB of memory and 90 MB of free disk space.
5. Applicable to PC-DCE/Gradient clients only: Any NT Platforms that will be used for DCE application development will require the MKS Toolkit. NT platforms that will be used for runtime only do not require the MKS Toolkit. The MKS Toolkit is a third-party application which is available from:
 

Mortice Kern Systems  
 35 King Street North,  
 Waterloo, Ontario,  
 Canada N2J 2W9  
 (519) 884-2251

6. Any PC Platforms (Windows 95, or NT) that will be used for application development will require the applicable Application Development Kit as well as the Microsoft Visual C++. A CD-ROM is also recommended.
7. Note: The NT 3.51 and 4.0 configurations have been verified only on the Intel platform. They have not been verified on the Alpha AXP platform.
8. Co-Requisites  
Netscape Enterprise Server, version 3.5.1 on HP-UX 10.20 or NT 4.0. This is required for running Pr/AS Administration tool. The Netscape server must exist somewhere in the Network.

In addition, customers must also have a desktop computer which has the Netscape 3.0 (or higher) browser.

In a Web-Browser environment, messages may be encrypted using SSL 3.0 to protect messages that are sent from the Web-Browser across the Internet to the Web-Server.

When running the Netscape Web Server under NT 4.0, messaging between the Authorization Server Plug-in and the Authorization Engine is un-encrypted and uses Pr/AS's "thin-clients". Likewise, under NT 4.0 messaging between the CGI scripting interface and the Authorization Engine is un-encrypted.

- In a client-server environment, platforms using the Authorization Server API's can optionally use DCE/Clients or Pr/SS's GSS-API. Either may be used for message encryption. This is recommended for maximum security but is not needed for Intranet installations. In the Intranet, "thin-clients" may be used which do not encrypt the communication stream thus improving performance between the applications and the Authorization Server engine.
- Optional Use of Public Key Infrastructure (PKI).
- When the customer intends to use PKI in a Web environment, the browser may use SSL 3.0 with X.509,V3 certificates for secure communication to Pr/AS. The customer can create the certificate by using the Netscape Certificate Server.
- In the Web environment, Pr/AS uses the Netscape Authentication service, Pr/AS also supports all authentication products supported by Netscape. It has been tested with Entrust, Verisign, GTE CyberTrust.
- In a client-server environment, a PKI toolkit can be purchased from VeriSign or Entrust.

## **Praesidium/Security Service (Bundled with Praesidium/Authorization Server)**

### **Description**

Praesidium/Security Service (Pr/SS) provides fundamental distributed security. It provides authentication and message encryption Pr/AS. In addition, it may be used for authentication of a user, to determine the true identity of that user. Pr/AS still requires the use of Pr/SS or DCE/Security Service for protecting interfaces between replicas of Authorization Server engine.

Pr/SS is a simplified version of the full OSF DCE product. The simplification is achieved by removing CDS, DFS, and DTS functionality thus making the product smaller and simpler to install and administer - then adding back in the ability to be a KDC for Kerberos, version 5 clients.

Pr/SS is not available as a standalone product. It can only be bought with Pr/AS.

### **Configuration**

Pr/SS is deployed in a combination of clients and servers. While HP offers both a Security Service server and a Security Service client, several heterogeneous configurations are supported, using the following rules:

- These rules are valid for the release 1.5 of Pr/SS.
- The Authorization Server engine and Security Service Server must be configured as one Kerberos realm.
- Clocks on the various platforms must be synchronized with a distributed time service.
- If one Security Server in a domain is a Pr/SS, then all the security servers must Pr/SS servers (i.e. no mix of DCE and Pr/SS servers in a single domain or cell)

**Prerequisites**

- 1) Pr/SS is supported on any HP platform supported by HP-UX 10.20, except diskless systems. It is recommended for systems running the client to have at least 32 MB of memory and 50 MB of swap space, and for systems running the server to have at least 64 MB of memory and 100 MB of swap space. The use of the Account Manager requires the availability of an X Windows terminal or workstation.
- 2) **Pr/SS requires the permanent synchronization of the system clocks.** It is recommended a distributed time service be used for this purpose. The systems on which Pr/SS master or slave replica executes should be physically secured and administered with particular care to avoid unauthorized access.
- 3) Pr/SS uses some components of the HP DCE/9000 products. Certain file sets that are bundled with the HP-UX operating system will have to be installed prior to using some features of Pr/SS.

**Software Configuration**

Customers in the United States and Canada who desire to take advantage of the confidentiality service of GSS-API must order and install the HP DCE/9000 DES Software product (B3863AA ) depending on the type of the system) on all their systems. Export of this software outside of the United States and Canada is strictly regulated by United States government agencies.

**Table 7.3 Memory Requirements for Communication Components from Web Server or Applications to Praesidium/Authorization Server**

Platform	Communications Interface to Authorization Server Engine	Minimum Machine Config. For Runtime Environments
Windows 95	Thin Client - no encryption	32 Mbytes RAM
NT 3.51	Thin Client - no encryption	32 Mbytes RAM
NT 4.0	Thin Client - no encryption	32 Mbytes RAM
HP-UX 10.20	Praesidium/Security Service GSS-API (using TCP/IP) or HP DCE RPC	64 Mbytes RAM, 50 Mbytes free disk space for swap space
AIX 3.2.5	DCE RPC (DCE Base OSF 1.0.3, IBM V1.3, IBM P/N 5765-117)	Base configuration
AIX 4.1.4	DCE RPC (DCS Base OSF 1.1, bundled with OS. Developers kit is IBM P/N 5765-532)	Base configuration
Web Browsers	SSL	Base configuration

\* See note #5b above. L

**Table 7.4 Memory Requirements for Authorization Server Engine and Security Service Server**

Server Engine Platform	Communications Interface	Minimum Machine Configuration
HP-UX 10.20	DCE RPC or GSS-API (using TCP/IP)	256 MB memory, 1 GB free disk space

**Licensing Model**

Pr/AS licensing requirements for the enterprise are determined simply by counting the total number of individuals identified to the Authorization Server and using a combination of Starter Kits and License-Only Packs cover the total user-count. Each Authorization Server Engine platform must have a Starter Kit installed on it. For example:

User has 1,200 users to support.  
 He wants to have 2 Authorization Server Engines for replication purposes

The user must purchase:

- 2 B7598BA Starter Kits (100 users each)
- 1 B7601BA 1,000 Users License-Only

**Table 7.5 Product Structure**

Description	Product #	# of Users	Price	Note
Praesidium/Authorization Server Starter Kit w/100 User-License and Media  Praesidium/Security Service included.  (Product also found on the HP-UX 10.20 December 1998 Application Release or later CD-ROM)	B7598BA	100		Product initially installs on HP-UX 10.20 system. Necessary components are then downloaded to Web Server and Application Servers, as needed. (See Pr/AS configuration requirement #3.)
Additional 100-User License-Only Pack	B7599BA	100		None
Additional 500-User License-Only Pack	B7600BA	500		None
Additional 1,000-User License-Only Pack	B7601BA	1,000		None
Additional 5,000-User License-Only Pack	B7602BA	5,000		None
Praesidium/Authorization Server Documentation Only	B7603BA	1		Full manual set
Praesidium/ Authorization Server Support for 100 user license	B7604BA	100		None
Praesidium/Security Service Documentation	B5407AA	1		Full manual set
DES Software for Praesidium/Security Service - US/Canada Media for HP 9000 Servers containing strong encryption software that is under US export restrictions..	B2915AA	unlimited		For US/Canada customers only
Authorization Server 90 Day Evaluation with 100 User License and Media	B7610BA	100		

**Miscellaneous**

**Terminology**

**Application Client:** The client portion of the customer’s application. It requests services from the Application Server. It may issue queries to Pr/AS and Pr/SS or DCE/Security Service for information about the privileges for the particular user who is logged on to the client.

**Application Server:** The server portion of the customer’s application. It processes the requests from the client. It issues queries to Pr/AS to test the privileges of the user who is requesting service. A typical configuration could have multiple Application Servers. An example of this would be a “three-tier architecture”.

**Authentication:** determining that a particular user or machine or process actually is who he/she claims to be.

**Authorization:** determining if the particular user is permitted to do the specific action that is requested in the user’s application.

**Authorization Server engine:** The core functionality of Pr/AS product. It accepts requests from Applications to verify whether a particular user is permitted access.

**Security Service:** Pr/SS or DCE/Security Service is used to provide secure communications between portions of the Pr/AS. In addition, they may be used for authentication of a user, to determine the true identity of that user. Optionally, authentication can be performed by another mechanism, such as a public key (PKI) system. However, Pr/AS still requires the use of Pr/SS or DCE/Security Service for protecting interfaces between replicas and between the client-side API libraries and Pr/AS.



## Praesidium Extranet VPN (Virtual Private Network), IPM (Internet Policy Manager), and AutoSOCKS Client

### Description

**Praesidium Extranet VPN** is a client/server software solution that enables corporations to develop stronger business relationships and forge closer ties with individuals and partners by allowing customized access to confidential information on the network over the internet. It has the following features and benefits:

**Intelligent SSL Compression.** Increases the performance of encrypting information by as much as 60 percent. If compression is not considered advantageous based on system inputs or Processor utilization, the server will automatically stop compression, providing users with the fastest possible connection. Corporations no longer have to choose between fast performance and high security.

**Secure Enterprise Explorer.** Allows secure access to selected 32-bit Windows-based file systems. Using an additional layer of security, network administrators can define which hosts or servers will be displayed or accessible to incoming users and groups, eliminating the opportunity for unauthorized individuals to access confidential and business-critical resources. Corporations can now be assured that their business partners, customers, or suppliers can access only those specific files that they have been given permission to view. The application is fully integrated into the standard Windows Explorer user interface, eliminating the need for end-user training.

**Customizer.** Simplifies client configuration and distribution by individual, user group, or access method. With this tool, network administrators can create customized configurations for tens or thousands of users in one step and then make them available to end users in a central, networked directory for easy access, download, and installation. This alleviates the need to configure each client one at a time.

**Time-Based Access.** Allows network administrators to restrict network access based on a specific day, time, and duration. This is particularly valuable when working with outside contractors or business partners who have specific start and end dates.

**Password Caching.** Improves performance as much as 25 percent and provides tighter security. Once a user has been authenticated, the network manager can clean out the cached password at specific intervals, requiring the user to re-enter his or her authentication credentials. This alleviates the possibility of a security breach that might occur if a user did not terminate their session and left their PC or laptop unattended.

**Additional Logging and Auditing Tools.** Enables network administrators to track information such as source, destination, ID, protocol, bytes sent and received, and duration of connection by session. All information received can be imported easily into an Excel or Access report. These reports can then be used to determine whether there has been a security breach and if so, its source of origin.

**NetWare and X.509 Digital Certificate Group Authorization.** Allows administrators to seamlessly transfer groups based on NetWare Directory Services and X.509 group directories into their VPN. Once the names have been entered, access parameters can be automatically assigned to the group, streamlining the process to one simple set-up.

### Praesidium Extranet VPN Internet Policy Manager (IPM)

Based on the IETF standard SOCKS v5, Praesidium Aventail Internet Policy Manager (IPM) is a high-speed proxy server that allows companies to easily develop, manage, and implement their corporate Internet security policies. Using an advanced proxy architecture, Praesidium Extranet VPN IPM is more secure and provides faster performance than packet or application-level products. Management is simplified with IPM Policy Builder, a unique administration tool that enables corporations to manage their Internet security policies and easily configure and administer Praesidium Aventail's server software. Praesidium Extranet VPN IPM also supports multiple operating system platforms and includes powerful security features such as sophisticated access controls, datastream filtering, support for multiple authentication methods, and intelligent auditing capabilities.

## Product Benefits

### Proxy Architecture Provides Industrial-Strength Security and Fast Performance

Praesidium Extranet VPN IPM proxies all traffic through any firewall and creates a secure connection by building user-specific proxies at the session layer. Its unique architecture eliminates any direct connections to the corporate network, allowing the IS manager to maintain a private address space through Network Address Translation (NAT) and preventing internal addresses from being exposed to the public network.

### Designed to Work In Any TCP/IP Internetworking Environment

Praesidium Extranet VPN IPM is based on the IETF-approved SOCKS v5 standard, which not only provides a high level of security but also enables interoperability with all firewall products. It is available for HP-UX and Windows NT.

### Policy Builder Makes Management Simple

Praesidium Extranet VPN IPM's Policy Builder is a unique feature that makes it easy for IS managers to create and edit access control policies, configure the server, and add or modify authentication and filtering modules to create an enforceable Internet policy. Once a policy is defined and implemented, an IS manager can inspect and view the policy.

### VPN-Ready

Unlike other stand-alone security technologies, Praesidium Extranet VPN IPM can be easily upgraded to a full-featured VPN product, allowing corporations to securely share information over the Internet with customers, suppliers, strategic partners, and mobile/remote employees

### Praesidium Extranet VPN AutoSOCKS

Without making any modifications to the desktop, Praesidium Extranet VPN AutoSOCKS enables any TCP and most UDP client applications to securely traverse any SOCKS v4 or SOCKS v5-based firewall or security server. Prior to Praesidium Extranet VPN AutoSOCKS, network managers had to configure each application individually. Praesidium Extranet VPN AutoSOCKS automates this procedure, simplifying what used to be an expensive, tedious, and complex process.

Praesidium Extranet VPN AutoSOCKS is based on the Internet Engineering Task Force (IETF) approved SOCKS security protocol. It is interoperable with any SOCKS v4 or v5 server including Praesidium Extranet VPN, Praesidium Extranet VPN IPM, IBM eNetwork Firewall, CyberGuard Firewall, Netscape Proxy Server, Sterling Communication's Firewall, Hewlett Packard's SOCK4 Proxy, Helius NetWare DirecPC, Wingate SOCKS5 Proxy, NEC Public Domain SOCKS4 Server, NEC Public Domain SOCKS5 Server, and NEC PrivateNet Firewall.

## Features and Benefits

### Non-Intrusive Client

- Makes no modifications to existing Windows applications, drivers, or transports.
- Seamlessly routes connections from Windows applications to external networks through any SOCKS server.
- Transparently negotiates authentication and encryption with SOCKS v5 server.



**Authenticated Firewall Traversal**

Praesidium Extranet VPN AutoSOCKS can securely pass all TCP and most UDP applications including:

- Java or ActiveX
- Custom Corporate
- WinSOCK v1.1

**Easy Network Administration**

- Comprehensive, yet simple network-based installation and configuration
- Includes a tracing utility for troubleshooting
- Online documentation and help
- Full install and uninstall on all Windows platforms
- Allows administrators to create customized client installations for wide-spread network distribution

**VPN-Ready**

Praesidium Extranet VPN AutoSOCKS can be easily updated to a full-featured VPN client that provides the following features:

- Users can automatically establish a secure connection over the Internet by simply clicking on any TCP or most UDP applications with a unique feature known as VPN-on-Demand™;
- Includes Secure Enterprise Explorer™, a VPN application that enables network administrators to provide access to selected 32-bit Windows-based file systems without compromising network security

**Easy Integration with Existing Security Infrastructure**

- Supports multiple authentication methods including, Username/Password, CHAP, RADIUS, Digital Certificates, Token Cards, and S/Key.

**Ordering Information**

Praesidium VPN, IPM, and AutoSOCKS can be ordered in Server/Client bundles, or in separate server and client products as shown below. They are available on the HP-UX and Windows NT platforms. Order the Media product number associated with your chosen platform and the License product for the same platform at your chosen number of servers/clients.

**Praesidium Extranet VPN**

**Praesidium Extranet VPN 3.1 (Available from June 1999)**

Description	Product #	Opt.	List Price
• Praesidium Extranet VPN 3.1 Client/Server Media NT	B7655C		
Praesidium Extranet VPN 3.1 Client/Server Media - 128-bit		601	
Praesidium Extranet VPN 3.1 Client/Server Media - 56-bit		602	
Praesidium Extranet VPN 3.1 Client/Server Media - 40-bit		603	
• Praesidium Extranet VPN 3.1 Client/Server Media HPUX	B7656C		
Praesidium Extranet VPN 3.1 Client/Server Media - 128-bit		601	
Praesidium Extranet VPN 3.1 Client/Server Media - 56-bit		602	
Praesidium Extranet VPN 3.1 Client/Server Media - 40-bit		603	
• Praesidium Extranet VPN 3.1 Client/Server Media Solaris	B7957C		
Praesidium Extranet VPN 3.1 Client/Server Media - 128-bit		601	
Praesidium Extranet VPN 3.1 Client/Server Media - 56-bit		602	
Praesidium Extranet VPN 3.1 Client/Server Media - 40-bit		603	
• Praesidium Extranet VPN 3.1 Internet Policy Manager (IPM) Server Media NT (AutoSOCKS Client is orderable separately)	B7892C		
Praesidium Extranet VPN 3.1 Internet Policy Manager (IPM) Server Media 40-bit Encryption		601	

Description	Product #	Opt.	List Price
• Praesidium Extranet VPN 3.1 Internet Policy Manager (IPM) Server Media HPUX (AutoSOCKS Client is orderable separately)	B7893C		
Praesidium Extranet VPN 3.1 Internet Policy Manager (IPM) Server Media - 40 bit Encryption		601	
• Praesidium Extranet VPN 3.1 Internet Policy Manager (IPM) Server Media Solaris (AutoSOCKS Client is orderable separately)	B7959C		
Praesidium Extranet VPN 3.1 Internet Policy Manager (IPM) Server Media - 40-bit Encryption		601	
• Praesidium Extranet VPN 3.1 50 Client/25 Server Connection License-to-use	B7625CZ		
Praesidium Extranet VPN 3.1 50 Client/25 Server Connection License-to-use		B9Z	
• Praesidium Extranet VPN 3.1 50 Client/25 Server Connection License-to-use Subscription	B7852CZ		
Praesidium Extranet VPN 3.1 50 Client/25 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.1 50 Client/25 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.1 50 Client/25 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.1 50 Client/25 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.1 50 Client/25 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.1 50 Client/25 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.1 50 Client/25 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.1 50 Client/25 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.1 50 Client/25 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.1 100 Client/50 Server Connection License-to-use	B7626CZ		
Praesidium Extranet VPN 3.1 100 Client/50 Server Connection License-to-use		B9Z	
• Praesidium Extranet VPN 3.1 100 Client/50 Server Connection License-to-use Subscription	B7853CZ		
Praesidium Extranet VPN 3.1 100 Client/50 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.1 100 Client/50 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.1 100 Client/50 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.1 100 Client/50 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.1 100 Client/50 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.1 100 Client/50 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.1 100 Client/50 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.1 100 Client/50 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.1 100 Client/50 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.1 25 Server Connection License-to-use	B7894CZ		
Praesidium Extranet VPN 3.1 25 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.1 25 Server Connection License-to-use Subscription	B7895CZ		
Praesidium Extranet VPN 3.1 25 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.1 25 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.1 25 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.1 25 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.1 25 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.1 25 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.1 25 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.1 25 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.1 25 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.1 50 Server Connection License-to-use	B7630CZ		
Praesidium Extranet VPN 3.1 50 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.1 50 Server Connection License-to-use Subscription	B7857CZ		
Praesidium Extranet VPN 3.1 50 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.1 50 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.1 50 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.1 50 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.1 50 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.1 50 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.1 50 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.1 50 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.1 50 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.1 100 Server Connection License-to-use	B7631CZ		
Praesidium Extranet VPN 3.1 100 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.1 100 Server Connection License-to-use Subscription	B7858CZ		
Praesidium Extranet VPN 3.1 100 Server Subscription HPUX - 128-bit		001	

Description	Product #	Opt.	List Price
Praesidium Extranet VPN 3.1 100 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.1 100 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.1 100 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.1 100 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.1 100 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.1 100 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.1 100 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.1 100 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.1 250 Server Connection License-to-use	B7632CZ		
Praesidium Extranet VPN 3.1 250 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.1 250 Server Connection License-to-use Subscription	B7859CZ		
Praesidium Extranet VPN 3.1 250 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.1 250 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.1 250 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.1 250 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.1 250 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.1 250 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.1 250 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.1 250 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.1 250 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.1 500 Server Connection License-to-use	B7633CZ		
Praesidium Extranet VPN 3.1 500 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.1 500 Server Connection License-to-use Subscription	B7860CZ		
Praesidium Extranet VPN 3.1 500 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.1 500 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.1 500 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.1 500 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.1 500 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.1 500 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.1 500 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.1 500 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.1 500 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.1 10 Client License-to-use	B7896CZ		
Praesidium Extranet VPN 3.1 10 Client License-to-use		2A2	
• Praesidium Extranet VPN 3.1 10 Client License-to-use Subscription	B7897CZ		
Praesidium Extranet VPN 3.1 10 Client Subscription Win/NT - 128-bit		001	
Praesidium Extranet VPN 3.1 10 Client Subscription Win/NT - 56-bit		002	
Praesidium Extranet VPN 3.1 10 Client Subscription Win/NT - 40-bit		003	
(These are client licenses - platform is Windows & NT)			
• Praesidium Extranet VPN 3.1 100 Client License-to-use	B7635CZ		
Praesidium Extranet VPN 3.1 100 Client License-to-use		2A2	
• Praesidium Extranet VPN 3.1 100 Client License-to-use Subscription	B7862CZ		
Praesidium Extranet VPN 3.1 100 Client Subscription Win/NT - 128-bit		001	
Praesidium Extranet VPN 3.1 100 Client Subscription Win/NT - 56-bit		002	
Praesidium Extranet VPN 3.1 100 Client Subscription Win/NT - 40-bit		003	
• Praesidium Extranet VPN 3.1 250 Client License-to-use	B7898CZ		
Praesidium Extranet VPN 3.1 250 Client License-to-use		2A2	
• Praesidium Extranet VPN 3.1 250 Client License-to-use Subscription	B7899CZ		
Praesidium Extranet VPN 3.1 250 Client Subscription Win/NT - 128-bit		001	
Praesidium Extranet VPN 3.1 250 Client Subscription Win/NT - 56-bit		002	
Praesidium Extranet VPN 3.1 250 Client Subscription Win/NT - 40-bit		003	
• Praesidium Extranet VPN 3.1 500 Client License-to-use	B7636CZ		
Praesidium Extranet VPN 3.1 500 Client License-to-use		2A2	
• Praesidium Extranet VPN 3.1 500 Client License-to-use Subscription	B7864CZ		
Praesidium Extranet VPN 3.1 500 Client Subscription Win/NT - 128-bit		001	
Praesidium Extranet VPN 3.1 500 Client Subscription Win/NT - 56-bit		002	
Praesidium Extranet VPN 3.1 500 Client Subscription Win/NT - 40-bit		003	
• Praesidium Extranet VPN 3.1 AutoSOCKS Client Media for Win/NT	B7900C		

Description	Product #	Opt.	List Price
Praesidium Extranet VPN 3.1 AutoSOCKS Client Media for Win/NT - No Encryption		601	
• Praesidium Extranet VPN 3.1 50 Internet Policy Manager (IPM) Server Connection License-to-use	B7644CZ		
Praesidium Extranet VPN 3.1 50 Internet Policy Manager (IPM) Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.1 50 Internet Policy Manager (IPM) Server Connection LTU Subscription	B7871CZ		
Praesidium Extranet VPN 3.1 50 Internet Policy Manager (IPM) Server Connection LTU Subscription		001	
HPUX 40-bit Encryption			
Praesidium Extranet VPN 3.1 50 Internet Policy Manager (IPM) Server Connection LTU Subscription		002	
NT 40-bit Encryption			
Praesidium Extranet VPN 3.1 50 Internet Policy Manager (IPM) Server Connection LTU Subscription		003	
Solaris 40-bit Encryption			
• Praesidium Extranet VPN 3.1 100 Internet Policy Manager (IPM) Server Connection License-to-use	B7645CZ		
Praesidium Extranet VPN 3.1 100 Internet Policy Manager (IPM) Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.1 100 Internet Policy Manager (IPM) Server Connection LTU Subscription	B7872CZ		
Praesidium Extranet VPN 3.1 100 Internet Policy Manager (IPM) Server Connection LTU Subscription		001	
HPUX 40-bit Encryption			
Praesidium Extranet VPN 3.1 100 Internet Policy Manager (IPM) Server Connection LTU Subscription		002	
NT 40-bit Encryption			
Praesidium Extranet VPN 3.1 100 Internet Policy Manager (IPM) Server Connection LTU Subscription		003	
Solaris 40-bit Encryption			
• Praesidium Extranet VPN 3.1 250 Internet Policy Manager (IPM) Server Connection License-to-use	B7646CZ		
Praesidium Extranet VPN 3.1 250 Internet Policy Manager (IPM) Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.1 250 Internet Policy Manager (IPM) Server Connection LTU Subscription	B7873CZ		
Praesidium Extranet VPN 3.1 250 Internet Policy Manager (IPM) Server Connection LTU Subscription		001	
HPUX 40-bit Encryption			
Praesidium Extranet VPN 3.1 250 Internet Policy Manager (IPM) Server Connection LTU Subscription		002	
NT 40-bit Encryption			
Praesidium Extranet VPN 3.1 250 Internet Policy Manager (IPM) Server Connection LTU Subscription		003	
Solaris 40-bit Encryption			
• Praesidium Extranet VPN 3.1 500 Internet Policy Manager (IPM) Server Connection License-to-use	B7647CZ		
Praesidium Extranet VPN 3.1 500 Internet Policy Manager (IPM) Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.1 500 Internet Policy Manager (IPM) Server Connection LTU Subscription	B7874CZ		
Praesidium Extranet VPN 3.1 500 Internet Policy Manager (IPM) Server Connection LTU Subscription		001	
HPUX 40-bit Encryption			
Praesidium Extranet VPN 3.1 500 Internet Policy Manager (IPM) Server Connection LTU Subscription		002	
NT 40-bit Encryption			
Praesidium Extranet VPN 3.1 500 Internet Policy Manager (IPM) Server Connection LTU Subscription		003	
Solaris 40-bit Encryption			
• Praesidium Extranet VPN 3.1 5 AutoSOCKS Client License-to-use	B7901CZ		
Praesidium Extranet VPN 3.1 5 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.1 5 AutoSOCKS Client License-to-use Subscription	B7902CZ		
Praesidium Extranet VPN 3.1 5 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
Praesidium Extranet VPN 3.1 25 AutoSOCKS Client License-to-use	B7903CZ		
Praesidium Extranet VPN 3.1 25 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.1 25 AutoSOCKS Client License-to-use Subscription	B7904CZ		
Praesidium Extranet VPN 3.1 25 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
• Praesidium Extranet VPN 3.1 50 AutoSOCKS Client License-to-use	B7955CZ		
Praesidium Extranet VPN 3.1 50 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.1 50 AutoSOCKS Client License-to-use Subscription	B7956CZ		
Praesidium Extranet VPN 3.1 50 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
• Praesidium Extranet VPN 3.1 100 AutoSOCKS Client License-to-use	B7648CZ		
Praesidium Extranet VPN 3.1 100 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.1 100 AutoSOCKS Client License-to-use Subscription	B7875CZ		
Praesidium Extranet VPN 3.1 100 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
• Praesidium Extranet VPN 3.1 500 AutoSOCKS Client License-to-use	B7649CZ		



Description	Product #	Opt.	List Price
Praesidium Extranet VPN 3.1 500 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.1 500 AutoSOCKS Client License-to-use Subscription	B7876CZ		
Praesidium Extranet VPN 3.1 500 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
Praesidium Extranet VPN 3.1 Client/Server Connection Evaluation License-to-use HPUX	B7981CZ		
Praesidium Extranet VPN 3.1 Client/Server Connection Evaluation License-to-use HPUX - 128-bit		100	
Praesidium Extranet VPN 3.1 Client/Server Connection Evaluation License-to-use HPUX - 40-bit		300	
• Praesidium Extranet VPN 3.1 Client/Server Connection Evaluation License-to-use NT	B7982CZ		
Praesidium Extranet VPN 3.1 Client/Server Connection Evaluation License-to-use NT - 128-bit		100	
Praesidium Extranet VPN 3.1 Client/Server Connection Evaluation License-to-use NT - 40-bit		300	
• Praesidium Extranet VPN 3.1 Client/Server Connection Evaluation License-to-use Solaris	B7983CZ		
Praesidium Extranet VPN 3.1 Client/Server Connection Evaluation License-to-use Solaris - 128-bit		100	
Praesidium Extranet VPN 3.1 Client/Server Connection Evaluation License-to-use Solaris - 40-bit		300	
• Praesidium Extranet VPN 3.1 Internet Policy Manager (IPM) Server Connection Evaluation License-to-use HPUX 40-bit Encryption	B7984CZ		
• Praesidium Extranet VPN 3.1 Internet Policy Manager (IPM) Server Connection Evaluation License-to-use NT 40-bit Encryption	B7985CZ		
• Praesidium Extranet VPN 3.1 Internet Policy Manager (IPM) Server Connection Evaluation License-to-use Solaris 40-bit Encryption	B7986CZ		
• Praesidium Extranet VPN 3.1 AutoSOCKS Client Evaluation License-to-use Win NT - No Encryption	B7987CZ		

\*See document on ordering different encryption products below. Document also is available on ESP.

**Praesidium Extranet VPN 3.01 (Available until May 31, 1999)**

Description	Product No.	Opt.	List Price
• Praesidium Extranet VPN 3.01 Client/Server Media NT	B7655B		
Praesidium Extranet VPN 3.01 Client/Server Media - 128-bit		601	
Praesidium Extranet VPN 3.01 Client/Server Media - 56-bit		602	
Praesidium Extranet VPN 3.01 Client/Server Media - 40-bit		603	
• Praesidium Extranet VPN 3.01 Client/Server Media HPUX	B7656B		
Praesidium Extranet VPN 3.01 Client/Server Media - 128-bit		601	
Praesidium Extranet VPN 3.01 Client/Server Media - 56-bit		602	
Praesidium Extranet VPN 3.01 Client/Server Media - 40-bit		603	
• Praesidium Extranet VPN 3.01 Client/Server Media Solaris	B7957B		
Praesidium Extranet VPN 3.01 Client/Server Media - 128-bit		601	
Praesidium Extranet VPN 3.01 Client/Server Media - 56-bit		602	
Praesidium Extranet VPN 3.01 Client/Server Media - 40-bit		603	
• Praesidium Extranet VPN 3.01 Internet Policy Manager (IPM) Server Media NT (AutoSOCKS Client is orderable separately)	B7892B		
Praesidium Extranet VPN 3.01 Internet Policy Manager (IPM) Server Media 40-bit Encryption		601	
• Praesidium Extranet VPN 3.01 Internet Policy Manager (IPM) Server Media HPUX (AutoSOCKS Client is orderable separately)	B7893B		
Praesidium Extranet VPN 3.01 Internet Policy Manager (IPM) Server Media - 40 bit Encryption		601	
• Praesidium Extranet VPN 3.01 Internet Policy Manager (IPM) Server Media Solaris (AutoSOCKS Client is orderable separately)	B7959B		
Praesidium Extranet VPN 3.01 Internet Policy Manager (IPM) Server Media 40-bit Encryption		601	
• Praesidium Extranet VPN 3.01 50 Client/25 Server Connection License-to-use	B7625BZ		
Praesidium Extranet VPN 3.01 50 Client/25 Server Connection License-to-use		B9Z	
• Praesidium Extranet VPN 3.01 50 Client/25 Server Connection License-to-use Subscription	B7852BZ		
Praesidium Extranet VPN 3.01 50 Client/25 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.01 50 Client/25 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.01 50 Client/25 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.01 50 Client/25 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.01 50 Client/25 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.01 50 Client/25 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.01 50 Client/25 Server Subscription Solaris - 128-bit		007	

Description	Product No.	Opt.	List Price
Praesidium Extranet VPN 3.01 50 Client/25 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.01 50 Client/25 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.01 100 Client/50 Server Connection License-to-use	B7626BZ		
Praesidium Extranet VPN 3.01 100 Client/50 Server Connection License-to-use		B9Z	
• Praesidium Extranet VPN 3.01 100 Client/50 Server Connection License-to-use Subscription	B7853BZ		
Praesidium Extranet VPN 3.01 100 Client/50 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.01 100 Client/50 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.01 100 Client/50 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.01 100 Client/50 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.01 100 Client/50 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.01 100 Client/50 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.01 100 Client/50 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.01 100 Client/50 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.01 100 Client/50 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.01 25 Server Connection License-to-use	B7894BZ		
Praesidium Extranet VPN 3.01 25 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.01 25 Server Connection License-to-use Subscription	B7895BZ		
Praesidium Extranet VPN 3.01 25 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.01 25 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.01 25 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.01 25 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.01 25 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.01 25 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.01 25 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.01 25 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.01 25 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.01 50 Server Connection License-to-use	B7630BZ		
Praesidium Extranet VPN 3.01 50 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.01 50 Server Connection License-to-use Subscription	B7857BZ		
Praesidium Extranet VPN 3.01 50 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.01 50 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.01 50 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.01 50 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.01 50 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.01 50 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.01 50 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.01 50 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.01 50 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.01 100 Server Connection License-to-use	B7631BZ		
Praesidium Extranet VPN 3.01 100 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.01 100 Server Connection License-to-use Subscription	B7858BZ		
Praesidium Extranet VPN 3.01 100 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.01 100 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.01 100 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.01 100 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.01 100 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.01 100 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.01 100 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.01 100 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.01 100 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.01 250 Server Connection License-to-use	B7632BZ		
Praesidium Extranet VPN 3.01 250 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.01 250 Server Connection License-to-use Subscription	B7859BZ		
Praesidium Extranet VPN 3.01 250 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.01 250 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.01 250 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.01 250 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.01 250 Server Subscription NT - 56-bit		005	





Description	Product No.	Opt.	List Price
Praesidium Extranet VPN 3.01 250 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.01 250 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.01 250 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.01 250 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.01 500 Server Connection License-to-use	B7633BZ		
Praesidium Extranet VPN 3.01 500 Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.01 500 Server Connection License-to-use Subscription	B7860BZ		
Praesidium Extranet VPN 3.01 500 Server Subscription HPUX - 128-bit		001	
Praesidium Extranet VPN 3.01 500 Server Subscription HPUX - 56-bit		002	
Praesidium Extranet VPN 3.01 500 Server Subscription HPUX - 40-bit		003	
Praesidium Extranet VPN 3.01 500 Server Subscription NT - 128-bit		004	
Praesidium Extranet VPN 3.01 500 Server Subscription NT - 56-bit		005	
Praesidium Extranet VPN 3.01 500 Server Subscription NT - 40-bit		006	
Praesidium Extranet VPN 3.01 500 Server Subscription Solaris - 128-bit		007	
Praesidium Extranet VPN 3.01 500 Server Subscription Solaris - 56-bit		008	
Praesidium Extranet VPN 3.01 500 Server Subscription Solaris - 40-bit		009	
• Praesidium Extranet VPN 3.01 10 Client License-to-use	B7896BZ		
Praesidium Extranet VPN 3.01 10 Client License-to-use		2A2	
• Praesidium Extranet VPN 3.01 10 Client License-to-use Subscription	B7897BZ		
Praesidium Extranet VPN 3.01 10 Client Subscription Win/NT - 128-bit		001	
Praesidium Extranet VPN 3.01 10 Client Subscription Win/NT - 56-bit		002	
Praesidium Extranet VPN 3.01 10 Client Subscription Win/NT - 40-bit		003	
(These are client licenses - platform is Windows & NT)			
• Praesidium Extranet VPN 3.01 100 Client License-to-use	B7635BZ		
Praesidium Extranet VPN 3.01 100 Client License-to-use		2A2	
• Praesidium Extranet VPN 3.01 100 Client License-to-use Subscription	B7862BZ		
Praesidium Extranet VPN 3.01 100 Client Subscription Win/NT - 128-bit		001	
Praesidium Extranet VPN 3.01 100 Client Subscription Win/NT - 56-bit		002	
Praesidium Extranet VPN 3.01 100 Client Subscription Win/NT - 40-bit		003	
• Praesidium Extranet VPN 3.01 250 Client License-to-use	B7898BZ		
Praesidium Extranet VPN 3.01 250 Client License-to-use		2A2	
• Praesidium Extranet VPN 3.01 250 Client License-to-use Subscription	B7899BZ		
Praesidium Extranet VPN 3.01 250 Client Subscription Win/NT - 128-bit		001	
Praesidium Extranet VPN 3.01 250 Client Subscription Win/NT - 56-bit		002	
Praesidium Extranet VPN 3.01 250 Client Subscription Win/NT - 40-bit		003	
• Praesidium Extranet VPN 3.01 500 Client License-to-use	B7636BZ		
Praesidium Extranet VPN 3.01 500 Client License-to-use		2A2	
• Praesidium Extranet VPN 3.01 500 Client License-to-use Subscription	B7864BZ		
Praesidium Extranet VPN 3.01 500 Client Subscription Win/NT - 128-bit		001	
Praesidium Extranet VPN 3.01 500 Client Subscription Win/NT - 56-bit		002	
Praesidium Extranet VPN 3.01 500 Client Subscription Win/NT - 40-bit		003	
• Praesidium Extranet VPN 3.01 AutoSOCKS Client Media for Win/NT	B7900B		
Praesidium Extranet VPN 3.01 AutoSOCKS Client Media for Win/NT - No Encryption		601	
• Praesidium Extranet VPN 3.01 50 Internet Policy Manager (IPM) Server Connection License-to-use	B7644BZ		
Praesidium Extranet VPN 3.01 50 Internet Policy Manager (IPM) Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.01 50 Internet Policy Manager (IPM) Server Connection LTU Subscription	B7871BZ		
Praesidium Extranet VPN 3.01 50 Internet Policy Manager (IPM) Server Connection LTU Subscription HPUX 40-bit Encryption		001	
Praesidium Extranet VPN 3.01 50 Internet Policy Manager (IPM) Server Connection LTU Subscription NT 40-bit Encryption		002	
Praesidium Extranet VPN 3.01 50 Internet Policy Manager (IPM) Server Connection LTU Subscription Solaris 40-bit Encryption		003	
• Praesidium Extranet VPN 3.01 100 Internet Policy Manager (IPM) Server Connection License-to-use	B7645BZ		
Praesidium Extranet VPN 3.01 100 Internet Policy Manager (IPM) Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.01 100 Internet Policy Manager (IPM) Server Connection LTU Subscription	B7872BZ		
Praesidium Extranet VPN 3.01 100 Internet Policy Manager (IPM) Server Connection LTU Subscription HPUX 40-bit Encryption		001	

Description	Product No.	Opt.	List Price
Praesidium Extranet VPN 3.01 100 Internet Policy Manager (IPM) Server Connection LTU		002	
Subscription NT 40-bit Encryption			
Praesidium Extranet VPN 3.01 100 Internet Policy Manager (IPM) Server Connection LTU		003	
Subscription Solaris 40-bit Encryption			
• Praesidium Extranet VPN 3.01 250 Internet Policy Manager (IPM) Server Connection License-to-use	B7646BZ		
Praesidium Extranet VPN 3.01 250 Internet Policy Manager (IPM) Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.01 250 Internet Policy Manager (IPM) Server Connection LTU	B7873BZ		
Subscription			
Praesidium Extranet VPN 3.01 250 Internet Policy Manager (IPM) Server Connection LTU		001	
Subscription HPUX 40-bit Encryption			
Praesidium Extranet VPN 3.01 250 Internet Policy Manager (IPM) Server Connection LTU		002	
Subscription NT 40-bit Encryption			
Praesidium Extranet VPN 3.01 250 Internet Policy Manager (IPM) Server Connection LTU		003	
Subscription Solaris 40-bit Encryption			
• Praesidium Extranet VPN 3.01 500 Internet Policy Manager (IPM) Server Connection License-to-use	B7647BZ		
Praesidium Extranet VPN 3.01 500 Internet Policy Manager (IPM) Server Connection License-to-use		2A1	
• Praesidium Extranet VPN 3.01 500 Internet Policy Manager (IPM) Server Connection LTU	B7874BZ		
Subscription			
Praesidium Extranet VPN 3.01 500 Internet Policy Manager (IPM) Server Connection LTU		001	
Subscription HPUX 40-bit Encryption			
Praesidium Extranet VPN 3.01 500 Internet Policy Manager (IPM) Server Connection LTU		002	
Subscription NT 40-bit Encryption			
Praesidium Extranet VPN 3.01 500 Internet Policy Manager (IPM) Server Connection LTU		003	
Subscription Solaris 40-bit Encryption			
• Praesidium Extranet VPN 3.01 5 AutoSOCKS Client License-to-use	B7901BZ		
Praesidium Extranet VPN 3.01 5 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.01 5 AutoSOCKS Client License-to-use Subscription	B7902BZ		
Praesidium Extranet VPN 3.01 5 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
• Praesidium Extranet VPN 3.01 25 AutoSOCKS Client License-to-use	B7903BZ		
Praesidium Extranet VPN 3.01 25 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.01 25 AutoSOCKS Client License-to-use Subscription	B7904BZ		
Praesidium Extranet VPN 3.01 25 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
• Praesidium Extranet VPN 3.01 50 AutoSOCKS Client License-to-use	B7955BZ		
Praesidium Extranet VPN 3.01 50 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.01 50 AutoSOCKS Client License-to-use Subscription	B7956BZ		
Praesidium Extranet VPN 3.01 50 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
• Praesidium Extranet VPN 3.01 100 AutoSOCKS Client License-to-use	B7648BZ		
Praesidium Extranet VPN 3.01 100 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.01 100 AutoSOCKS Client License-to-use Subscription	B7875BZ		
Praesidium Extranet VPN 3.01 100 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
• Praesidium Extranet VPN 3.01 500 AutoSOCKS Client License-to-use	B7649BZ		
Praesidium Extranet VPN 3.01 500 AutoSOCKS Client License-to-use		B9Y	
• Praesidium Extranet VPN 3.01 500 AutoSOCKS Client License-to-use Subscription	B7876BZ		
Praesidium Extranet VPN 3.01 500 AutoSOCKS Client License-to-use Subscription Win/NT - No Encryption		001	
• Praesidium Extranet VPN 3.01 Client/Server Connection Evaluation License-to-use HPUX	B7981AZ		
Praesidium Extranet VPN 3.01 Client/Server Connection Evaluation License-to-use HPUX - 128-bit		100	
Praesidium Extranet VPN 3.01 Client/Server Connection Evaluation License-to-use HPUX - 40-bit		300	
• Praesidium Extranet VPN 3.01 Client/Server Connection Evaluation License-to-use NT	B7982BZ		
Praesidium Extranet VPN 3.01 Client/Server Connection Evaluation License-to-use NT - 128-bit		100	
Praesidium Extranet VPN 3.01 Client/Server Connection Evaluation License-to-use NT - 40-bit		300	
• Praesidium Extranet VPN 3.01 Client/Server Connection Evaluation License-to-use Solaris	B7983BZ		
Praesidium Extranet VPN 3.01 Client/Server Connection Evaluation License-to-use Solaris - 128-bit		100	
Praesidium Extranet VPN 3.01 Client/Server Connection Evaluation License-to-use Solaris - 40-bit		300	

Description	Product No.	Opt.	List Price
• Praesidium Extranet VPN 3.01 Internet Policy Manager (IPM) Server Connection Evaluation License-to-use HPUX 40-bit Encryption	B7984BZ		
• Praesidium Extranet VPN 3.01 Internet Policy Manager (IPM) Server Connection Evaluation License-to-use NT 40-bit Encryption	B7985BZ		
• Praesidium Extranet VPN 3.01 Internet Policy Manager (IPM) Server Connection Evaluation License-to-use Solaris 40-bit Encryption	B7986BZ		
• Praesidium Extranet VPN 3.01 AutoSOCKS Client Evaluation License-to-use Win NT - No Encryption	B7987BZ		

## Ordering Encryption Products

### 1. INTRODUCTION

This living document helps HP field and customers place and ship non-US and Canadian orders restricted from export due to strong encryption.

There are **two recent major changes** affecting the export of encryption:

- 1.1 With effect from December 31, 1998, a **new US license exception** for encryption products became available for use.
- 1.2 HP has (and is in the process of obtaining) certain **broad US export licenses** (referred to as encryption license arrangements or **ELAs**) authorizing exports of certain HP products with cryptography. License exception **ENC** (ENCryption) and our export licenses have various limitations and conditions concerning the **types of customers** that may qualify to receive products under these authorizations, approved country destinations, and shipment reporting requirements.

### 2. 4-STEP PROCESS

To obtain full compliance, there are 4 steps to follow:

- 2.1 Product Identification
- 2.2 Country Identification
- 2.3 Customer Identification
- 2.4 Certification Letter

#### **2.1 Product Identification**

HP Export Administration (HPEA) has identified a list of products with cryptography that are eligible for export under this new procedure below:

##### **2.1.1 Praesidium VirtualVault**

The **product numbers** involved are for media:

- B5409BA & B5409CA,
- B5411BA & B5411CA,
- B6406BA & B6406CA.

**Authorized customers** under ENC or ELA:

- US subsidiaries in all countries except T7\*
- Banks in all except T7\*
- Financial institutions in all except 23 countries\*
- Insurance companies in all except 23 countries\*
- Health / Medical companies in all except 23 countries\*
- Commercial Enterprises in 43 countries\*
- Data processing services for financial institutions and insurance companies in all except 23 countries\*
- Channel partners for ultimate delivery to any of the customers listed above

You can find more information and flowcharts on exporting VirtualVault at:

<http://issl.atl.hp.com/vault/export/process/>

\*For details on countries, please see 2.2 on Country Identification.

**2.1.2 Praesidium e-Firewall**

The **product numbers** involved are for media:

- B7613A Option 604,
- B7617A Option 601,
- B7618A Option 601,
- B7968A Option 601.
- New e-Firewall Management Console media for HPUX, NT and Solaris whose product numbers are not yet available at time of printing also are part of this list.

**Authorized customers** under ENC or ELA:

- US subsidiaries in all countries except T7\*
- Financial institutions in all except 23 countries\*
- Insurance companies in all except 23 countries\*
- Health / Medical companies in all except 23 countries\*
- Data processing services for financial institutions and insurance companies in all except 23 countries\*
- Channel partners for ultimate delivery to any of the customers listed above

\*For details on countries, please see 2.2 on Country Identification.

**2.1.3 Praesidium Extranet VPN**

The **product numbers** involved are for media

- B7655A Option 601,
- B7656A Option 601.

**Authorized customers** under ENC or ELA:

- US subsidiaries in all countries except T7\*
- Financial institutions in all except 23 countries\*
- Insurance companies in all except 23 countries\*
- Health / Medical companies in all except 23 countries\*
- Commercial Enterprises in 43 countries\*
- Data processing services for financial institutions and insurance companies in all except 23 countries\*
- Channel partners for ultimate delivery to any of the customers listed above

\*For details on countries, please see 2.2 on Country Identification.

#### **2.1.4 CryptoFast Server Accelerator Board**

The **product numbers** involved are:

- A5484A,
- A5485A,
- A5486A.

**Authorized customers** under ENC or ELA:

- US subsidiaries in all countries except T7\*
- Financial institutions in 46 countries\*
- Insurance companies in 46 countries\*
- Health / Medical companies in 46 countries\*
- On-line Merchants in 46 countries\*
- Data processing services for financial institutions and insurance companies in 46 countries\*
- Channel partners for ultimate delivery to any of the customers listed above

If your order for any of the above products does not qualify for release under the procedure outlined in this document, then, a US individual validated export license (IVL) must be obtained before the order can be released.

### **2.2 Country Identification**

#### **2.2.1 List of T7\* Countries**

The US government has identified 7 countries as supporting terrorism:

Cuba, Iran, Iraq, Libya, North Korea, Sudan, Syria.

\*T stands for terrorist.

#### **2.2.2 List of 46 Countries**

This list of 46 countries can receive export of strong encryption products under ENC:

Anguilla, Antigua, Argentina, Aruba, Australia, Austria, Bahamas, Barbados, Belgium, Brazil, Canada, Croatia, Czech Republic, Denmark, Dominica, Ecuador, Finland, France, Germany, Greece, Hong Kong, Hungary, Iceland, Ireland, Italy, Japan, Kenya, Luxembourg, Monaco, Netherlands, New Zealand, Norway, Poland, Portugal, St. Kitts & Nevis, St. Vincent/Grenadines, Seychelles, Singapore, Spain, Sweden, Switzerland, Trinidad & Tobago, Turkey, Uruguay, United Kingdom, United States.

#### **2.2.3 List of 43 Countries**

The positive list of 43 countries that can receive exports of recoverable are all the above 46 except Croatia, Hong Kong, Singapore.

#### **2.2.4 List of 23 Countries**

The special list of 23 countries excluded under some ELAs is as follows:

Afghanistan, Cayman Islands, Chile, Peoples Republic of China, Colombia, Cuba, Dominican Republic, Iran, Iraq, Libya, Mexico, Nigeria, North Korea, Pakistan, Panama, Paraguay, Romania, Russian Federation, Sudan, Syria, Taiwan, Thailand, and Venezuela.

## **2.3 Customer Identification**

After identifying the product on the list in 2.1 and the country in 2.2, the next step is to identify the type of customer. The customer must conform to the definition for that customer type found in the US Export Regulations. If you doubt your customer's conformance to the appropriate definition, then, an individual validated export license must be obtained before the sales order can be released. You also can contact HP Export Administration on non-qualifying requests to discuss the possibilities for export of the product to the customer.

Customer definitions are as follows:

### **2.3.1 US Subsidiaries**

U.S. subsidiary, as applied to encryption items, means:

A foreign branch of a U.S. company; or

A foreign subsidiary or entity of a U.S. entity in which:

(1) The U.S. entity beneficially owns or controls (whether directly or indirectly) 25 percent or more of the voting securities of the foreign subsidiary or entity, if no other persons owns or controls (whether directly or indirectly) an equal or larger percentage; or

(2) The foreign entity is operated by the U.S. entity pursuant to the provisions of an exclusive management contract; or

(3) A majority of the members of the board of directors of the foreign subsidiary or entity also are members of the comparable governing body of the U.S. entity; or

(4) The U.S. entity has the authority to appoint the majority of the members of the board of directors of the foreign subsidiary or entity; or

(5) The U.S. entity has the authority to appoint the chief operating officer of the foreign subsidiary or entity.

### **2.3.2 Banks**

Banks, defined to include holding companies, community, regional, and money center banks as well as savings associations, trust companies and savings banks which are regulated under or in a manner consistent with Title 12 or Title 31 of the United States Code.

### **2.3.2 Financial Institution (including Banks)**

Financial institution, as applied to encryption items, means any of the following:

(1) A broker, dealer, government securities broker or dealer, self-regulatory organization, investment company or investment adviser, which is regulated or supervised by the Securities and Exchange Commission or a self-regulatory organization that is registered with the Securities and Exchange Commission; or

(2) A broker, dealer, government securities broker or dealer, investment company, investment adviser, or entity that engages in securities activities that, if conducted in the United States, would be described by the definition of the term "self-regulatory organization" in the Securities Exchange Act of 1934, which is organized under the laws of a foreign country and regulated or supervised by a foreign securities authority; or

(3) A U.S. board of trade that is designated as a contract market by the Commodity

Futures Trading Commission or a futures commission merchant that is regulated or supervised by the Commodity Futures Trading Commission; or

(4) A U.S. entity engaged primarily in the business of issuing a general purpose charge, debit, or stored value card, or a branch of, or affiliate controlled by, such an entity; or

(5) A branch or affiliate of any of the entities listed in paragraphs (a), (b), or (c) of this definition regulated or supervised by the Securities and Exchange Commission, the Commodity Futures Trading Commission, or a foreign securities authority; or

### **2.3.3 Insurance Companies**

A company organized and regulated under the laws of any of the United States and its branches and affiliates whose primary and predominant business activity is the writing of insurance or the reinsuring of risks; or a company organized and regulated under the laws of a foreign country and its branches and affiliates whose primary and predominant business activity is the writing of insurance or the reinsuring of risks.

### **2.3.4 Health / Medical**

Health/medical end-user, as applied to encryption items, means any entity, including civilian government agencies, the primary purpose of which is the provision of medical or other health services. The term medical or other health services includes the following items or services:

(1) Physicians' services and services and supplies furnished as an incident to a physician's professional service (such as laboratory services), of kinds which are commonly furnished in physicians' offices; services provided by a physician assistant or by a nurse practitioner; including services which would be physicians' services if furnished by a physician and which are performed by a physician assistant under the supervision of a physician, or services which would be physicians' services if furnished by a physician and which are performed by a nurse practitioner or clinical nurse specialist in collaboration with a physician; certified nurse-midwife services or services of a certified registered nurse anesthetist;

(2) Hospital services incident to physicians services rendered to outpatients and hospitalization services incident to such services; ambulance services;

(3) Psychologist services or clinical social worker services; or

(4) Health cost reimbursers (e.g., health insurers, HMOs).

### **2.3.5 On-line Merchant**

On-line merchant, as applied to encryption items, means an entity regularly engaged in lawful commerce that uses means of electronic communications (e.g., the Internet) to conduct commercial transactions.

### **2.3.6 Commercial Enterprises**

Except for government, military end users, firms engaged in the manufacture or distribution of munitions items, telecom's, ISP's.

### **2.3.5 Data Processing Service for Banks, Financial, Insurance**

An affiliate of any of the entities listed in paragraph (1), (2), (3), or (4) of the Financial Institution definition engaged solely in the business of providing data processing services to one or more bank or financial institutions, or a branch of such an affiliate.

## **2.4 Certification Letter**

At any time after qualifying the customer, the FSR may help the customer prepare to place an order. Use whatever procedures you would normally use, but you may want to postpone placing the order until you receive an acceptable Export Certification Letter, as described in 2.5.4 below.

### **2.4.1 Requirements Prior to Order Fulfillment (RPOF) Letter by FSR**

The HP **field sales representative** (FSR) must customize one of the appropriate attached letters with the this subject, "Requirements Prior to Order Fulfillment (RPOF)," for the customer.

### **2.4.2 Draft Customer Certification Letter by FSR**

When preparing the RPOF, include, as an attachment, a draft customer certification letter appropriate for that customer as described in "Export Certification Letter" below.

### **2.4.3 Mailing of RPOF Letter to Customer by FSR**

Once the RPOF letter has been customized, it must be sent by HP to the customer who is requesting for the export controlled product.

### **2.4.4 Export Certification Letter by FSR**

The RPOF letter must contain an attached template for an Export Certification Letter which the customer must reproduce on their letterhead. Once created, this letter must be signed by a duly authorized representative of the company requesting the export controlled product.

### **2.4.5 Export Certification Letter from Customer to FSR**

When the customer has completed the Export Certification Letter, it must be returned to the FSR. Fax copies are acceptable to initiate the process, but must be followed up via hardcopy. HP recommends that the hardcopy be sent via a path that can provide registered, person-to-person service, such as UPS or Federal Express.

### **2.4.6 Acceptability of Certification Letter by FSR**

As soon as the FSR receives the Export Certification Letter from the customer, the FSR should review the letter against the draft wording included with the RPOF letter sent to the customer.

The Export Certification Letter received from the customer must conform reasonably well with the draft wording included with the RPOF letter sent to the customer. This will help the FSR to determine acceptability of the Export Certification Letter.

#### **2.4.6.1 Questionable Certification Letter**

If there are any doubts about the acceptability of the customer's Export Certification Letter (for example, significant changes in wording or intent), consult Fred Mailman of the HP Export Administration Office before releasing the letter to SIDO.



### **3. ORDERS**

Regardless of the acceptability of the Export Certification Letter, the FSR should inform the customer when a determination has been made. If specific changes are required to the letter to make it conform to the draft wording, the FSR should insist that the customer made those changes and state that the order cannot be completed until required changes are made.

#### **3.1 Order for Strong Encryption Product**

If the Export Certification Letter is acceptable, the customer may place orders using normal ordering procedures. Include the FSR address and Telnet number with the ordering information, so that you can be contacted if any issues arise.

##### **3.1.1 Direct Express Shipment for Strong Encryption Product**

Product shipments may be delayed enroute to the customer's address by import/export regulations of the countries through which the shipment passes. To avoid unnecessary delays, clearly specify on the order that the product should be **express shipped direct** to customer.

Product shipments from the shipping entity, are normally consolidated with other package traffic destined for a common geographic area. This is a good economic practice for conventional products. For products containing strong cryptography, this can result in excessive importation and re-export delays in the countries where package consolidation takes place. This re-export delay is particularly true in a number of European countries. As an example, a shipment to a Scandinavian customer may be consolidated in Germany where German cryptography-related export regulatory processing may delay the shipment five to six weeks. To avoid unnecessary delays, clearly specify on the order that the product should be **express shipped direct** to customer.

##### **3.1.2 Customer Order Information for Certification Letter**

Once an acceptable Export Certification Letter is received from the customer, record the customer's order number, product number(s) and options on the Certification Letter. This ensures that SIDO will correctly match the sales order and certification. Include your address and Telnet number with the letter so that you can be contacted if any issues arise with the order.

##### **3.1.3 Certification Letter Submission to Supplying Division (SIDO or Roseville) Letter**

NOTE: The customer's order number provides the Supplying Division with an important cross-reference. Failure to provide this information may result in processing delays. The FSR needs to fax and also mail a hard copy of the certification letter to the Supplying Division.

###### **3.1.3.1 Fax Certification Letter to Supplying Division**

Once an acceptable Export Certification Letter is received from the customer, forward this letter along with the customer order information (as described above in 3.1.2 by fax to the appropriate Supplying Division:

Software & Information Delivery  
Operations (SIDO)  
Hewlett-Packard Company  
690 E. Middlefield Road M/S 30A  
Mountain View CA 94043  
Attention: Felice Iglesias  
Tel: 650-960-5355  
Fax: 650-960-5412

Roseville Site  
Hewlett-Packard Company  
8000 Foothills Blvd  
Roseville, CA 95747  
Attention: Becky Zamora  
Tel: 916-785-6470  
Fax: 916-785-6139

Alternatively, you may wish to call the Order Coordinator to provide this information.

### **3.1.3.2 Original Certification Letter to Supplying Division**

You must follow up this fax with the original signed Export Certification Letter express-mailed to the same destination. Note: International orders for these export controlled products will not be processed until the original signed Export Certification Letter is on file with the Order Coordinator.

### **3.2 Order Process for Supplying Division (SD)**

Since the order number is required on the original Export Certification Letter, the order will typically reach the Supplying Division first. The SD will accept the order and place it on TBA status, pending receipt of the original Export Certification letter.

When the SD receives the order from the customer, they will match the Certification Letter to the order so that it may be processed (or released, if the order was already placed and awaiting the Certification Letter).

If the SD cannot match an Export Certification Letter with an order number, or if there are any discrepancies between the letter and the order that has been placed, the SD will not process the order, but will inform the FSR of the discrepancies.

SD will ship product to the customer using normal channels.

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***Once the product has been shipped to the customer, the SD shall archive the Export Certification Letter. The SD also has a requirement to report certain export activity to the US Commerce Department at six-month intervals.***

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#### **Contacts:**

##### **1. Praesidium VirtualVault**

Michael Bridges at 404-648-8548

##### **2. Praesidium e-Firewall**

Lily Lu at 408-447-1850

##### **3. Praesidium Extranet VPN**

Lily Lu at 408-447-1850

##### **4. Praesidium PKC (Public Key Cryptography) Accelerator Card**

Julie Rockwell at 408-447-5913

## Praesidium e-Firewall

### Description

Praesidium e-Firewall offers complete protection for securing your network perimeter. Organizations around the world depend on the Praesidium e-Firewall's award-winning architecture and functionality to secure their private networks. The Praesidium e-Firewall's intuitive management interface and high performance, multi-threaded services, make it the most secure, manageable, and flexible solution for your enterprise Internet security needs.

The Praesidium e-Firewall for HP-UX and Windows NT provides complete network protection by integrating application-level proxies, network circuits and packet filtering into a unique perimeter security architecture. This data inspection technology ensures that the data entering and leaving your corporate network is validated at all levels of the protocol stack. In addition to security the Praesidium e-Firewall includes:

- The Raptor Management Console\* (RMC) for easy management of local and remote firewalls.
- Standards based VPN support (IPSec and Internet Key Exchange(IKE)) for connecting to remote offices and users.
- A comprehensive selection of strong user authentication alternatives.
- WebNOT and NewsNOT – the only firewall-integrated content blockers for filtering WWW and Internet Usenet groups
- High availability, which enables system failover for maximum security uptime.

\*Praesidium e-Firewall Raptor Management Console on HP-UX 10.20, NT 4.0 and Solaris 2.6 will be available from May 1, 1999.

### Ordering Information

Praesidium e-Firewall is available on the HP-UX and Windows NT platforms. Order the Media product number associated with your chosen platform and the License product for the same platform at your chosen number of users and that pertains to the shipping destination of the product (Domestic, International other than France, France)

### Praesidium e-Firewall v.4.0 for HP-UX & 6.0 for NT & Solaris (V.6.0 for HP-UX is expected to be available from July 1999)

Description	Product #	Opt #	Price
• Praesidium e-Firewall 6.0 Media NT	B7613A		
Praesidium e-Firewall 6.0 Server Media NT - International		602	
Praesidium e-Firewall 6.0 Server Media NT - France		603	
Praesidium e-Firewall 6.0 Server Media NT - US/Canada		604	
• Praesidium e-Firewall 1-100 License-to-use	B7614AZ		
Praesidium e-Firewall 1-100 License-to-use		B9Y	
• Praesidium e-Firewall 1-100 User License-to-use Subscription	B7849AZ		
Praesidium e-Firewall 1-100 User License-to-use Subscription NT - US/Canada		001	
Praesidium e-Firewall 1-100 User License-to-use Subscription NT - France		002	
Praesidium e-Firewall 1-100 User License-to-use Subscription NT - International		003	
• Praesidium e-Firewall HotSpare 1-100 License-to-use	B8058AZ		
Praesidium e-Firewall HotSpare 1-100 License-to-use		B9Y	
• Praesidium e-Firewall HotSpare 1-100 License-to-use Subscription	B8059AZ		
Praesidium e-Firewall HotSpare 1-100 License-to-use Subscription NT - US/Canada 1 yr		001	
Praesidium e-Firewall HotSpare 1-100 License-to-use Subscription NT - International 1 yr		002	
Praesidium e-Firewall HotSpare 1-100 License-to-use Subscription NT - France 1 yr		003	
• Praesidium e-Firewall 1-250 License-to-use	B7615AZ		
Praesidium e-Firewall 1-250 License-to-use		B9Y	
• Praesidium e-Firewall 1-250 User License-to-use Subscription	B7850AZ		
Praesidium e-Firewall 1-250 User License-to-use Subscription NT - US/Canada		001	

Description	Product #	Opt #	Price
Praesidium e-Firewall 1-250 User License-to-use Subscription NT - France		002	
Praesidium e-Firewall 1-250 User License-to-use Subscription NT - International		003	
• Praesidium e-Firewall HotSpare 1-250 License-to-use	B8060AZ		
Praesidium e-Firewall HotSpare 1-250 License-to-use		B9Y	
• Praesidium e-Firewall HotSpare 1-250 License-to-use Subscription	B8061AZ		
Praesidium e-Firewall HotSpare 1-250 License-to-use Subscription NT - US/Canada 1 yr		001	
Praesidium e-Firewall HotSpare 1-250 License-to-use Subscription NT - International 1 yr		002	
Praesidium e-Firewall HotSpare 1-250 License-to-use Subscription NT - France 1 yr		003	
• Praesidium e-Firewall Unlimited License-to-use	B7616AZ		
Praesidium e-Firewall Unlimited License-to-use		B9Y	
• Praesidium e-Firewall Unlimited User License-to-use Subscription	B7851AZ		
Praesidium e-Firewall Unlimited User License-to-use Subscription NT - US/Canada		001	
Praesidium e-Firewall Unlimited User License-to-use Subscription NT - France		002	
Praesidium e-Firewall Unlimited User License-to-use Subscription NT - International		003	
• Praesidium e-Firewall HotSpare Unlimited License-to-use Subscription	B8063AZ		
Praesidium e-Firewall HotSpare Unlimited License-to-use Subscription NT - US/Canada 1 yr		001	
Praesidium e-Firewall HotSpare Unlimited License-to-use Subscription NT - International 1 yr		002	
Praesidium e-Firewall HotSpare Unlimited License-to-use Subscription NT - France 1 yr		003	
• Praesidium e-Firewall VPN 6.0 Media NT	B7617A		
Praesidium e-Firewall VPN 6.0 Server Media NT - US/Canada		601	
Praesidium e-Firewall VPN 6.0 Server Media NT - International		602	
Praesidium e-Firewall VPN 6.0 Server Media NT - France		603	
• Praesidium e-Firewall VPN 4.0 Server Media HPUX	B7618A		
Praesidium e-Firewall VPN 4.0 Server Media HPUX - US/Canada		601	
Praesidium e-Firewall VPN 4.0 Server Media HPUX - International		602	
Praesidium e-Firewall VPN 4.0 Server Media HPUX - France		603	
• Praesidium e-Firewall VPN 6.0 Server Media Solaris	B7968A		
Praesidium e-Firewall VPN 6.0 Server Media Solaris - US/Canada		601	
Praesidium e-Firewall VPN 6.0 Server Media Solaris - International		602	
Praesidium e-Firewall VPN 6.0 Server Media Solaris - France		603	
• Praesidium e-Firewall VPN 1-25 License-to-use	B7619AZ		
Praesidium e-Firewall VPN 1-25 License-to-use		B9Y	
• Praesidium e-Firewall VPN 1-25 User License-to-use Subscription	B7845AZ		
Praesidium e-Firewall VPN 1-25 User License-to-use Subscription HPUX - US/Canada		001	
Praesidium e-Firewall VPN 1-25 User License-to-use Subscription HPUX - International		002	
Praesidium e-Firewall VPN 1-25 User License-to-use Subscription HPUX - France		003	
Praesidium e-Firewall VPN 1-25 User License-to-use Subscription NT - US/Canada		004	
Praesidium e-Firewall VPN 1-25 User License-to-use Subscription NT - International		005	
Praesidium e-Firewall VPN 1-25 User License-to-use Subscription NT - France		006	
Praesidium e-Firewall VPN 1-25 User License-to-use Subscription Solaris - US/Canada		007	
Praesidium e-Firewall VPN 1-25 User License-to-use Subscription Solaris - International		008	
Praesidium e-Firewall VPN 1-25 User License-to-use Subscription Solaris - France		009	
• Praesidium e-Firewall VPN HotSpare 1-25 License-to-use	B8064AZ		
Praesidium e-Firewall VPN HotSpare 1-25 License-to-use		B9Y	
• Praesidium e-Firewall VPN HotSpare 1-25 License-to-use Subscription	B8065AZ		
Praesidium e-Firewall VPN HotSpare 1-25 License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN HotSpare 1-25 License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN HotSpare 1-25 License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN HotSpare 1-25 License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN HotSpare 1-25 License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN HotSpare 1-25 License-to-use Subscription NT - France 1 yr		006	
Praesidium e-Firewall 6.0 VPN HotSpare 1-25 License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall 6.0 VPN HotSpare 1-25 License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall VPN HotSpare 1-25 License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN 1-100 License-to-use	B7620AZ		
Praesidium e-Firewall VPN 1-100 License-to-use		B9Y	
• Praesidium e-Firewall VPN 1-100 User License-to-use Subscription	B7846AZ		
Praesidium e-Firewall VPN 1-100 User License-to-use Subscription HPUX - US/Canada		001	

Description	Product #	Opt #	Price
Praesidium e-Firewall VPN 1-100 User License-to-use Subscription HPUX - International		002	
Praesidium e-Firewall VPN 1-100 User License-to-use Subscription HPUX - France		003	
Praesidium e-Firewall VPN 1-100 User License-to-use Subscription NT - US/Canada		004	
Praesidium e-Firewall VPN 1-100 User License-to-use Subscription NT - International		005	
Praesidium e-Firewall VPN 1-100 User License-to-use Subscription NT - France		006	
Praesidium e-Firewall VPN 1-100 User License-to-use Subscription Solaris - US/Canada		007	
Praesidium e-Firewall VPN 1-100 User License-to-use Subscription Solaris - International		008	
Praesidium e-Firewall VPN 1-100 User License-to-use Subscription Solaris - France		009	
• Praesidium e-Firewall VPN HotSpare 1-100 License-to-use	B8066AZ		
Praesidium e-Firewall VPN HotSpare 1-100 License-to-use		B9Y	
• Praesidium e-Firewall VPN HotSpare 1-100 License-to-use Subscription	B8067AZ		
Praesidium e-Firewall VPN HotSpare 1-100 License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN HotSpare 1-100 License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN HotSpare 1-100 License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN HotSpare 1-100 License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN HotSpare 1-100 License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN HotSpare 1-100 License-to-use Subscription NT - France 1 yr		006	
Praesidium e-Firewall 6.0 VPN HotSpare 1-100 License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall VPN HotSpare 1-100 License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall VPN HotSpare 1-100 License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN 1-250 License-to-use	B7621AZ		
Praesidium e-Firewall VPN 1-250 License-to-use		B9Y	
• Praesidium e-Firewall VPN 1-250 User License-to-use Subscription	B7847AZ		
Praesidium e-Firewall VPN 1-250 User License-to-use Subscription HPUX - US/Canada		001	
Praesidium e-Firewall VPN 1-250 User License-to-use Subscription HPUX - International		002	
Praesidium e-Firewall VPN 1-250 User License-to-use Subscription HPUX - France		003	
Praesidium e-Firewall VPN 1-250 User License-to-use Subscription NT - US/Canada		004	
Praesidium e-Firewall VPN 1-250 User License-to-use Subscription NT - International		005	
Praesidium e-Firewall VPN 1-250 User License-to-use Subscription NT - France		006	
Praesidium e-Firewall VPN 1-250 User License-to-use Subscription Solaris - US/Canada		007	
Praesidium e-Firewall VPN 1-250 User License-to-use Subscription Solaris - International		008	
Praesidium e-Firewall VPN 1-250 User License-to-use Subscription Solaris - France		009	
• Praesidium e-Firewall VPN HotSpare 1-250 License-to-use	B8068AZ		
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use		B9Y	
• Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription	B8069AZ		
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription NT - France 1 yr		006	
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall VPN HotSpare 1-250 License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN Unlimited License-to-use NT	B7622AZ		
Praesidium e-Firewall VPN Unlimited License-to-use NT		B9Y	
• Praesidium e-Firewall VPN Unlimited User License-to-use Subscription	B7848AZ		
Praesidium e-Firewall VPN 6.0 Unlimited User License-to-use Subscription NT - US/Canada		004	
Praesidium e-Firewall VPN 6.0 Unlimited User License-to-use Subscription NT - International		005	
Praesidium e-Firewall VPN 6.0 Unlimited User License-to-use Subscription NT - France		006	
• Praesidium e-Firewall VPN HotSpare Unlimited License-to-use	B8070AZ		
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use		B9Y	
• Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription	B8071AZ		
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription NT - France 1 yr		006	
• Praesidium e-Firewall VPN Unlimited License-to-use HPUX & Solaris	B7623AZ		
Praesidium e-Firewall VPN Unlimited License-to-use		B9Y	

Description	Product #	Opt #	Price
• Praesidium e-Firewall VPN Unlimited User License-to-use Subscription	B7848AZ		
Praesidium e-Firewall VPN Unlimited User License-to-use Subscription HPUX - US/Canada		001	
Praesidium e-Firewall VPN Unlimited User License-to-use Subscription HPUX - International		002	
Praesidium e-Firewall VPN Unlimited User License-to-use Subscription HPUX - France		003	
Praesidium e-Firewall VPN Unlimited User License-to-use Subscription Solaris - US/Canada		007	
Praesidium e-Firewall VPN Unlimited User License-to-use Subscription Solaris - International		008	
Praesidium e-Firewall VPN Unlimited User License-to-use Subscription Solaris - France		009	
• Praesidium e-Firewall VPN HotSpare Unlimited License-to-use HPUX & Solaris	B8072AZ		
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use		B9Y	
• Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription	B8073AZ		
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall VPN HotSpare Unlimited License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN 4.0 Evaluation License-to-use HPUX	B7976AZ		
Praesidium e-Firewall VPN 4.0 Evaluation License-to-use HPUX - US/Canada		100	
Praesidium e-Firewall VPN 4.0 Evaluation License-to-use HPUX - France		300	
• Praesidium e-Firewall VPN 6.0 Evaluation License-to-use NT	B7624AZ		
Praesidium e-Firewall VPN 6.0 Evaluation License-to-use NT - US/Canada		100	
Praesidium e-Firewall VPN 6.0 Evaluation License-to-use NT - France		300	
• Praesidium e-Firewall VPN 6.0 Evaluation License Solaris	B7977AZ		
Praesidium e-Firewall VPN 6.0 Evaluation License-to-use Solaris - US/Canada		100	
Praesidium e-Firewall VPN 6.0 Evaluation License-to-use Solaris - France		300	
• Praesidium e-Firewall 6.0 Management Console Media NT	B7971A		
Praesidium e-Firewall 6.0 Management Console Media NT - US/Canada		601	
Praesidium e-Firewall 6.0 Management Console Media NT - International		602	
Praesidium e-Firewall 6.0 Management Console Media NT - France		603	
• Praesidium e-Firewall 4.0 Management Console Media HPUX	B7972A		
Praesidium e-Firewall 4.0 Management Console Media HPUX - US/Canada		601	
Praesidium e-Firewall 4.0 Management Console Media HPUX - International		602	
Praesidium e-Firewall 4.0 Management Console Media HPUX - France		603	
• Praesidium e-Firewall 6.0 Management Console Media Solaris	B7973A		
Praesidium e-Firewall 6.0 Management Console Media Solaris - US/Canada		601	
Praesidium e-Firewall 6.0 Management Console Media Solaris - International		602	
Praesidium e-Firewall 6.0 Management Console Media Solaris - France		603	
• Praesidium e-Firewall Management Console First Copy License-to-use	B7974AZ		
• Praesidium e-Firewall Management Console First Copy License-to-use Subscription	B7990AZ		
Praesidium e-Firewall Management Console First Copy License-to-use Subscription HPUX - US/Canada		001	
Praesidium e-Firewall Management Console First Copy License-to-use Subscription HPUX - International		002	
Praesidium e-Firewall Management Console First Copy License-to-use Subscription HPUX - France		003	
Praesidium e-Firewall Management Console First Copy License-to-use Subscription NT - US/Canada		004	
Praesidium e-Firewall Management Console First Copy License-to-use Subscription NT - International		005	
Praesidium e-Firewall Management Console First Copy License-to-use Subscription NT - France		006	
Praesidium e-Firewall Management Console First Copy License-to-use Subscription Solaris - US/Canada		007	
Praesidium e-Firewall Management Console First Copy License-to-use Subscription Solaris - International		008	
Praesidium e-Firewall Management Console First Copy License-to-use Subscription Solaris - France		009	
• Praesidium e-Firewall Management Console Additional Copy License-to-use	B7975AZ		
• Praesidium e-Firewall Management Console Additional Copy License-to-use Subscription	B7991AZ		
Praesidium e-Firewall 4.0 Management Console Additional Copy License-to-use Subscription HPUX - US/Canada		001	
Praesidium e-Firewall 4.0 Management Console First Copy License-to-use Subscription HPUX - International		002	



Description	Product #	Opt #	Price
Praesidium e-Firewall 4.0 Management Console First Copy License-to-use Subscription HPUX - France		003	
Praesidium e-Firewall 6.0 Management Console First Copy License-to-use Subscription NT - US/Canada		004	
Praesidium e-Firewall 6.0 Management Console First Copy License-to-use Subscription NT - International		005	
Praesidium e-Firewall 6.0 Management Console First Copy License-to-use Subscription NT - France		006	
Praesidium e-Firewall 6.0 Management Console First Copy License-to-use Subscription Solaris - US/Canada		007	
Praesidium e-Firewall 6.0 Management Console First Copy License-to-use Subscription Solaris - International		008	
Praesidium e-Firewall 6.0 Management Console First Copy License-to-use Subscription Solaris - France		009	
• Praesidium e-Firewall 6.0 Management Console Evaluation License-to-use NT	B7978AZ		
Praesidium e-Firewall 6.0 Management Console Evaluation License-to-use NT - US/Canada		100	
Praesidium e-Firewall 6.0 Management Console Evaluation License-to-use NT - France		300	
• Praesidium e-Firewall 4.0 Management Console Evaluation License-to-use HPUX	B7979AZ		
Praesidium e-Firewall 4.0 Management Console Evaluation License-to-use HPUX - US/Canada		100	
Praesidium e-Firewall 4.0 Management Console Evaluation License-to-use HPUX - France		300	
• Praesidium e-Firewall 6.0 Management Console Evaluation License-to-use Solaris	B7980AZ		
Praesidium e-Firewall 6.0 Management Console Evaluation License-to-use Solaris - US/Canada		100	
Praesidium e-Firewall 6.0 Management Console Evaluation License-to-use Solaris - France		300	
Praesidium e-Firewall Remote 1-100 License-to-use	B8074AZ		
Praesidium e-Firewall Remote 1-100 License-to-use		B9Y	
• Praesidium e-Firewall Remote 1-100 License-to-use Subscription	B8075AZ		
Praesidium e-Firewall Remote 1-100 License-to-use Subscription NT - US/Canada 1 yr		001	
Praesidium e-Firewall Remote 1-100 License-to-use Subscription NT - International 1 yr		002	
Praesidium e-Firewall Remote 1-100 License-to-use Subscription NT -France 1 yr		003	
• Praesidium e-Firewall Remote HotSpare 1-100 License-to-use	B8076AZ		
Praesidium e-Firewall Remote HotSpare 1-100 License-to-use		B9Y	
• Praesidium e-Firewall Remote HotSpare 1-100 License-to-use Subscription	B8077AZ		
Praesidium e-Firewall Remote HotSpare 1-100 License-to-use Subscription NT - US/Canada 1 yr		001	
Praesidium e-Firewall Remote HotSpare 1-100 License-to-use Subscription NT - International 1 yr		002	
Praesidium e-Firewall Remote HotSpare 1-100 License-to-use Subscription NT -France 1 yr		003	
• Praesidium e-Firewall Remote 1-250 License-to-use	B8078AZ		
Praesidium e-Firewall Remote 1-250 License-to-use		B9Y	
• Praesidium e-Firewall Remote 1-250 License-to-use Subscription	B8079AZ		
Praesidium e-Firewall Remote 1-250 License-to-use Subscription NT - US/Canada 1 yr		001	
Praesidium e-Firewall Remote 1-250 License-to-use Subscription NT - International 1 yr		002	
Praesidium e-Firewall Remote 1-250 License-to-use Subscription NT - France 1 yr		003	
• Praesidium e-Firewall Remote HotSpare 1-250 License-to-use	B8080AZ		
Praesidium e-Firewall Remote HotSpare 1-250 License-to-use		B9Y	
• Praesidium e-Firewall Remote HotSpare 1-250 License-to-use Subscription	B8081AZ		
Praesidium e-Firewall Remote HotSpare 1-250 License-to-use Subscription NT - US/Canada 1 yr		001	
Praesidium e-Firewall Remote HotSpare 1-250 License-to-use Subscription NT - International 1yr		002	
Praesidium e-Firewall Remote HotSpare 1-250 License-to-use Subscription NT - France 1 yr		003	
• Praesidium e-Firewall Remote Unlimited License-to-use	B8082AZ		
Praesidium e-Firewall Remote Unlimited License-to-use		B9Y	
• Praesidium e-Firewall Remote Unlimited License-to-use Subscription	B8083AZ		
Praesidium e-Firewall Remote Unlimited License-to-use Subscription NT - US/Canada 1 yr		001	
Praesidium e-Firewall Remote Unlimited License-to-use Subscription NT - International 1 yr		002	
Praesidium e-Firewall Remote Unlimited License-to-use Subscription NT - France 1 yr		003	
• Praesidium e-Firewall Remote HotSpare Unlimited License-to-use	B8084AZ		
Praesidium e-Firewall Remote HotSpare Unlimited License-to-use		B9Y	
• Praesidium e-Firewall Remote HotSpare Unlimited License-to-use Subscription	B8085AZ		
Praesidium e-Firewall Remote HotSpare Unlimited License-to-use Subscription NT - US/Canada 1 yr		001	
Praesidium e-Firewall Remote HotSpare Unlimited License-to-use Subscription NT - International 1yr		002	
Praesidium e-Firewall Remote HotSpare Unlimited License-to-use Subscription NT - France 1 yr		003	
• Praesidium e-Firewall VPN Remote 1-100 License-to-use	B8092AZ		

Description	Product #	Opt #	Price
Praesidium e-Firewall VPN Remote 1-100 License-to-use		B9Y	
• Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription	B8087AZ		
Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription NT - France 1 yr		006	
Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall VPN Remote 1-100 License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use	B8088AZ		
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use		B9Y	
• Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription	B8089AZ		
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription NT - France 1 yr		006	
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall VPN Remote HotSpare 1-100 License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN Remote 1-250 License-to-use	B8090AZ		
Praesidium e-Firewall VPN Remote 1-250 License-to-use		B9Y	
• Praesidium e-Firewall VPN Remote 1-250 License-to-use Subscription	B8091AZ		
Praesidium e-Firewall VPN Remote 1-250 License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN Remote 1-250 License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN Remote 1-250 License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN Remote 1-250 License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN Remote 1-250 License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN Remote 1-250 License-to-use Subscription NT - France 1 yr		006	
Praesidium e-Firewall 6.0 VPN Remote 1-250 License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall 6.0 VPN Remote 1-250 License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall 6.0 VPN Remote 1-250 License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use	B8093AZ		
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use		B9Y	
• Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription	B8094AZ		
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription NT - France 1 yr		006	
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall VPN Remote HotSpare 1-250 License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN Remote Unlimited License-to-use NT	B8095AZ		



Description	Product #	Opt #	Price
Praesidium e-Firewall VPN Remote Unlimited License-to-use		B9Y	
• Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription	B8096AZ		
Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription NT - France 1 yr		006	
• Praesidium e-Firewall VPN Remote Unlimited License-to-use HPUX & Solaris	B8097AZ		
Praesidium e-Firewall VPN Remote Unlimited License-to-use		B9Y	
• Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription	B8098AZ		
Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall VPN Remote Unlimited License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use	B8099AZ		
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use		B9Y	
• Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription	B8100AZ		
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription HPUX - US/Canada 1 yr		001	
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription HPUX - International 1 yr		002	
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription HPUX - France 1 yr		003	
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription NT - US/Canada 1 yr		004	
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription NT - International 1 yr		005	
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription NT - France 1 yr		006	
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription Solaris - US/Canada 1 yr		007	
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription Solaris - International 1 yr		008	
Praesidium e-Firewall VPN Remote HotSpare Unlimited License-to-use Subscription Solaris - France 1 yr		009	
• Praesidium e-Firewall VPN 6.0 Remote Evaluation License-to-use NT	B8101AZ		
Praesidium e-Firewall VPN Remote Evaluation License-to-use NT - US/Canada		100	
Praesidium e-Firewall VPN Remote Evaluation License-to-use NT - France		300	
• Praesidium e-Firewall 4.0 VPN Remote Hotspare Evaluation License-to-use HPUX	B8102AZ		
Praesidium e-Firewall VPN Remote Hotspare Evaluation License-to-use HPUX - US/Canada		100	
Praesidium e-Firewall VPN Remote Hotspare Evaluation License-to-use HPUX - France		300	
• Praesidium e-Firewall VPN 6.0 Remote Hotspare Evaluation License-to-use Solaris	B8103AZ		
Praesidium e-Firewall VPN Remote Hotspare Evaluation License-to-use Solaris - US/Canada		100	
Praesidium e-Firewall VPN Remote Hotspare Evaluation License-to-use Solaris - France		300	
• Praesidium e-Firewall Mobile 1 Client License-to-use	B8104AZ		
Praesidium e-Firewall Mobile 1 Client License-to-use		2A2	
• Praesidium e-Firewall Mobile 1 Client License-to-use Subscription	B8105AZ		
Praesidium e-Firewall Mobile 1 Client License-to-use Subscription Win95/98 - US/Canada		010	
Praesidium e-Firewall Mobile 1 Client License-to-use Subscription Win95/98 - International		011	
Praesidium e-Firewall Mobile 1 Client License-to-use Subscription Win95/98 - France		012	
Praesidium e-Firewall Mobile 1 Client License-to-use Subscription Win NT - US/Canada		013	
Praesidium e-Firewall Mobile 1 Client License-to-use Subscription Win NT - International		014	
Praesidium e-Firewall Mobile 1 Client License-to-use Subscription Win NT - France		015	
• Praesidium e-Firewall Mobile 1 Client Evaluation License-to-use Win95/98	B8106AZ		
Praesidium e-Firewall Mobile 1 Client Evaluation License-to-use Win95/98 - US/Canada		100	
Praesidium e-Firewall Mobile 1 Client Evaluation License-to-use Win95/98 - France		300	
• Praesidium e-Firewall Mobile 1 Client Evaluation License-to-use Win NT	B8107AZ		
Praesidium e-Firewall Mobile 1 Client Evaluation License-to-use Win NT - US/Canada		100	



Description	Product #	Opt #	Price
Praesidium e-Firewall Mobile 1 Client Evaluation License-to-use Win NT - France		300	

\*For more information on ordering encryption products, please read the document on this topic in Praesidium Extranet VPN or on ESP.

\*\*The version for Solaris 2.6 will be available from May 1, 1999.

## Special Upgrade for HP Raptor Eagle Firewall Customers

### Attractive bonus package with 1 year's upgrade entitlement

A special firewall upgrade program will enable all HP customers who have bought Raptor Eagle firewall to continue getting the latest releases. And they don't even have to have active support contracts. This is simply because the Internet Security Division (ISD) values customers' purchases with HP and wants to increase their satisfaction and retain their loyalty to HP.

The firewall, now renamed Praesidium e-Firewall by ISD, is very aggressively priced and easy to order under this program.

For a nominal price, customers get a whole year's software media upgrades when upgrades become available. In addition, customers get an attractive bonus of a production-ready Praesidium DomainGuard Access 50-user license. Included in this package is a DomainGuard Access 500-user license upgrade coupon for an enterprise deployment. Customers also continue to get superb world-class customer service and support for all the Praesidium products.

The current 4.0 release of e-Firewall for HPUX is Y2K-compliant. The HPUX 6.0 release is expected to ship middle of the year. Praesidium e-Firewall v.6.0 for NT is now available, but is not part of this offer.

ISD has decided to launch this upgrade program because security is critical for corporations to safely and successfully engage in electronic business. Corporations have a continual need to update their security technologies with the latest functionality and features, especially those developed in response to new and sophisticated attacks devised by internal and external hackers.

The e-Firewall upgrade program runs from **March 1 to May 31, 1999**.

For more information, access:

<http://www.hp.com/security/firewallupgrade/>

<http://www.hp.com/security/products/firewall/>

<http://www.hp.com/security/products/domainguard/>

## Praesidium e-Firewall Upgrade Matrix

Program Effective from March 1 - May 31, 1999

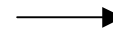
Product No.	Description	List Price	Upgrade Path	Product No.	Opt.	Description	List Price
J2748AA	Raptor Eagle Remote 50 Node License for HP 9000 Enterprise Servers		→	B7880AZ		Praesidium e-Firewall 1-100 License-to-use Special Media Upgrade Subscription HPUX	
					001	Praesidium e-Firewall VPN 1-100 License-to-use Special Media Upgrade Subscription HPUX Server - US/Canada	
					002	Praesidium e-Firewall VPN 1-100 License-to-use Special Media Upgrade Subscription HPUX Server - International	
					003	Praesidium e-Firewall VPN 1-100 License-to-use Special Media Upgrade Subscription HPUX Server - France	
J2747AA	Raptor Eagle Remote 200 Node License for HP 9000 Enterprise Servers		→	B7881AZ		Praesidium e-Firewall VPN 1-250 License-to-use Special Media Upgrade Subscription HPUX	
					001	Praesidium e-Firewall VPN 1-250 License-to-use Special Media Upgrade Subscription HPUX Server - US/Canada	
					002	Praesidium e-Firewall VPN 1-250 License-to-use Special Media Upgrade Subscription HPUX Server - International	
					003	Praesidium e-Firewall VPN 1-250 License-to-use Special Media Upgrade Subscription HPUX Server - France	
J2746AA	Raptor Eagle Remote Unlimited Node License for HP 9000 Enterprise Servers		→	B7882AZ		Praesidium e-Firewall VPN Unlimited License-to-use Special Media Upgrade Subscription HPUX	
					001	Praesidium e-Firewall VPN Unlimited License-to-use Special Media Upgrade Subscription HPUX Server - US/Canada	
					002	Praesidium e-Firewall VPN Unlimited License-to-use Special Media Upgrade Subscription HPUX Server - International	
					003	Praesidium e-Firewall VPN Unlimited License-to-use Special Media Upgrade Subscription HPUX Server - France	

J2754AA	Raptor Eagle Remote 50 Node License for HP 9000 Workstations	
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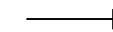
B7888AZ		Praesidium e-Firewall 1-100 License-to-use Special Media Upgrade Subscription HPUX Workstation	
	001	Praesidium e-Firewall VPN 1-100 License-to-use Special Media Upgrade Subscription HPUX Workstation - US/Canada	
	002	Praesidium e-Firewall VPN 1-100 License-to-use Special Media Upgrade Subscription HPUX Workstation - International	
	003	Praesidium e-Firewall VPN 1-100 License-to-use Special Media Upgrade Subscription HPUX Workstation - France	

J2753AA	Raptor Eagle Remote 200 Node License for HP 9000 Workstations	
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B7889AZ		Praesidium e-Firewall VPN 1-250 License-to-use Special Media Upgrade Subscription HPUX Workstation	
	001	Praesidium e-Firewall VPN 1-250 License-to-use Special Media Upgrade Subscription HPUX Workstation - US/Canada	
	002	Praesidium e-Firewall VPN 1-250 License-to-use Special Media Upgrade Subscription HPUX Workstation - International	
	003	Praesidium e-Firewall VPN 1-250 License-to-use Special Media Upgrade Subscription HPUX Workstation - France	

J2752AA	Raptor Eagle Remote Unlimited Node License for HP 9000 Workstations	
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B7890AZ		Praesidium e-Firewall VPN Unlimited License-to-use Special Media Upgrade Subscription HPUX Workstation	
	001	Praesidium e-Firewall VPN Unlimited License-to-use Special Media Upgrade Subscription HPUX Workstation - US/Canada	
	002	Praesidium e-Firewall VPN Unlimited License-to-use Special Media Upgrade Subscription HPUX Workstation - International	
	003	Praesidium e-Firewall VPN Unlimited License-to-use Special Media Upgrade Subscription HPUX Workstation - France	



## HP Praesidium Public Key Cryptography (PKC) Accelerator Card

The HP Praesidium Public Key Cryptography (PKC) Accelerator Card enhances customer security solutions by accelerating cryptographic functions. The card can dramatically improve the performance of a server that carries out Internet security authentication protocols, such as the Secure Sockets Layer (SSL).

The card features an on-board, public-key math processor that off-loads and speeds up the operations of the server's main processor. The card can run up to 200 transactions per second on a single board and process a transaction in less than 5 milliseconds. In a secure environment, with the card installed, the server's CPU is free to handle other tasks, significantly improving server performance.

Configuring HP Praesidium PKC Accelerator Card in HP servers provides several benefits. 1) Server response times during periods of peak performance are significantly improved; 2) General server capacity is enhanced allowing the server to handle more clients without degrading performance; 3) Using a separate encryption processor board keeps private key processing off the server, where it could become vulnerable.

HP Praesidium PKC Accelerator Card's easily installed, plug-and-play hardware board is designed specifically for the HP 9000 A-, D-, K-, and R- Class servers. The card is available in three form factors. A PCI card is available on the A-Class server. An HSC bus is available for the D- and R-Class. An HSC bus is also available on for the K-Class server.

As of first release (January 22, 1999), the card requires HP-UX 10.20. HP-UX 11.0 will be supported later this year (June, 1999). The card has been tested and supports the Netscape Enterprise Server 3.6. Future releases of the card driver will support Entrust File and Session Toolkits and the Verifone VGate product.

Note: This product is subject to U.S. munitions laws. For more information on ordering encryption products refer to "Ordering Encryption Products" in the Praesidium Extranet VPN Section of Chapter 7 of this Ordering Guide.

Description	Product #	Opt #	Price
<b>Praesidium Public Key Cryptography Accelerator Card</b>			
Ordering Instructions: This card purchase is subject to U.S. munitions laws. The card is available for shipment in the U.S. and Canada. Application for restricted worldwide shipment pending with the U.S. government.			
• Praesidium Public Key Cryptography (PKC) Accelerator Card HSC Format for K Class	A5484A		
• Praesidium Public Key Cryptography (PKC) Accelerator Card HSC Format for D and R Class	A5485A		
• Praesidium Public Key Cryptography (PKC) Accelerator Card PCI Format for K Class	A5486A		

Note: This product is subject to U.S. munitions laws. For more information on ordering encryption products refer to "Ordering Encryption Products" in the Praesidium Extranet VPN Section of Chapter 7 of this Ordering Guide.

## Internet Protocol (IP) Security (IPSec)/9000

Description	Product #	Opt #	Price
<b>IPSec 56-bit (World-Wide Release*)</b>	J4255AA		
<b>IPSec 128-bit (U.S. &amp; Canada Only **)</b>	J4256AA		

\*U.S. Export to World-wide Market. Local import restrictions may apply.

\*\*Broader U.S. export application pending.

HP Praesidium IPSec/9000 provides Virtual Private Network (VPN) capabilities for HP9000 servers with HP-UX 11.0 or higher. IPSec/9000 allows customers to set up secure host-to-host and host-to-gateway IPSec connections within their intranet and over the Public Internet. Encryption and authentication take place transparently to any hosted applications, and there is no need to modify legacy applications. IPSec/9000

supports Entrust and Verisign PKI certificates through a fully automatic enrollment process. A Java-based GUI provides easy-to-use operation and management. IPSec/9000 has demonstrated interoperability with over 15 different IPSec vendors. IPSec/9000 is available free of charge to all HP9000 server customers.

## HP Praesidium CDSA (Common Data Security Architecture) (Available June 1999)

HP Praesidium CDSA version 1.2 for HP-UX is HP's implementation of the Common Data Security Architecture. CDSA provides application program interfaces (APIs) that make computer platforms more secure for electronic commerce, communications, and digital content. Originally developed by Intel for Windows 95 and Windows NT 4.0, and now available on HP-UX free, CDSA enables software developers to use a single API to add security to their products.

Initial release of this product includes CDSA Framework, J4262AA (required), available to customer on the Application Release(AR)-CD and three versions of the Cryptographic Service Provider (CSP), available on HP's Software Depot at [www.software.hp.com](http://www.software.hp.com).

The CSP is subject to worldwide import, export, and usage restrictions on encryption. Hence HP has made three versions available. J4261AA is worldwide importable. J4259AA is worldwide exportable (some local import restrictions may apply). J4260AA is the strong encryption version of the product. At this time it is available to North American customers and others with a special license. Refer to ordering instructions on the Software Depot. For more information on ordering encryption products refer also to "Ordering Encryption Products" in the Praesidium Security Section of this Chapter (7) of the *HP 9000 Enterprise Server Ordering Guide*.

Description	Product #	Opt #	Price
<b>HP Praesidium CDSA (Common Data Security Architecture)</b>			
HP Praesidium CDSA Framework (Available on the AR-CD (Available in June))	J4262AA		
HP Praesidium Worldwide Importable CDSA CSP (available on Software Depot)	J4261AA		
HP Praesidium Worldwide Exportable CDSA CSP (available on Software Depot)	J4259AA		
HP Praesidium Strong Encryption CDSA CSP (available on Software Depot)	J4260AA		

## HP Apache-based web server v.1.3.x for HP-UX 11.0/11i

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li><b>HP Apache-based Web Server v.1.3.x for HP-UX 11.0 and 11i LTU</b> For HP 9000 Enterprise Servers, HP 9000 Workstations and HP Visualize Workstations. Product is available to download at no-charge at <a href="http://www.software.hp.com">www.software.hp.com</a> or on CD-ROM as part of the Applications Media Kit for HP-UX 11.0 or the HP-UX 11i OE media kit.</li> </ul>	B9415AA		

## iPlanet Web Server for HP-UX 11.0/11i for v.4.x per CPU

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li><b>11.0/11i iPlanet Web Server, 4.x US/Can per CPU LTU</b> For HP 9000 Enterprise Servers, HP 9000 Workstations</li> </ul>	J6361AC		
<ul style="list-style-type: none"> <li><b>11.0/11i iPlanet Web Server, 4.x Int'l per CPU LTU</b> For HP 9000 Enterprise Servers, HP 9000 Workstations</li> </ul>	T1179AC		

## Netscape Directory Server

### Overview

Hewlett-Packard provides Netscape's Lightweight Directory Access Protocol (LDAP)-compliant centralized directory service which customers can use to build an intranet or extranet. Netscape servers and other directory-enabled applications use the directory service as a common, network-accessible location for storing shared data such as user and group identification, server identification, and access control information. In addition, the Netscape Directory Server is extensible to support the entire enterprise with a global directory service that provides centralized management of an enterprise's resource information.

Directory V.4 is a new product superceding V.3. It only runs on HP-UX 11.x (both 32-bit and 64-bit) systems. Note: With the first release, Netscape Directory V. 4 is not supported in a ServiceGuard environment.

Description	Product #	Opt #	Price
<b>Netscape Directory Server V4</b>			
"Lite" version a single server version available at no charge on the application release CD-ROM. Support must be ordered separately. The "full" directory products provide customers with the option to upgrade to an enterprise directory.			
• Netscape Directory Server V4 "Lite Edition"	J4257AA		
• Netscape Directory Server V4 International 100 User Lic.	J4258AA		
• Netscape Directory Server V4 US/Canada Media	J4264AA		
Media contains encryption software that is under US export restriction. For US/Canada customers only			
• Netscape Directory Server V4 Additional User Lic.	J4265AA		
<b>Note:</b> Additional user licenses are not purchase agreement discountable			

## Zeus Web Server

The Zeus Web Server is a scalable web server providing solutions for ISP hosting, intranets and secure e-Commerce. This new web server software from Zeus has full FrontPage™ support, 128bit SSLv3 encryption worldwide, Apache compatibility and a web-centric delegable management interface.

With the Zeus Web Server application development in ISAPI, Java Servlets, secure CGI and others can all be easily undertaken and successfully implemented. The distributed server-side Java, supported by the server software, gives high-performance database connectivity.

This new product from Zeus also offers unlimited virtual servers with groupable configuration, real-time statistics, bandwidth throttling and extensive logging options. Thus, the Zeus Web Server v3 has the most comprehensive range of features offered by a commercial server software on sale today.

- **B8701AA (ZWS) for 10.20**  
Offers functionality not provided with Zeus Lite, for example 128-bit SSL, clustering support, load throttling, more than 5 virtual servers, etc.
- **B8701AA (ZWS) for 11.0, built on 10.20**  
The user is running 11.0 and requires functionality not provided with Zeus Lite, and needs to use 10.20 compiled NSAPI (or other) shared libraries.
- **B8702AA (Zeus Lite) for 10.20 or 11.0, built on 10.20**  
For users who need to use 10.20-compiled NSAPI (or other) shared libraries, and is running 11.0.



- **B8859AA (Zeus Lite) for 11.0, built on 11.0 (32-bit build)**  
If a user wants want to use 11.0-compiled NSAPI (or other) shared libraries, and is running 11.0. Performance may also be better than B8702AA for 11.0
- **B8860AA (ZWS) for 11.0, built on 11.0 (32-bit build)**  
The user is running 11.0 and requires functionality not provided with Zeus Lite, for example 128-bit SSL, clustering support, load throttling, etc. The use may also want to use 11.0-compiled NSAPI shared libraries. Performance may also be better than B8701AA for 11.0

	Description	Product #	Opt #	Price
	<b>Zeus Web Server</b>			
•	Zeus Full Version 128 Bit encryption	B8701AA		
•	Zeus Lite 40 Bit encryption	B8702AA	0D1	
•	Zeus Lite for 11.0	B8859AA		
•	Zeus Full for 11.0	B8860AA		





## Programming Languages

### C/ANSI C Compiler

	Description	Product #	Opt #	Price
•	<b>HP C/ANSI C Developer's Bundle License for Server</b>	B3901BA		
	System license for C/ANSI C compiler, DDE, wdb (HP-UX 10.20 and later), and HP-UX Developer's Toolkit. Must specify which System license. Support for HP-UX 10.01 or later. Must order manuals separately (B6237AA). Release notes (installation notes, etc.) are included.			
	Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370		AH0	
	Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
	Tier 3 – T500, T520, T600, 890, V-Class		AEP	
	Upgrade credit on Processor Tier 1 (AH0)		OGR	
	Upgrade credit on Processor Tier 2 (AE5)		OC8	
	Single Processor License - for Superdome orders only		2AH	
	Instant Ignition		OD1	
	•	<b>HP C/ANSI C Developer's Bundle Manuals</b>	B6237AA	
HP-UX version 11.0			UM4	
HP-UX version 10.20			APZ	
HP-UX version 10.10			APX	
HP-UX version 10.01			APS	

### ANSI draft C++ Compiler

	Description	Product #	Opt #	Price
•	<b>HP aC++ Bundle License for Server</b>	B3913DB		
	User license for ANSI draft C++ compiler, DDE, wdb (HP-UX 10.20 and later), C++ standard library with Standard Template Libraries, Rogue Wave tools.h++. Support for 10.10 or later. Release notes (installation notes, etc.) are ordered through option AVN.			
	Instant Ignition		OD1	
	Release Notes		AVN	

### HP Micro Focus COBOL/Merant Micro Focus Server Express

\* Note: Version 1.0 will be replaced by version 2.0. Version 1.0 is not available on 11i

	Description	Product #	Opt #	Price
•	<b>Merant Micro Focus Server Express version 2.0* (32 bit and 64 bit)</b>	B8840BB		
	User license (under license enforcement) for Merant's next generation COBOL product. License is needed for each developer on the system to access the development environment (i.e. compiler, native debugger, file handler, fault finder, and Dialog). Software, documentation CD and release notes are purchased through option AAF. CD-ROM - software, documentation CD and release notes			AAF
•	<b>Merant Micro Focus Application Server version 2.0* (32 bit and 64 bit)</b>	B8841BB		
	Concurrent user license (under license enforcement) for the Run-time environment of Server Express. License is needed for each concurrent user who would be accessing the application compiled under Server Express. This product offers the license in packs of 5 concurrent user licenses. Software and release notes are purchased through option AAF. CD-ROM - software, and release notes			AAF
•	<b>Merant Micro Focus Application Server version 2.0* (32 bit and 64 bit)</b>	B8842BC		
	Processor license (under license enforcement) for the Run-time environment of Server Express. License is needed for each processor (irregardless of number of users) that an application compiled under Server Express will run on (vs. the concurrent user license version of this product, B8841AB). Software and release notes are purchased through option AAF.			

Description	Product #	Opt #	Price
CD-ROM - software, and release notes		AAF	
• <b>Merant Micro Focus Server Express version 1.0* (32 bit)</b>	B8840AB		
User license (under license enforcement) for Merant's next generation COBOL product. License is needed for each developer on the system to access the development environment (i.e. compiler, native debugger, file handler, fault finder, and Dialog). Software, documentation CD and release notes are purchased through option AAF.			
CD-ROM - software, documentation CD and release notes		AAF	
• <b>Merant Micro Focus Application Server version 1.0* (32 bit)</b>	B8841AB		
Concurrent user license (under license enforcement) for the Run-time environment of Server Express. License is needed for each concurrent user who would be accessing the application compiled under Server Express. This product offers the license in packs of 5 concurrent user licenses. Software and release notes are purchased through option AAF.			
CD-ROM - software, and release notes		AAF	
• <b>Merant Micro Focus Application Server version 1.0* (32 bit)</b>	B8842AC		
Processor license (under license enforcement) for the Run-time environment of Server Express. License is needed for each processor (irregardless of number of users) that an application compiled under Server Express will run on (vs. the concurrent user license version of this product, B8841AB). Software and release notes are purchased through option AAF.			
CD-ROM - software, and release notes		AAF	
• <b>HP Micro Focus Object COBOL Developer's Suite</b>	B2433EB		
Floating user license (under license enforcement) including HP Micro Focus Object COBOL compiler and HP Micro Focus Run Time Pack, Animator debugger, Dialog System and Toolbox. Based on Micro Focus COBOL version 4.1.			
Release notes (installation, etc.) are ordered with option AVN. Documentation is separately ordered (B5449EA).			
Instant Ignition		OD1	
Release notes		AVN	
• <b>HP Micro Focus Object COBOL Run Time Package</b>	B2435EB		
Concurrent license to use for 5 client HP Micro Focus Object COBOL RunTime licenses and 1 server license for HP Micro Focus Object COBOL RunTime. Release notes (installation, etc.) are ordered via option AVN. Not Purchase Agreement Discountable			
Instant Ignition		OD1	
Release notes		AVN	
• <b>HP Micro Focus Object COBOL Documentation</b>	B5449EA		
Must specify OS release required			
HP-UX 11.0		UM4	
HP-UX 10.20		APZ	
• <b>HP Micro Focus COBOL/UX Developer's Suite</b>	B2433DB		
Concurrent license-to-use including HP Micro Focus COBOL Compiler, HP Micro Focus Run-Time system, "convert3," "convert5", Forms 2, the Animator debugger, Dialog System, Toolbox and HP Micro Focus COBOL Run-Time pack. Release notes (installation info, etc.) are ordered with option AVN. Documentation available separately (B5449AA).			
Instant Ignition		OD1	
Release notes		AVN	
• <b>HP Micro Focus COBOL/UX Run-time Pack License</b>	B2435DB		
Concurrent license-to-use for 5 client HP Micro Focus COBOL Run-Time and 1 server HP Micro Focus Run Time license. Release notes (installation notes, etc.) are ordered with option AVN. Not Purchase Agreement discountable.			
Instant Ignition		OD1	
Release notes		AVN	
• <b>HP Micro Focus COBOL Manuals</b>	B5449AA		
Must specify OS version required			
HP-UX 10.20		APZ	
HP-UX 10.10		APX	

	Description	Product #	Opt #	Price
•	<b>Nihongo HP Micro Focus COBOL/UX Developer's Package License</b>	B3859BB		
	Concurrent license-to-use including COBOL Compiler, run-time system, "convert3," "convert 5," Forms 2 and the animator debugger. Must order documentation separately (B6242AA). Release notes (installation info, etc.) ordered via option AVN Release notes		AVN	
•	<b>Nihongo HP Micro Focus COBOL/UX Compiler License</b>	B3861BB		
	Concurrent license-to-use for COBOL Compiler and run-time system. Includes Micro Focus, "convert 3," and "convert 5" utilities. Must order documentation separately (B6242AA). Release notes (installation info, etc.) ordered via option AVN. Release notes		AVN	
•	<b>Nihongo HP Micro Focus COBOL/UX Run-time/OSX System License</b>	B3863BB		
	License-to-use for COBOL run-time system. This product utilized "quantity breaks". Not Purchase Agreement discountable. Release notes (installation info, etc.) ordered option AUN Quantity 1 Quantity 2-3 Quantity 4-9 Quantity 10-99,999 Release notes		AVN	
•	<b>Nihongo HP Micro Focus COBOL Documentation</b>	B6242AA		
	Must specify OS version required			
	HP-UX 11.0		UM4	
	HP-UX 10.20		APZ	
	HP-UX 10.10		APX	
	HP-UX 10.01		APS	

## FORTRAN

	Description	Product #	Opt #	Price
•	<b>HP Fortran 90 Bundle License for Servers</b>	B3909DB		
	User license for Fortran 90 compiler, DDE, FSPLIT, FID, and BLAS. Support for 10.10 or later. Must order manuals separately (B6240AA). Release notes (installation info, etc.) ordered via option AUN. HP Fortran 77 upgrade credit Instant Ignition Release notes		O80 OD1 AVN	
	<b>HP Fortran 90 Documentation</b>	B6240AA		
	Must specify OS release required HP-UX 11.0 HP-UX 10.20 HP-UX 10.10		UM4 APZ APX	
•	<b>HP Fortran 77 Bundle License for Servers</b>	B3909CA		
	System license for Fortran 77 compiler and DDE. Must specify which System license. Support for 10.01 or later. Must order manuals separately (B6239AA) Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370 Tier 2 – H-Class, I-Class, K400, K410, K420, K570 Tier 3 – T500, T520, T600, 890, V-Class Upgrade credit on Processor Tier 1 (AH0) Upgrade credit on Processor Tier 2 (AE5) Instant Ignition		AH0 AE5 AEP OGR OC8 OD1	
	<b>HP Fortran 77 Manuals</b>	B6239AA		
	Must specify OS release HP-UX 11.0 HP-UX 10.20		UM4 APZ	



Description	Product #	Opt #	Price
HP-UX 10.10		APX	
HP-UX 10.01		APS	

## Pascal

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li> <b>HP Pascal Bundle License for Servers</b>                      System license-to-use Pascal compiler, DDE. Must specify which system license. Support for 10.01 or later. Must order manuals separately (B6241AA).                      Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370                      Tier 2 – H-Class, I-Class, K400, K410, K420, K570                      Tier 3 – T500, T520, T600, 890, V-Class                      Upgrade credit on Processor Tier 1 (AHO)                      Upgrade credit on Processor Tier 2 (AE5)                      Instant Ignition                 </li> </ul>	B3905AA		
		AHO	
		AE5	
		AEP	
		OGR	
		OC8	
		OD1	
<ul style="list-style-type: none"> <li> <b>HP Pascal Documentation</b>                      Must specify OS version                      HP-UX 11.0                      HP-UX 10.20                      HP-UX 10.10                      HP-UX 10.01                 </li> </ul>	B6241AA		
		UM4	
		APZ	
		APX	
		APS	

## Language Manuals

Description	Product #	Opt #	Price
<b>C Developer's Bundle Documentation Set</b> Manuals included when B6237AA is ordered in combination with 11.0 version option (UM4) C/HP-UX Reference Manual (92453-90086) C/HP-UX Programmer's Guide (92434-90012) HP DDE Debugger User's Guide (B3476-90015) Floating Point Guide (B3906-90006) Manuals included when B6237AA is ordered in combination with 10.20 version option (APZ) C/HP-UX Reference Manual (92453-90080) C/HP-UX Programmer's Guide (92434-90009) HP DDE Debugger User's Guide (B3476-90015) HP PAK Performance Analysis Tool User Guide (B3476-90016) Floating Point Guide (B3906-90004) Manuals included when B6237AA is ordered in combination with 10.01 or 10.10 version option (APS, or APX). C/HP-UX Reference Manual (92453-90074) C/HP-UX Programmer's Guide (92434-90008) C/HP-UX 10.01 Technical Addendum (5963-4468) Programming on HP-UX (B2355-90652) HP DDE Debugger User's Guide (B3476-90011) Analyzing Performance with HP PAK (B3476-90006)			
<b>HP Micro Focus COBOL/UX Developer Suite Set</b> Manuals included when B5449AA is ordered in combination with OS version option 10.20 (APZ) Micro Focus COBOL Getting Started Micro Focus COBOL Language Reference Manual, volumes 1 and 2 Micro Focus COBOL for UNIX, Systems Reference Manual, Volumes 1 and 2 Micro Focus COBOL Compatibility Guide Micro Focus COBOL Error Messages			



Description	Product #	Opt #	Price
HP Micro Focus COBOL/UX Programmer's Guide			
Micro Focus COBOL for UNIX User's Guide			
Micro Focus COBOL Toolbox for UNIX, Toolbox Operating Guide, Volumes 1 and 2			
Manuals included when B5449AA is ordered in combination with OS version option 10.10 (APX)			
Micro Focus COBOL Getting Started			
Micro Focus COBOL Language Reference Manual, volumes 1 and 2			
Micro Focus COBOL for UNIX, Systems Reference Manual, Volumes 1 and 2			
Micro Focus COBOL Compatibility Guide			
Micro Focus COBOL Error Messages			
HP Micro Focus COBOL/UX Programmer's Guide			
Micro Focus COBOL for UNIX User's Guide			
Micro Focus COBOL Toolbox for UNIX, Toolbox Operating Guide, Volumes 1 and 2			
Micro Focus Dialog System, Getting Started with Dialog System			
Micro Focus Dialog System, Character Mode User Guide			
Micro Focus Dialog System, Dialog System Reference			
Micro Focus Dialog System, Dialog System User Guide			
<b>HP Micro Focus Object COBOL Documentation Set</b>			
Manuals are included when ordering B5449EA with version options (APZ, UM4)			
Object COBOL Character Tools			
Programmer's Guide to Communications			
OO Programming with Object COBOL			
Programmer's Guide to Writing Programs			
Programmer's Guide to File Handling			
Master Index and Glossary			
Object COBOL User Guide			
Programmer's Guide to Creating User Interfaces			
Getting Started			
COBOL Programmer's Guide and Reference			
Language Reference			
Language Reference: Additional Topics			
Compatibility Guide			
Error Messages			
Pocket Guide			
Dialog System: Character Mode User Guide			
COBOL Programmer's Guide (B2433-90064)			
<b>HP Micro Focus Nihongo COBOL/UX Documentation Set</b>			
Manuals are included when ordering B6242AA; with version option APS, APX, APZ or UM4			
HP Micro Focus Nihongo COBOL/UX Programmer's Guide			
HP Micro Focus Nihongo COBOL/UX System Reference, Volume 1			
HP Micro Focus Nihongo COBOL/UX System Reference, Volume 2			
HP Micro Focus Nihongo COBOL/UX Forms 2			
HP Micro Focus Nihongo COBOL/UX User's Guide			
HP Micro Focus Nihongo COBOL/UX Getting Started with COBOL			
HP Micro Focus Nihongo COBOL/UX Language Reference, Volume 1			
HP Micro Focus Nihongo COBOL/UX Language Reference, Volume 2			
HP Micro Focus Nihongo COBOL/UX Operating Systems Extensions Operating Guide			
HP Micro Focus Nihongo COBOL/UX Error Messages			
<b>HP Fortran 90 Bundle Documentation Set</b>			
Manuals included when B6240AA is ordered in combination with 11.0 (option UM4)			
HP Fortran 90 Programmer's Reference Manual (B3908-90001)			
HP-UX Floating Point Guide (B3906-90006)			
HP DDE Debugger User's Guide (B3476-90015)			
Manuals included when B6240AA is ordered in combination with version options (APX or APZ):			
HP Fortran 90 Programmer's Reference Manual (B3908-90001)			
HP-UX Floating Point Guide (B3906-90004)			
HP DDE Debugger User's Guide (B3476-90015)			



Description	Product #	Opt #	Price
HP PAK Performance Analysis Tool User Guide (B3476-90016)			
<b>HP-UX FORTRAN/9000 Documentation Set</b>			
Manuals included when B6239AA is ordered in combination with HP-UX 11.0 (option UM4)			
HP FORTRAN Programming Guide (B3906-90001)			
HP FORTRAN Reference Manual (B3906-90002)			
Floating Point Guide (B3906-90006)			
HP DDE Debugger User's Guide (B3476-90015)			
Manuals included when B6239AA is ordered in combination with version HP-UX 10.20 options (APZ):			
HP FORTRAN Programming Guide (B3906-90001)			
HP FORTRAN Reference Manual (B3906-90002)			
Floating Point Guide (B3906-90004)			
HP DDE Debugger User's Guide (B3476-90015)			
HP PAK Performance Analysis Tool User Guide (B3476-90016)			
Manuals included when B6239AA is ordered in combination with HP-UX 10.10 or 10.01 version option (APS, APX).			
Programming on HP-UX (B2355-90652)			
HP FORTRAN Programming Guide (B3906-90001)			
HP FORTRAN Reference Manual (B3906-90002)			
Floating Point Guide (B3906-90003)			
HP DDE Debugger User's Guide (B3476-90011)			
Analyzing Performance with HP PAK (B3476-90006)			
<b>Pascal Compiler Documentation Set</b>			
Manuals included when B6241AA is ordered in combination with version options (APS, APX, APZ or UM4):			
HP Pascal Reference Manual (92431-90005)			
HP Pascal Programmer's Guide (92431-90006)			
HP DDE Debugger User's Guide (B3476-90015)			
HP PAK Performance Analysis Tool User Guide (B3476-90016)			

## Information Management Software

### HP ALLBASE/SQL Products

Description	Product #	Opt #	Price
• <b>ALLBASE/SQL Run-Time license for servers</b>	B5418BA		
Manuals ordered separately (B6243AA)			
Single user license		UA0	
4-user license		UA2	
8-user license		UA3	
16-user license		UA5	
32-user license		UA7	
48-user license		UA8	
64-user license		UA9	
96-user license		UAA	
128-user license		UAB	
256-user license		UAD	
512-user license		UCQ	
Unlimited user license		UAT	
Instant Ignition		OD1	
• <b>ALLBASE/SQL Run-Time Server Manuals</b>	B6243AA		
• <b>ALLBASE/SQL Develop License for servers</b>	B5420BA		
Manuals ordered separately (B6244AA)			

Description	Product #	Opt #	Price
Single user license		UA0	
4-user license		UA2	
8-user license		US3	
16-user license		UA5	
32-user license		UA7	
48-user license		UA8	
64-user license		UA9	
96-user license		UAA	
128-user license		UAB	
256-user license		UAD	
512-user license		UCQ	
Unlimited user license		UAT	
Instant Ignition		OD1	
• <b>ALLBASE/SQL Development Server Manuals</b>	B6244AA	OB1	
• <b>HP ALLBASE/SQL Replicate license for Servers</b>	B5424BA		
Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370		AH0	
Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
Tier 3 – T500, T520, T600, 890, V-Class		AEP	
Instant Ignition		OD1	

### HP Data Management Server Software

Description	Product #	Opt #	Price
• <b>HP Data Management System Server Software</b>	B1300B		
For the HP ALLBASE/SQL and SQL300 RDBMSs running on either Series 800 or Series 300 computers. Must be ordered with at least one HP Data Management Client license, prod. number B1320A. Documentation included.			
• <b>HP Data Management System Server Software</b>	B1301B		
For the Oracle RDBMS from Oracle Corporation running on either Series 800 or Series 300 computers. Must be ordered with at least one HP Data Management Client license, prod. number B1320A. Documentation included.			

### HP-RT Products

Description	Product #	Opt #	Price
• <b>HP-RT Developer's Kit License</b>	B3799AB		
This product provides a license to use the HP-RT Developer's Kit to develop high performance real-time applications and drivers for HP-RT. One license is required for each HP 9000 Series 800 development host server.			
Quantity 1-2 users			
Quantity 3-7 users			
Quantity 8+ users			
• <b>HP-RT Developer's Kit Media and Manuals</b>	B3800AA		
This product provides the software and manuals to install and use the HP-RT Developer's Kit.			
The Developer's Kit is hosted on an HP 9000 Series 800 system running HP-UX release 9.0. Simultaneous purchase of an HP-RT Developer's Kit LTU (B3799AB) is required.			
<i>One of the following options must be specified:</i>			
DDS DAT cartridge		AAH	
CD-ROM certificate		AAU	



## OTSrt Products

	Description	Product #	Opt #	Price
•	<b>OTSrt Run-time License</b>	B3805AA		
	This product provides one license to use the OSI Transport Service for HP-RT (OTSrt) product. One run-time license is required for each HP-RT system with OTSrt installed.			
•	<b>OTSrt Developer's Kit Media and Manuals</b>	B3806AA		
	Provides the software and manuals necessary to install and use OTSrt. OTSrt requires HP-RT Release 1.1 or greater. <i>Must order one of the following media options:</i>			
	DDS DAT cartridge		AAH	
	CD-ROM certificate		AAU	

## STREAMS

	Description	Product #	Opt #	Price
•	<b>STREAMSrt License</b>	B3808AA		
	One STREAMSrt Run-time license is required for each HP-RT system. Quantity 1-8 users Quantity 9+ users			
•	<b>STREAMSrt Media and Manuals</b>	B3809AA		
	This product provides the files and tools necessary to develop drivers using the STREAMS interface into the HP-RT kernel (Release 2.0). Simultaneous purchase of a STREAMSrt license (B3808AA) is required. <i>Must order one of the following media options:</i>			
	DDS DAT cartridge		AAH	
	CD-ROM certificate		AAU	

## HP-UX Developer's Toolkit

	Description	Product #	Opt #	Price
•	<b>HP-UX Developer's Toolkit License for HP 9000 Series 800</b>	B3394BA		
	License X11/Motif, audio/video APIs. Must specify which system license. Support for 10.01 or later. Manuals ordered separately (B3921xA)			
	Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370		AH0	
	Tier 2 – H-Class, I-Class, K400, K410, K420, K570		AE5	
	Tier 3 – T500, T520, T600, 890, V-Class		AEP	
	Upgrade credit on Processor Tier 1 (AH0)		OGR	
	Upgrade credit on Processor Tier 2 (AE5)		OC8	
	Single Processor License – for Superdome orders only		2AH	
	Instant Ignition (available on HP-UX 10.10 or HP-UX 10.20 only)		OD1	

## GFoX

	Description	Product #	Opt #	Price
•	<b>GFoX License</b>	B2695A		
	HP Graphics and Form Terminal Emulator for X11. 5-9 User Discount 10-24 User Discount 25+ User Discount		UBE UBF UBG	
•	<b>GFoX for Series 800 Media</b>	B2698A		
	1/4-inch cartridge tape		AA0	
	1/2-inch magnetic tape (1600 cpi)		AA1	

Description	Product #	Opt #	Price
DDS DAT cartridge		AAH	
CD-ROM certificate		AAU	

## Eloquence

Description	Product #	Opt #	Price																																							
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## V.4 Curses Library

Description	Product #	Opt #	Price																					
<ul style="list-style-type: none"> <li> <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">HP V.4 Curses Library License for one HP 9000 System (HP-UX 9.04 only)</th> </tr> </thead> <tbody> <tr> <td>Includes the license-to-use HP V.4 Curses Library on one HP 9000 Series 800 system. HP V.4 Curses Library provides color curses management with APIs compliant with System V Release 4. Order one license per system using the HP V.4 Curses APIs.</td> <td>B3831AA</td> </tr> <tr> <td>Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370</td> <td>AH0</td> </tr> <tr> <td>Tier 2 – H-Class, I-Class, K400, K410, K420, K570</td> <td>AE5</td> </tr> <tr> <td>Tier 3 – T500, T520, T600, 890, V-Class</td> <td>AEP</td> </tr> </tbody> </table> </li> <li> <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">HP V.4 Curses Library Media (HP-UX 9.04 only)</th> </tr> </thead> <tbody> <tr> <td>Includes the HP V.4 Curses Library APIs, on-line documentation, and hard copy release notes.</td> <td>B3815AA</td> </tr> <tr> <td>1/2-inch magnetic tape (1600 cpi)</td> <td>AA1</td> </tr> <tr> <td>QIC cartridge tape</td> <td>AA4</td> </tr> <tr> <td>DDS DAT cartridge</td> <td>AAH</td> </tr> <tr> <td>CD-ROM certificate</td> <td>AAU</td> </tr> </tbody> </table> </li> </ul>	HP V.4 Curses Library License for one HP 9000 System (HP-UX 9.04 only)		Includes the license-to-use HP V.4 Curses Library on one HP 9000 Series 800 system. HP V.4 Curses Library provides color curses management with APIs compliant with System V Release 4. Order one license per system using the HP V.4 Curses APIs.	B3831AA	Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370	AH0	Tier 2 – H-Class, I-Class, K400, K410, K420, K570	AE5	Tier 3 – T500, T520, T600, 890, V-Class	AEP	HP V.4 Curses Library Media (HP-UX 9.04 only)		Includes the HP V.4 Curses Library APIs, on-line documentation, and hard copy release notes.	B3815AA	1/2-inch magnetic tape (1600 cpi)	AA1	QIC cartridge tape	AA4	DDS DAT cartridge	AAH	CD-ROM certificate	AAU		
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## SoftBench 6.X

	Description	Product #	Opt #	Price
•	<b>C SoftBench 6.X License To Use - English</b>	B6445EB		
	Includes C/ANSI C Developer's Bundle and SoftBench CM. Credit for C/ANSI C Developer's Bundle or C		099	
•	<b>C SoftBench 6.X License To Use - Japanese</b>	B6446EB		
	Includes C/ANSI C Developer's Bundle and SoftBench CM. Credit for C/ANSI C Developer's Bundle or C		099	
•	<b>C++ SoftBench 6.X License To Use - English</b>	B6447EB		
	Includes: C/ANSI C and aC++ languages, Developer's Bundle, SoftBench CodeAdvisor, SoftBench CM, and the SoftBench SDK. Credit for C++ from a previous purchase Credit for C/ANSI C Developer's Bundle		098 099	
•	<b>C++ SoftBench 6.X License To Use - Japanese</b>	B6448EB		
	Includes: C/ANSI C and aC++ languages, Developer's Bundle, SoftBench CodeAdvisor, SoftBench CM, and the SoftBench SDK. Credit for C++ from a previous purchase Credit for C/ANSI C Developer's Bundle		098 099	
•	<b>SoftBench Manuals for HP-UX 10.20 English</b>	B6454FA		
	C SoftBench Manuals		001	
	C++ SoftBench Manuals		002	
•	<b>SoftBench Manual Product 10.20 Japanese</b>	B6454FJ		
	C SoftBench Manuals		001	
	C++ SoftBench Manuals		002	
•	<b>SoftBench Manuals for HP-UX 11.0 English</b>	B6454GA		
	C SoftBench Manuals		001	
	C++ SoftBench Manuals		002	
•	<b>SoftBench Manual Product 11.0 Japanese</b>	B6454GJ		
	C SoftBench Manuals		001	
	C++ SoftBench Manuals		002	

## Migration

	Description	Product #	Opt #	Price
•	<b>Migration Evaluation Kit</b>	92561A		
	Includes Migration Analysis Utility for RTE, HP 1000 transport utilities and manual set. Order product number only without any option			

## Distributed Computing

Please note: DCE will continue as a supported product on HP-UX 11.x, however, there will be no added functionality available from HP. The “client” portion of DCE will continue to roll forward with new operating system releases. DFS will be discontinued and removed from the price list effective 10/1/99.

### DCE Core Services

	Description	Product #	Opt #	Price
	Products have been simplified from previous structure. No longer necessary to order separate media for Core services. Data Encryption software is under export restriction. It is not automatically included and should be ordered separately (B3864AA) for US/Canada customers. GDS, DFS and NFS-DFS Gateway no longer available DCE Client is bundled in HP-UX 10.10 and later.			
•	<b>DCE/9000 DES Software—U.S./Canada</b>	B3864AA		
	<b>Version options:</b> HP-UX 10.01 HP-UX 10.10 HP-UX 10.20 HP-UX 10.30 HP-UX 11.0		APS APX APZ UM3 UM4	
	<b>Media options:</b> CD-ROM & codeword certificate		AJG	
•	<b>DCE/9000 Cell Directory Service (CDS) License</b>	B3187B		
	Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370 Tier 2 – H-Class, I-Class, K400, K410, K420, K570 Tier 3 – T500, T520, T600, 890, V-Class Upgrade credit for processor Tier 1 (AH0) Upgrade credit for processor Tier 2 (AE5)		AH0 AE5 AEP OGR OC8	
•	<b>DCE/9000 Security Service (SS) License</b>	B3188B		
	Tier 1 – D-Class, E-Class F-Class, G-Class, K100, K200, K210, K220, K370 Tier 2 – H-Class, I-Class, K400, K410, K420, K570 Tier 3 – T500, T520, T600, 890, V-Class Upgrade credit for processor Tier 1 (AH0) Upgrade credit for processor Tier 2 (AE5)		AH0 AE5 AEP OGR OC8	
•	DCE Release 11.00 documentation	B2927C		

## Linux Tools

### Linux Porting Kit v.1.0 for HP-UX 11.0 and 11i

	Description	Product #	Opt #	Price
•	<b>Linux Porting Kit v.1.0 for HP-UX 11.0/11i</b>	B9891AA		\$0.00
	To download the software by individual components, please go to <a href="http://www.devresource.hp.com/LPK">http://www.devresource.hp.com/LPK</a> . To obtain the CD, the customer can order it from their HP representative or go to HP’s Software Depot to place a web order at url: <a href="http://www.software.hp.com">http://www.software.hp.com</a> by searching keywords “linux porting”.			



## HP OpenView Products

### HP OpenView Communications Agent Tester Toolkit (AT)

Description	Product #	Opt #	Price
• <b>HP OpenView Communications Agent Tester 1.0 Toolkit LTU</b>	J1104AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
• <b>HP OpenView Communications Agent Tester 1.0 Toolkit - CD-ROM Media - HP-UX</b>	J1105AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>HP OpenView Communications Agent Tester 1.0 Toolkit - CD-ROM Media - Solaris</b>	J1106AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>HP OpenView Communications Agent Tester 1.0 Toolkit - Manuals for HP and Sun</b>	J1107AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	

### HP OpenView Communications Distributed Management (DM) TMN

#### HP OpenView Communications DM TMN 5.03 Products

Description	Product #	Opt #	Price
<b>License-to-Use</b>			
• <b>HP OpenView Communications DM TMN Manager Platform 5.03 LTU</b>	J1055DA		
<i>(HP-UX and Sun)</i>			
System License for HP 9000 Tier 1 SPUs		AH0	
System License for HP 9000 Tier 2 SPUs		AE5	
System License for HP 9000 Tier 3 SPUs		AEP	
Upgrade credit for Tier 1 SPUs		OGR	
Upgrade credit for Tier 2 SPUs		OC8	
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
• <b>HP OpenView Communications DM TMN Developer's Kit 5.03 LTU</b>	J1058DB		
<i>(HP-UX and Sun)</i>			
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN Agent Platform 5.03 LTU</b>  <i>(HP-UX and Sun)</i>  System License for HP 9000 Tier 1 SPUs  System License for HP 9000 Tier 2 SPUs  System License for HP 9000 Tier 3 SPUs  Upgrade credit for Tier 1 SPUs  Upgrade credit for Tier 2 SPUs  License/Next Day System Support - 1 year  License/Same Day System Support - 1 year  License/24x7 System Support - 1 year </li> </ul>	J1061DA	AH0 AE5 AEP OGR OC8 OS0 OS1 OS5	
<b>Media</b>			
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN Developer's Kit 5.03 HP-UX Media</b>  License/Next Day System Support - 1 year  License/Same Day System Support - 1 year  License/24x7 System Support - 1 year </li> </ul>	J1064DA	OS0 OS1 OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN Platform 5.03 HP-UX Media</b>  License/Next Day System Support - 1 year  License/Same Day System Support - 1 year  License/24x7 System Support - 1 year </li> </ul>	J1065DA	OS0 OS1 OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN Developer's Kit 5.03 Sun Media</b>  License/Next Day System Support - 1 year  License/Same Day System Support - 1 year  License/24x7 System Support - 1 year </li> </ul>	J1068DA	OS0 OS1 OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN Platform 5.03 Sun Media</b>  License/Next Day System Support - 1 year  License/Same Day System Support - 1 year  License/24x7 System Support - 1 year </li> </ul>	J1069DA	OS0 OS1 OS5	
<b>Documentation</b>			
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN Manager Platform 5.03 Documentation</b>  License/Next Day System Support - 1 year  License/Same Day System Support - 1 year  License/24x7 System Support - 1 year </li> </ul>	J1071DA	OS0 OS1 OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN Developer's Kit 5.03 Documentation</b>  License/Next Day System Support - 1 year  License/Same Day System Support - 1 year  License/24x7 System Support - 1 year </li> </ul>	J1072DA	OS0 OS1 OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN Agent Platform 5.03 Documentation</b>  License/Next Day System Support - 1 year  License/Same Day System Support - 1 year  License/24x7 System Support - 1 year </li> </ul>	J1073DA	OS0 OS1 OS5	

### HP OpenView Communications DM TMN on NT 5.03 Products

Description	Product #	Opt #	Price
<b>License-to-Use</b>			
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN on NT Manager Platform 5.03 LTU</b>  <i>NT</i>  System License for HP 9000 Tier 1 SPUs (see NOTE)  System License for HP 9000 Tier 2 SPUs (see NOTE)  Upgrade credit for Tier 1 SPUs  License/Next Day System Support - 1 year  License/Same Day System Support - 1 year  License/24x7 System Support - 1 year </li> </ul>	J4500AA	AH0 AE5 OGR OS0 OS1 OS5	



Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN on NT Developer's Kit 5.03 LTU</b> </li> </ul>	J4501AA		
<i>NT</i>			
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN on NT Agent Platform 5.03 LTU</b> </li> </ul>	J4506AA		
<i>NT</i>			
System License for HP 9000 Tier 1 SPUs (see NOTE)		AH0	
System License for HP 9000 Tier 2 SPUs (see NOTE)		AE5	
Upgrade credit for Tier 1 SPUs		OGR	
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
<b>Media</b>			
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN on NT Developer's Kit 5.03 NT Media</b> </li> </ul>	J4503AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN on NT Manager Platform 5.03 Media</b> </li> </ul>	J4502AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN on NT Agent Platform 5.03 Media</b> </li> </ul>	J4507AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
<b>Documentation</b>			
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN on NT Manager Platform 5.03 Documentation</b> </li> </ul>	J4504AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN on NT Developer's Kit 5.03 Documentation</b> </li> </ul>	J4505AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
<ul style="list-style-type: none"> <li> <b>HP OpenView Communications DM TMN on NT Agent Platform 5.03 Documentation</b> </li> </ul>	J4508AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	

NOTE - Tier 1 and Tier 2 in this case correspond to HW models running NT (not HP 9000 as the title says)



## HP OpenView Communications GDMO Modeling Toolset (GMT)

	Description	Product #	Opt #	Price
•	<b>HP OpenView Communications GDMO Modeling Toolkit 1.2 – License to Use</b>	J1079BA	001	
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	License/24x7 System Support - 1 year		OS5	
•	<b>HP OpenView Communications GDMO Modeling Toolkit 1.2 – CD Media for HP-UX</b>	J1080BA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	License/24x7 System Support - 1 year		OS5	
•	<b>HP OpenView Communications GDMO Modeling Toolkit 1.2 – CD Media for Solaris</b>	J1082BA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	License/24x7 System Support - 1 year		OS5	
•	<b>HP OpenView Communications GDMO Modeling Toolkit 1.2 – Documentation for HP-UX and Solaris</b>	J1083BA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	License/24x7 System Support - 1 year		OS5	

## HP OpenView Communications Open Platform Interface (OPI)

	Description	Product #	Opt #	Price
	<b>License-to-Use</b>			
•	<b>OpenView Communications OPI 4.x Developer's Kit – License-to-Use</b>	J1100CA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	Telephone/Next Day System Support - 1 year		OS2	
	<b>OpenView Communications OPI 4.x Stack LTU</b>	J1102CA		
License/Next Day System Support - 1 year	OS0			
License/Same Day System Support - 1 year	OS1			
	Telephone/Next Day System Support - 1 year	OS2		
	<b>Media</b>			
•	<b>OpenView Communications OPI 4.21 Developer's Kit – Media (HP-UX)</b>	J1101CA		
	HP-UX version 10.01		APS	
	HP-UX version 10.10		APX	
	HP-UX version 10.20		APZ	
•	<b>OpenView Communications OPI 4.21 Developer's Kit – Media (Solaris)</b>	J1119CA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	Telephone/Next Day System Support - 1 year		OS2	
	Telephone/Next Day System Support - 1 year		OS3	
	License/24x7 System Support - 1 year		OS5	
	Telephone/24x7 System Support - 1 year		OS6	
	<b>Documentation</b>			
•	<b>OpenView Communications OPI 4.21 Documentation</b>	J1103CA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	Telephone/Next Day System Support - 1 year		OS2	
	Telephone/Next Day System Support - 1 year		OS3	
	License/24x7 System Support - 1 year		OS5	
	Telephone/24x7 System Support - 1 year		OS6	

## HP OpenView Communications TMN Agent

	Description	Product #	Opt #	Price
•	<b>TMN Agent Developer 1.0 License-to-Use on HP 9000 Series 700/800 or Sun</b>	J1288AA		
	License/Next Day System Support - 1 year		OS2	
	License/Same Day System Support - 1 year		OS3	
	License/24x7 System Support - 1 year		OS6	
•	<b>HP OpenView Communications TMN Agent Runtime 1.0 LTU</b>	J1289AA		
	<i>(HP-UX and Sun)</i>			
	System License for HP 9000 Tier 1 SPUs		AH0	
	System License for HP 9000 Tier 2 SPUs		AE5	
	System License for HP 9000 Tier 3 SPUs		AEP	
	Upgrade credit for Tier 1 SPUs		OGR	
	Upgrade credit for Tier 2 SPUs		OC8	
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	License/24x7 System Support - 1 year		OS5	
•	<b>HP OpenView Communications TMN Agent Runtime with ECS 1.0 LTU</b>	J1289AA		
	<i>(HP-UX and Sun)</i>			
	System License for HP 9000 Tier 1 SPUs		AH0	
	System License for HP 9000 Tier 2 SPUs		AE5	
	System License for HP 9000 Tier 3 SPUs		AEP	
	Upgrade credit for Tier 1 SPUs		OGR	
	Upgrade credit for Tier 2 SPUs		OC8	
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	License/24x7 System Support - 1 year		OS5	
•	<b>TMN Agent Developer 1.0 Media for HP-UX on HP 9000 Series 700/800</b>	J1300AA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	Telephone/Next Day System Support - 1 year		OS2	
	Telephone/Same Day System Support - 1 year		OS3	
	License/24x7 System Support - 1 year		OS5	
	Telephone/24x7 System Support - 1 year		OS6	
•	<b>TMN Agent Developer 1.0 Media for Solaris</b>	J1305AA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	Telephone/Next Day System Support - 1 year		OS2	
	Telephone/Same Day System Support - 1 year		OS3	
	License/24x7 System Support - 1 year		OS5	
	Telephone/24x7 System Support - 1 year		OS6	
•	<b>TMN Runtimes including ECS 1.0 Media for HP-UX on HP 9000 Series 700/800</b>	J1301AA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	Telephone/Next Day System Support - 1 year		OS2	
	Telephone/Same Day System Support - 1 year		OS3	
	License/24x7 System Support - 1 year		OS5	
	Telephone/24x7 System Support - 1 year		OS6	
•	<b>TMN Runtimes including ECS 1.0 Media for Solaris</b>	J1304AA		
	License/Next Day System Support - 1 year		OS0	
	License/Same Day System Support - 1 year		OS1	
	Telephone/Next Day System Support - 1 year		OS2	
	Telephone/Same Day System Support - 1 year		OS3	
	License/24x7 System Support - 1 year		OS5	
	Telephone/24x7 System Support - 1 year		OS6	

Description	Product #	Opt #	Price
<b>TMN Agent Developer 1.0 Documentation</b>	J1310AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
<b>TMN Agent Runtime including ECS 1.0 Documentation</b>	J1311AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	

## HP OpenView Communications TMN Designer

Description	Product #	Opt #	Price
<b>TMN Designer 1.0 License-to-Use on HP 9000 Series 700/800 or Sun</b>	J1287AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
<b>TMN Designer 1.0 Media for HP-UX on HP 9000 Series 700/800</b>	J1299AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
CD-ROM Media		AAF	
<b>TMN Designer 1.0 Media for Solaris</b>	J1304AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
<b>TMN Designer 1.0 Documentation</b>	J1309AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	

## HP OpenView Communications TMN Manager

Description	Product #	Opt #	Price
<b>TMN Manager Developer 1.0 License-to-Use on HP 9000 Series 700/800 or Sun</b>	J1291AA		
License/Next Day System Support - 1 year		OS2	
License/Same Day System Support - 1 year		OS3	

Description	Product #	Opt #	Price
License/24x7 System Support - 1 year		OS6	
• <b>HP OpenView Communications TMN Manager Runtime 1.0 LTU</b>	J1292AA		
<i>(HP-UX and Sun)</i>			
System License for HP 9000 Tier 1 SPUs		AH0	
System License for HP 9000 Tier 2 SPUs		AE5	
System License for HP 9000 Tier 3 SPUs		AEP	
Upgrade credit for Tier 1 SPUs		OGR	
Upgrade credit for Tier 2 SPUs		OC8	
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
• <b>HP OpenView Communications TMN Manager Runtime with ECS 1.0 LTU</b>	J1293AA		
<i>(HP-UX and Sun)</i>			
System License for HP 9000 Tier 1 SPUs		AH0	
System License for HP 9000 Tier 2 SPUs		AE5	
System License for HP 9000 Tier 3 SPUs		AEP	
Upgrade credit for Tier 1 SPUs		OGR	
Upgrade credit for Tier 2 SPUs		OC8	
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
• <b>TMN Manager Developer 1.0 Media for HP-UX on HP 9000 Series 700/800</b>	J1302AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>TMN Manager Developer 1.0 Media for Solaris</b>	J1307AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>TMN Runtimes including ECS 1.0 Media for HP-UX on HP 9000 Series 700/800</b>	J1301AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>TMN Runtimes including ECS 1.0 Media for Solaris</b>	J1304AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>TMN Manager Developer 1.0 Documentation</b>	J1312AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	



Description	Product #	Opt #	Price
• <b>TMN Manager Runtime including ECS 1.0 Documentation</b>	J1313AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	

## HP OpenView Communications TMN Proxy

Description	Product #	Opt #	Price
• <b>TMN Proxy Developer 1.0 License-to-Use on HP 9000 Series 700/800 or Sun</b>	J1294AA		
License/Next Day System Support - 1 year		OS2	
License/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS6	
• <b>HP OpenView Communications TMN Proxy Runtime 1.0 LTU</b>	J1295AA		
<i>(HP-UX and Sun)</i>			
System License for HP 9000 Tier 1 SPUs		AH0	
System License for HP 9000 Tier 2 SPUs		AE5	
System License for HP 9000 Tier 3 SPUs		AEP	
Upgrade credit for Tier 1 SPUs		OGR	
Upgrade credit for Tier 2 SPUs		OC8	
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
• <b>HP OpenView Communications TMN Proxy Runtime with ECS 1.0 LTU</b>	J1296AA		
<i>(HP-UX and Sun)</i>			
System License for HP 9000 Tier 1 SPUs		AH0	
System License for HP 9000 Tier 2 SPUs		AE5	
System License for HP 9000 Tier 3 SPUs		AEP	
Upgrade credit for Tier 1 SPUs		OGR	
Upgrade credit for Tier 2 SPUs		OC8	
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
License/24x7 System Support - 1 year		OS5	
• <b>TMN Proxy Developer 1.0 Media for HP-UX on HP 9000 Series 700/800</b>	J1303AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>TMN Proxy Developer 1.0 Media for Solaris</b>	J1308AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>TMN Runtimes including ECS 1.0 Media for HP-UX on HP 9000 Series 700/800</b>	J1301AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	

Description	Product #	Opt #	Price
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>TMN Runtimes including ECS 1.0 Media for Solaris</b>	J1304AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>TMN Proxy Developer 1.0 Documentation</b>	J1314AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	
• <b>TMN Proxy Runtime including ECS 1.0 Documentation</b>	J1316AA		
License/Next Day System Support - 1 year		OS0	
License/Same Day System Support - 1 year		OS1	
Telephone/Next Day System Support - 1 year		OS2	
Telephone/Same Day System Support - 1 year		OS3	
License/24x7 System Support - 1 year		OS5	
Telephone/24x7 System Support - 1 year		OS6	

## HP OpenView Event Correlation Services (ECS) V3

Description	Product #	Opt #	Price
• <b>ECS Designer V3 License-to-Use on HP 9000 Series 700/800, Sun or NT</b>	J1091CB		
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>ECS Engine V3 License-to-Use on HP 9000 Series 700/800, Sun or NT</b>	J1092CB		
• <b>Tier 1 - ECS Engine V3 License-to-Use</b>	J1092CB	AH0	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>Tier 2 - ECS Engine V3 License-to-Use</b>	J1092CB	AE5	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>Tier 3 - ECS Engine V3 License-to-Use</b>	J1092CB	AEP	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>Upgrade credit for Tier 1 (AH0) SPUs ECS Engine V3 License-to-Use</b>	J1092CB	OGR	
• <b>Upgrade credit for Tier 2 (AE5) SPUs ECS Engine V3 License-to-Use</b>	J1092CB	OC8	
• <b>ECS V3 CD-ROM Media for HP-UX on HP 9000 Series 700/800</b>	J1093CA		
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	

Description	Product #	Opt #	Price
• <b>ECS V3 CD-ROM Media for Solaris</b>	J1094CA		
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>ECS V3 CD-ROM Media for NT</b>	J1113CA		
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>ECS Developer's V3 Manuals for HP 9000 Series 700/800, Sun and NT</b>	J1095CA		
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>ECS Engine Run-Time V3 Manuals for HP 9000 Series 700/800, Sun and NT</b>	J1096CA		
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	

## HP OpenView Event Correlation Services (ECS) V3

Description	Product #	Opt #	Price
• <b>Communications DM Pack for ECS V3 License-to-Use on HP 9000 Series 700/800 , Sun or NT</b>	J1097CB		
• <b>Tier 1 - Communications DM Pack for ECS V3 License-to-Use</b>	J1097CB	AH0	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>Tier 2 -Communications DM Pack for ECS V3 License-to-Use</b>	J1097CB	AE5	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>Tier 3 -Communications DM Pack for ECS V3 License-to-Use</b>	J1097CB	AEP	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>Upgrade credit for Tier 1 (AH0) SPU's ECS Engine V3 License-to-Use</b>	J1097CB	OGR	
• <b>Upgrade credit for Tier 2 (AE5) SPU's ECS Engine V3 License-to-Use</b>	J1097CB	OC8	
• <b>ASCII Module for ECS V3 License-to-Use on HP 9000 Series 700/800, Sun or NT</b>	J1098CB		
• <b>Tier 1 -ASCII Module for ECS V3 License-to-Use</b>	J1098CB	AH0	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>Tier 2 - ASCII Module for ECS V3 License-to-Use</b>	J1098CB	AE5	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>Tier 3 - ASCII Module for ECS V3 License-to-Use</b>	J1098CB	AEP	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
• <b>Upgrade credit for Tier 1 (AH0) SPU's ECS Engine V3 License-to-Use</b>	J1098CB	OGR	
• <b>Upgrade credit for Tier 2 (AE5) SPU's ECS Engine V3 License-to-Use</b>	J1098CB	OC8	
• <b>SNMP Module for ECS V3 License-to-Use on HP 9000 Series 700/800, Sun or NT</b>	J1099CB		

Description	Product #	Opt #	Price
<b>Tier 1 - SNMP Module for ECS V3 License-to-Use</b>	J1099CB	AH0	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
<b>Tier 2 - SNMP Module for ECS V3 License-to-Use</b>	J1099CB	AE5	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
<b>Tier 3 - SNMP Module for ECS V3 License-to-Use</b>	J1099CB	AEP	
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
<b>Upgrade credit for Tier 1 (AH0) SPUs ECS Engine V3 License-to-Use</b>	J1099CB	OGR	
<b>Upgrade credit for Tier 2 (AE5) SPUs ECS Engine V3 License-to-Use</b>	J1099CB	OC8	
<b>ECS Designer V3 License-to-Use on HP 9000 Series 700/800, Sun or NT - Upgrade</b>	J1387CB		
<b>ECS Engine V3 License-to-Use on HP 9000 Series 700/800, Sun or NT - Upgrade</b>	J1388CB		
<b>Tier 1 - ECS Engine V3 License-to-Use</b>	J1388CB	AH0	
<b>Tier 2 - ECS Engine V3 License-to-Use</b>	J1388CB	AE5	
<b>Tier 3 - ECS Engine V3 License-to-Use</b>	J1388CB	AEP	
<b>Telecom DM Pack for ECS V3 License-to-Use on HP 9000 Series 700/800, Sun or NT - Upgrade</b>	J1389CB		
<b>Tier 1 - Telecom DM Pack for ECS V3 License-to-Use</b>	J1389CB	AH0	
<b>Tier 2 - Telecom DM Pack for ECS V3 License-to-Use</b>	J1389CB	AE5	
<b>Tier 3 - Telecom DM Pack for ECS V3 License-to-Use</b>	J1389CB	AEP	
<b>ASCII Module for ECS V3 License-to-Use on HP 9000 Series 700/800, Sun or NT-Upgrade</b>	J1390CB		
<b>Tier 1 - ASCII Module for ECS V3 License-to-Use</b>	J1390CB	AH0	
<b>Tier 2 - ASCII Module for ECS V3 License-to-Use</b>	J1390CB	AE5	
<b>Tier 3 - ASCII Module for ECS V3 License-to-Use</b>	J1390CB	AEP	
<b>SNMP Module for ECS V3 License-to-Use on HP 9000 Series 700/800, Sun or NT - Upgrade</b>	J1391CB		
<b>Tier 1 - SNMP Module for ECS V3 License-to-Use</b>	J1391CB	AH0	
<b>Tier 2 - SNMP Module for ECS V3 License-to-Use</b>	J1391CB	AE5	
<b>Tier 3 - SNMP Module for ECS V3 License-to-Use</b>	J1391CB	AEP	

## HP OpenView Customer Views for NNM

**NOTE:** All products are bundled with one-year standard support.

Description	Product #	Opt.#	Price
<b>Customer Views 1.0 100 Customers NT LTU</b>	J4518AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customer Views 1.0 Unrestricted for NT LTU</b>	J4519AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customer Views 200 Additional Managed Customers Bank NT LTU</b>	J4520AB		
First Year of System Support Option.		OS6	



**Chapter 9**  
**Network and Enterprise Management**



Description	Product #	Opt.#	Price
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customers Views 1.0 Upgrade 100 to Unrestricted NT LTU</b>	J4521AB		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customer Views 1.0 100 Customers HP-UX LTU</b>	J4522AA		
First Year of System Support Option.		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP		0V1	
Crit. Syst. Support for SAP w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customer Views 1.0 Unrestricted for HP-UX LTU</b>	J4523AA		
First Year of System Support Option.		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP		0V1	
Crit. Syst. Support for SAP w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customer Views 200 Additional Managed Customers Bank UX LTU</b>	J4524AB		
First Year of System Support Option.		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP		0V1	
Crit. Syst. Support for SAP w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customers Views 1.0 Upgrade 100 to Unrestricted HP-UX LTU</b>	J4525AB		
First Year of System Support Option.		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP		0V1	
Crit. Syst. Support for SAP w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customer Views 1.0 100 Customers Solaris LTU</b>	J4526AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customer Views 1.0 Unrestricted for Solaris LTU</b>	J4527AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Customer Views 200 Additional Managed Customers Bank Solaris LTU</b>	J4528AB		
First Year of System Support Option.		0S6	

Description	Product #	Opt.#	Price
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>Customers Views 1.0 Upgrade 100 to Unrestricted Solaris LTU</b>	J4529AB		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

## HP OpenView Database Pak 2000 HP-UX

**NOTE: All products are bundled with one-year standard support.**

Description	Product #	Opt. #	Price
• <b>OV Database Pak 2000 Tier 1 Server (1-49)</b>	B7321AA		
50-199 200 + Upgrade Credit GlancePlus Pak, Performance or GlancePlus Pak, Tier 1 LTU		GM1	
• <b>OV Database Pak 2000 Tier 2 Server (1-49)</b>	B7322AA		
50-199 200 + Upgrade Credit GlancePlus, Performance or GlancePlus Pak, Tier 2 LTU		GM2	
• <b>OV Database Pak 2000 Tier 3 Server (1-49)</b>	B7323AA		
50-199 200 + Upgrade Credit GlancePlus, Performance or GlancePlus Pak, Tier 3 LTU		GM3	
• <b>OV Database Pak 2000, Media/Manual</b>	B7324AA		
HP-UX Version 10.20		APZ	
Ordering option for HP-UX 11.0		UM4	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

\* Includes management of Oracle, Informix and Sybase databases

## HP OpenView Developer Assist

Descriptions	Product #	Opt. #	Price
• OpenView Developer Assist Plus: NNM/ITO	J1159AA		
• OpenView Developer Assist 5 Pack:NNM/ITO	J1161AA		
• Dev. Assist+: ECS Designer for NNM/ITO	J1383AA		
• Dev Assist 5pk: ECS Designer for NNM/ITO	J1384AA		

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

## HP OpenView GlancePlus

**NOTE: All products are bundled with one-year standard support.**

Description	Product #	Opt. #	Price
• <b>HP OV GlancePlus Tier One, LTU (1-49)</b>	B6121AA		
50-199 200-999999			

Description	Product #	Opt. #	Price
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
• <b>HP OV GlancePlus Tier Two, LTU (1-49)</b>	B6122AA		
50-199			
200-999999			
Upgrade credit for tier 1 SPUs		OGR	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
• <b>HP OV GlancePlus Tier Three, LTU (1-49)</b>	B6123AA		
50-199			
200-999999			
Upgrade credit for tier 2 SPUs		OC8	
Upgrade credit for tier 1 SPUs		OGR	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
<b>HP OV GlancePlus HP9000 Server, Media</b>	B3693AA		
Factory integrated		OD1	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM certificate only		AAU	
HP-UX version 10.01		APS	
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
Ordering option for HP-UX 11.0		UM4	
• <b>HP OV GlancePlus Server Media, Japanese</b>	B3693AJ		
Factory integrated		OD1	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	



Description	Product #	Opt. #	Price
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM certificate only		AAU	
HP-UX version 10.01		APS	
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
Ordering option for HP-UX 11.0		UM4	
<b>• HP OV GlancePlus Sun SPARC, Media</b>	B3695AA		
GlancePlus Solaris 2.5/2.6, 7 vers		002	
Telephone Assist System Support-1st Yr.		OS6	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM (disk only)		AAF	
<b>• HP OV GlancePlus IBM, Media</b>	B3697AA		
Version for IBM AIX 4.1.x/4.2/4.3		002	
Telephone Assist System Support-1st Yr.		OS6	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM (disk only)		AAF	
8mm DAT		AJE	
<b>• HP OV GlancePlus for HP9000 Wkstns, LTU (1-99)</b>	B6120AA		
100-499			
500-1999			
2000-4999			
5000-999999			
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
<b>• HP OV GlancePlus HP9000 Workstns, Media</b>	B3691AA		
Factory integrated		OD1	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM certificate only		AAU	
HP-UX version 10.01		APS	
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
Ordering option for HP-UX 11.0		UM4	
<b>• HP OV GlancePlus Wkst Media, Japanese</b>	B3691AJ		
Factory integrated		OD1	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	



Description	Product #	Opt. #	Price
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM certificate only		AAU	
HP-UX version 10.01		APS	
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
Ordering option for HP-UX 11.0		UM4	
<b>HP OV GlancePlus for Siemens, LTU (1-49)</b>	B6112AA		
50-199			
200-999999			
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>HP OV GlancePlus for Siemens, Media</b>	B6113AA		
GlancePlus Reliant 5.43		001	
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

## HP OpenView GlancePlusPak 2000

Description	Product #	Opt. #	Price
<b>OV GlancePlus Pak 2000, LTU Tier 1 Svr. (1-49)</b>	B6131AA		
50-199			
200-999999			
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
<b>OV GlancePlus Pak 2000,LTU Tier 2 Server (1-49)</b>	B6132AA		
50-199			
200-999999			
Upgrade credit for tier 1 SPUs		OGR	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
<b>OV GlancePlus Pak 2000,LTU Tier 3 Server (1-49)</b>	B6133AA		
50-199			
200-999999			
Upgrade credit for tier 2 SPUs		OC8	
Upgrade credit for tier 1 SPUs		OGR	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	



Description	Product #	Opt. #	Price
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
<b>• OV Glance+Pak 2000 for HP9000 Wkstns Media/Manual</b>	B3699AA		
Add manual set		OB1	
Factory integrated		OD1	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM certificate and manual set only		AAU	
HP-UX version 10.01		APS	
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
Ordering option for HP-UX 11.0		UM4	
<b>• HP OV Glance+Pak 2000 Wkst Media/Manual Japanese</b>	B3699AJ		
Add manual set		OB1	
Factory integrated		OD1	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
CD-ROM certificate and manual set only		AAU	
HP-UX version 10.01		APS	
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
Ordering option for HP-UX 11.0		UM4	
<b>• OV Glance+Pak 2000 for HP9000 Servers Media/Manual</b>	B3701AA		
Add manual set		OB1	
Factory integrated		OD1	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
CD-ROM certificate and manual set only		AAU	
HP-UX version 10.01		APS	
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
Ordering option for HP-UX 11.0		UM4	
<b>• HP OV Glance+ Pak 2000 Svr, Media/Manual Japan</b>	B3701AJ		
Add manual set		OB1	
Factory integrated		OD1	



Description	Product #	Opt. #	Price
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
CD-ROM certificate and manual set only		AAU	
HP-UX version 10.01		APS	
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
Factory Integration option		OD1	
Ordering option for HP-UX 11.0		UM4	
<b>• HP OV GlancePlus Pak 2000 Sun, Media/Manual</b>	<b>B3703AA</b>		
GlancePlus Pak Solaris 2.5/2.6 LTU		002	
Add manual set		OB1	
Telephone Assist System Support-1st Yr.		OS6	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM disk and manual set (disk only)		AAF	
<b>• HP OV GlancePlus Pak 2000 IBM, Media/Manual</b>	<b>B3705AA</b>		
Version for AIX 4.1/4.2/4.3		002	
Add manual set		OB1	
Telephone Assist System Support-1st Yr.		OS6	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM disk and manual set (disk only)		AAF	
<b>• 8mm DAT</b>		AJE	
<b>• OV GlancePlus Pak 2000 LTU,HP9000 Wkstns (1-99)</b>	<b>B6130AA</b>		
100-499			
500-1999			
2000-4999			
5000-999999			
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	
<b>• OV Glance+ Pak 2000 for HP9000 Wkstns Media/Manual</b>	<b>B3699AA</b>		
Add manual set		OB1	
Factory integrated		OD1	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr		3Y6	
CD-ROM certificate and manual set		AAU	
HP-UX version 10.01		APS	



Description	Product #	Opt. #	Price
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
Ordering option for HP-UX 11.0		UM4	
• <b>HP OV Glance+Pak 2000 Wkst Media/Manual Japanese</b>	B3699AJ		
Add manual set		OB1	
Factory integrated		OD1	
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
CD-ROM certificate and manual set		AAU	
HP-UX version 10.01		APS	
HP-UX version 10.10		APX	
HP-UX version 10.20		APZ	
• Ordering option for HP-UX 11.0		UM4	
• <b>HP OV GlancePlus Pak 2000 for Siemens, LTU (1-49)</b>	B6114AA		
50-199			
200-999999			
First Year of System Support Option.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3AA	
Three Years of System Support Option		3Y6	
• <b>GlancePlus Pak 2000 for Siemens, Media/Manual</b>	B6115AA		
GlancePlus Pak Rel 5.43		001	
First Year of System Support Option.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>OV GlancePlus Pak 2000 LTU,HP9000 Wkstns (1-99)</b>	B6130AA		
100-499			
500-1999			
2000-4999			
5000-999999			
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Telephone/Next Day System Support-3 Year		3Y2	
Telephone/4-hr System Support - 3 Year		3Y3	
SW Tel;HW Wty 24x7; Sys Supp - 3 Yr.		3Y6	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.



## HP OpenView Internet Services 3.5

NOTE: All products are bundled with one-year standard support.

	Description	Product #	Opt. #	Price
•	<b>OV Internet Services for Enterprise Server LTU</b>	J5100AA		
	First Year of System Support Option		0S6	
	Critical System Support		0T1	
	Crit. System Support w/Impl Assistance		0T2	
	Critical Systems Support for SAP		0V1	
	Crit. Syst. Support for SAP w/add Maint.		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Internet Services for Datacenter Server LTU</b>	J5101AA		
	First Year of System Support Option		0S6	
	Critical System Support		0T1	
	Crit. System Support w/Impl Assistance		0T2	
	Critical Systems Support for SAP		0V1	
	Crit. Syst. Support for SAP w/add Maint.		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Internet Services for Advanced Server LTU</b>	J5102AA		
	First Year of System Support Option		0S6	
	Critical System Support		0T1	
	Crit. System Support w/Impl Assistance		0T2	
	Critical Systems Support for SAP		0V1	
	Crit. Syst. Support for SAP w/add Maint.		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Internet Services Server LTU</b>	J5103AA		
	First Year of System Support Option		0S6	
	Critical System Support		0T1	
	Crit. System Support w/Impl Assistance		0T2	
	Critical Systems Support for SAP		0V1	
	Crit. Syst. Support for SAP w/add Maint.		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Internet Services Media/Manual</b>	J5104AA		
	First Year of System Support Option		0S6	
	Critical System Support		0T1	
	Crit. System Support w/Impl Assistance		0T2	
	Critical Systems Support for SAP		0V1	
	Crit. Syst. Support for SAP w/add Maint.		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	

## HP OpenView ITSM Products

NOTE: All products are bundled with one-year standard support.

### HP OpenView ITSM Change & Configuration Manager

	Description	Product #	Opt. #	Price
•	<b>OV ITSM Change &amp; Configuration Win 5 LTU</b>	B6994AA		
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y6	
•	<b>OV ITSM Change &amp; Config HP UNIX 5 LTU</b>	B6994CA		
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y6	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

### HP OpenView ITSM Help Desk Manager

	Description	Product #	Opt. #	Price
•	<b>OV ITSM Help Desk - Win - 5 Licenses</b>	B6993AA		
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y6	
•	<b>OV ITSM Help Desk - HP UNIX - 5 licenses</b>	B6993CA		
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y6	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

### HP OpenView ITSM Service Level Manager

	Description	Product # +	Opt. #	Price
•	<b>OV ITSM S/ Event Interface IT/O / LTU</b>	B6979AA		
•	<b>OV ITSM IRM,EDK &amp; Example Extract LTU</b>	B6980AA		
	First Year of System Support Option		0S6	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y6	
•	<b>OV ITSM/EIDK &amp; Example Interfaces LTU</b>	B6980BA		
	First Year of System Support Option		0S6	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y6	
•	<b>OV ITSM Open View Integration Pack LTU</b>	B6980CA		
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y6	
•	<b>OV ITSM Enterprise Upgrade</b>	B6981AA		
	First Year of System Support Option		0S6	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y6	
•	<b>OV ITSM / Report Mgr / NT / 95 / LTU</b>	B6983AA		
	First Year of System Support Option		0S6	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y6	
•	<b>OV ITSM/WEB Connect Unlimited LTU</b>	B6984AA		
	First Year of System Support Option		0S6	



Description	Product # +	Opt. #	Price
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<b>• OV ITSM Web Connect Special User LTU</b>	B6984BA		
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<b>• OV ITSM Concurrent User from 6 to 10 LTU</b>	B6985FA		
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<b>• OV ITSM Concurrent user for 11 to 50 LTU</b>	B6985GA		
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<b>• OV ITSM Concurrent users 51 to 100 LTU</b>	B6985HA		
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<b>• OV ITSM Concurrent users 101 to 200 LTU</b>	B6985JA		
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<b>• OV ITSM Concurrent users 200 plus LTU</b>	B6985KA		
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<b>• OV ITSM / Added Client/NT/95/ Media</b>	B6986AA		
<b>• OV ITSM / Added Client / OSF / Media</b>	B6986CA		
<b>• OV ITSM / Additional Doc / Manual</b>	B6987AA		
<b>• OV ITSM /Implementation/Services/ LTU</b>	B6989AA		
<b>• OV ITSM Training Manual 1-49</b>	B6992AA		
<b>• OV ITSM Training Manual (over 50)</b>	B6992BA		
<b>• OV ITSM Service Level - Win - 5 LTU</b>	B6995AA		
<b>• OV ITSM Service Level HP UNIX 5 LTU</b>	B6995CA		
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<b>• OV ITSM Service Call Replication LTU</b>	B6996AA		
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

## HP OpenView Service Desk

Description	Product #	Opt. #	Price
<b>• OV Service Desk 1 named user</b>	B4321AD		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Service Desk Helpdesk Management</b>	B4322AD		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Service Desk Change Management</b>	B4323AD		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	

Description	Product #	Opt. #	Price
Three Years of System Support Option		3Y6	
<b>OV Service Desk Service Level Management</b>	B4324AD		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Service Desk Media CD</b>	B4325AD		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Service Desk 1 Concurrent User</b>	B4326AD		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

## HP OpenView IT/Administration 4.0

**NOTE: All products are bundled with one-year standard support.**

Description	Product #	Opt #	Price
<b>HP OpenView IT/Administration v4.0 Management Server right-to-use</b>	B4250BB		
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
<b>HP OpenView IT/Administration v4.0 Tier 3 M. Mod. right-to-use</b>	B4252BB		
1-9 nodes			
10-49 nodes			
50-199 nodes			
200-499 nodes			
500+ nodes			
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>HP OpenView IT/Administration v4.0 Tier 2 M. Mod. right-to-use</b>	B4253BB		
1-9 nodes			
10-49 nodes			
50-199 nodes			
200-499 nodes			
500+ nodes			
Tier 2 right-to-use for UNIX servers		100	
Tier 2 right-to-use for PC servers		200	
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	



Description	Product #	Opt #	Price
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OpenView IT/Administration v4.0 Tier 1 M. Mod. right-to-use</b>	B4254BB		
1-9 nodes			
10-49 nodes			
50-199 nodes			
200-499 nodes			
500+ nodes			
Tier 1 right-to-use for UNIX servers		100	
Tier 1 right-to-use for PC servers		200	
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OpenView IT/Administration v4.0 Desktop M. Mod. right-to-use</b>	B4255BB		
1-99 nodes			
100-499 nodes			
500-1999 nodes			
2000-4999 nodes			
5000+ nodes			
Desktop right-to-use for UNIX desktops		100	
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OpenView IT/Administration v4.0 Media</b>	B4256CA		
HP-UX VERSION 10.20		APZ	
First Year of System Support Option		OS2	
First Year of System Support Option		OS3	
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OpenView IT/Administration v4.0 Media</b>	B4256DA		
HP-UX VERSION 11.0		APZ	
First Year of System Support Option		OS2	
First Year of System Support Option		OS3	
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	

Description	Product #	Opt #	Price
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OpenView IT/Administration v4.0 English manuals</b>	B4258BA		
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

## HP OpenView ManageX

**NOTE: All products are bundled with one-year standard support.**

Description	Product #	Opt. #	Price
<b>• HP OV ManageX Win NT Manual</b>	B7336AA		
<b>• HP OV ManageX Starter Pack English LTU 5</b>	B7360AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• Customer Care Extended support for B7360AA</b>	B7360PA		
<b>• MX Starter Pk Eng Current Vers Upgrd LTU</b>	B7360UA		
<b>• HP OV ManageX NT Console LTU</b>	B7361AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• Customer Care Extended support for B7361AA</b>	B7361PA		
<b>• MX Console Eng Current Version Upgrd LTU</b>	B7361UA		
<b>• HP OV ManageX NT Server LTU - 1</b>	B7362AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• Customer Care Extended support for B7362AA, qty. 1-9</b>	B7362PA		
<b>• MX NT Svr 1 Current Version Upgrd LTU</b>	B7362UA		
<b>• HP OV ManageX NT Server LTU - 10</b>	B7363AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• Customer Care Extended support for B7363AA, qty. 10-49</b>	B7363PA		
<b>• MX NT Svr 10 Current Version Upgrd LTU</b>	B7363UA		
<b>• HP OV ManageX NT Server LTU - 50</b>	B7364AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	

**Chapter 9**  
**Network and Enterprise Management**



Description	Product #	Opt. #	Price
Three Years of System Support Option		3Y6	
• Customer Care Extended support for B7364AA, qty. 50-99	B7364PA		
• MX NT Svr 50 Current Version Upgrd LTU	B7364UA		
• <b>HP OV ManageX NT Server LTU - 100</b>	B7365AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• Prem. support for B7365AA, qty. 100+	B7365PA		
• MX NT Svr 100 Current Version Upgrd LTU	B7365UA		
• <b>HP OV ManageX App Server LTU - 1</b>	B7366AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• Customer Care Extended support for B7366AA, qty. 1-9	B7366PA		
• MX App Svr 1 Current Version Upgrd LTU	B7366UA		
• <b>HP OV ManageX App Server LTU - 10</b>	B7367AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• Customer Care Extended support for B7367AA, qty. 10-49	B7367PA		
• MX App Svr 10 Current Version Upgrd LTU	B7367UA		
• <b>HP OV ManageX App Server LTU - 50</b>	B7368AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• Customer Care Extended support for B7368AA, qty. 50-99	B7368PA		
• MX App Svr 50 Current Version Upgrd LTU	B7368UA		
• <b>HP OV ManageX App Server LTU - 100</b>	B7369AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• Prem. support for B7369AA, qty. 100+	B7369PA		
• MX App Svr 100 Current Version Upgrd LTU	B7369UA		
• <b>HP OV ManageX Workstation LTU - 10</b>	B7370AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• Customer Care Extended support for B7370AA, qty. 10-49	B7370PA		
• MX Wkstn 10 Current Version Upgrd LTU	B7370UA		
• <b>HP OV ManageX Workstation LTU - 50</b>	B7371AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• Customer Care Extended support for B7371AA, qty. 50-99	B7371PA		
• MX Wkstn 50 Current Version Upgrd LTU	B7371UA		
• <b>HP OV ManageX Workstation LTU - 100</b>	B7372AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	

Description	Product #	Opt. #	Price
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• Prem. support for B7372AA, qty. 100-499	B7372PA		
• MX Wkstn 100 Current Version Upgrd LTU	B7372UA		
• <b>HP OV ManageX Workstation LTU - 500</b>	B7373AA		
First Year of System Support Option.		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• Prem. support for B7373AA, qty. 500+	B7373PA		
• MX Wkstn 500 Current Version Upgrd LTU	B7373UA		
• HP OV MX Upgrade to App Server LTU - 1	B7380AA		
• HP OV MX Upgrade to App Server LTU - 10	B7381AA		
• HP OV MX Upgrade to App Server LTU - 50	B7382AA		
• HP OV MX Upgrade to App Server LTU - 100	B7383AA		
• Upgrd to ManageX Baan/SPI LTU English	H1360CA		
• Upgrade to ManageX SAP/SPI LTU Eng	H1361CA		

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

## HP OpenView Network Node Manager

**NOTE: All products are bundled with one-year standard support.**

### HP OpenView Network Node Manager for Windows NT/2000

Description	Product #	Opt. #	Price
• <b>HP OV NNM 5.02 250 for Windows NT LTU</b>	J1120AA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>Upgrade to NNM/NT 250 Vers. 5.x LTU English</b>	J1120UA		
• <b>HP OV NNM 250 Node Increment Windows NT LTU</b>	J1121AB		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>Prem Support NNM/NT 250 Node Increment LTU Eng</b>	J1121PA		
• <b>Upgrade to NNM/NT 250 Node Increment Vers. 5.x LTU English</b>	J1121UB		
• <b>HP OV NNM 5.02 Unlimited Windows NT LTU</b>	J1122AA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>Customer Care Extended Support LTU NNM/NT 5.x unLtd,Eng</b>	J1122PA		
• <b>Upgrade to NNM/NT 5.x Unlimited LTU Eng</b>	J1122UA		
• <b>Upgrd OV NNM 250 to Unlimited Windows NT LTU</b>	J1124AB		
Upgrd Qty 250 to Unlimited 5.x NT LTU		001	
Upgrd Qty 500 to Unlimited 5.x NT LTU		002	
Upgrd Qty 750 to Unlimited 5.x NT LTU		003	
Upgrd Qty 1000 to Unlimited 5.x NT LTU		004	
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	





Description	Product #	Opt. #	Price
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OV NNM Enterprise 6.2 for Windows NT/2000 LTU</b>	J1240AA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>Customer Care Extended Support NNM/NT 6.x Enterprise LTU Eng</b>	J1240PA		
• <b>HP OV Upgrade to NNM Enterprise 6.2 for Windows NT/2000 LTU</b>	J1240UA		
• <b>HP OV NNM 250 6.2 for Windows NT/2000 LTU</b>	J1241AA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>Customer Care Extended Support NNM/NT 250 6.x LTU Eng</b>	J1241PA		
• <b>HP OV Upgrade to NNM 250 6.2 for Windows NT/2000 LTU</b>	J1241UA		
• <b>HP OV NNM 250 Node Increment 6.x for Windows NT/2000 LTU</b>	J1242AB		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OV Upgrade NNM 250 Node Increment 6.x for Windows NT/2000 LTU</b>	J1242UB		
• <b>Customer Care Extended Support NNM/NT 250 Increment LTU Eng</b>	J1242PA		
• <b>Upgrade NNM 250 to Enterprise 6.x for Windows NT/2000 LTU</b>	J1243AB		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

### HP OpenView Network Node Manager for HP-UX & Sun Solaris

Description	Product #	Opt. #	Price
• <b>HP OpenView NNM 250 5.x for UNIX LTU</b>	J1128AB		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OV NNM 250 Node Increment UNIX LTU</b>	J1129AB		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OpenView NNM Enterprise 5.x UNIX LTU</b>	J1130AB		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	



Description	Product #	Opt. #	Price
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• Upgrd NNM 250 to Enterprise 5.x UNIX LTU</b>	J1131AB		
Upgrd Qty 250 to Enterprise 5.x UNIX LTU		001	
Upgrd Qty 500 to Enterprise 5.x UNIX LTU		002	
Upgrd Qty 750 to Enterprise 5.x UNIX LTU		003	
Upgrd Qty 1000 to Enterprise 5.x LTU		004	
Upgrd Qty 1250 to Enterprise 5.x LTU		005	
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• Upgrd Entry NNM 4.x to 250 5.x UNIX LTU</b>	J1132AB		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• Upgrd NNM 4.x to Enterprise 5.x UNIX LTU</b>	J1133AB		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OpenView NNM 5.01 HP-UX Media</b>	J1134AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OpenView NNM 5.0x UNIX Manual</b>	J1136AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

Description	Product #	Opt. #	Price
• <b>HP OpenView NNM 5.01 Sun Solaris Media</b>	J1135AA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OV NNM Enterprise 6.2 for HP-UX LTU (price includes media/manuals/LTU)</b>	J1247AA		
First Year of System Support Option		0S2	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP R/3		0V1	
Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OV NNM 250 6.2 for HP-UX LTU (price includes media/manuals/LTU)</b>	J1248AA		
First Year of System Support Option		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP R/3		0V1	
Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OV NNM 250 Node Increment 6.x for HP-UX LTU</b>	J1249AB		
First Year of System Support Option		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP R/3		0V1	
Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OV NNM 250 to Enterprise 6.x for HP-UX LTU</b>	J1250AB		
Upgrd Qty 250 to Enterprise 6.x HP-UX		001	
First Year of System Support Option		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP R/3		0V1	
Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OV Upgrade to NNM Enterprise 6.2 for HPUX LTU</b>	J1251AA		
First Year of System Support Option		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP R/3		0V1	
Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>HP OV Upgrade to NNM 250 6.2 for HP-UX LTU</b>	J1252AA		
First Year of System Support Option		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP R/3		0V1	



Description	Product #	Opt. #	Price
Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OV Upgrade 250 Node Increment 5.x to 6.x for HP-UXTU</b>	J1253AB		
First Year of System Support Option		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP R/3		0V1	
Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OV NNMEnterprise 6.2 for Solaris LTU (price includes media/manuals/LTU)</b>	J1254AA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OV NNM 250 6.2 for Solaris LTU (price includes media/manuals/LTU)</b>	J1255AA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OV NNM 250 Node Increment 6.x for Solaris LTU</b>	J1256AB		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OV Upgrade NNM 250 to Enterprise 6.x for Solaris LTU</b>	J1257AB		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OV Upgrade to NNM Enterprise 6.2 for Solaris LTU</b>	J1258AA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OV Upgrade to NNM 250 6.2 for Solaris LTU</b>	J1259AA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• HP OV Upgrade 250 Node Increment 5.x to 6.x for Solaris LTU</b>	J1260AB		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

\* Upgrades NNM 3.31/4.x/5.x to NNM 4.11/5.x/6.x. Only one version may be used at a time.

## HP OpenView Network Node Manager Developer's Toolkit

Description	Product #	Opt. #	Price
• <b>HP OV NNM 5.x Developer's Toolkit LTU</b>	J1146AB		
First Year of System Support Option		OS5	
First Year of System Support Option		OT3	
First Year of System Support Option		OV3	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	
• <b>HP OV NNM 5.01 Dev Toolkit Win NT Media</b>	J1147AA		
First Year of System Support Option		OS5	
First Year of System Support Option		OT3	
First Year of System Support Option		OV3	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	
• <b>HP OV NNM Dev Toolkit 5.01 HP-UX Media</b>	J1148AA		
First Year of System Support Option		OS5	
First Year of System Support Option		OT3	
First Year of System Support Option		OV3	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	
• <b>HP OV NNM Dev Toolkit 5.01 Sun Media</b>	J1149AA		
First Year of System Support Option		OS5	
First Year of System Support Option		OS6	
First Year of System Support Option		OT3	
First Year of System Support Option		OV3	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y5	
Three Years of System Support Option		3Y6	
• <b>HP OV NNM 5.0x Dev Toolkit Manual</b>	J1150AA		
First Year of System Support Option		OS5	
First Year of System Support Option		OT3	
First Year of System Support Option		OV3	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	
• <b>HP OV NNM Developer's Toolkit 6.2 for Windows NT/2000 LTU</b>	J1261AA		
First Year of System Support Option		OS5	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	
• <b>HP OV NNM Developer's Toolkit 6.2 for HP-UX LTU</b>	J1262AA		
First Year of System Support Option		OS5	
Crit. System Support for Add'l Systems		OT3	
Crit. Syst. Support for SAP, add'l syst.		OV3	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	
• <b>HP OV NNM Developer's Toolkit 6.2 for Solaris LTU</b>	J1263AA		
First Year of System Support Option		OS5	



Description	Product #	Opt. #	Price
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

## HP OpenView Extensible SNMP Agent

Description	Product #	Opt. #	Price
<b>HP OV Extensible SNMP Agent 4.x LTU (1-9)</b>	J1182AB		
10-49			
50-199			
200-499			
500-999999			
First Year of System Support		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support		3Y2	
Three Years of System Support		3Y3	
Three Years of System Support		3Y6	
<b>Extensible SNMP Agent HP-UX CD-ROM Media</b>	J1183AA		
Telephone Assist System Support-1st Yr.		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support		3Y2	
Three Years of System Support		3Y3	
Three Years of System Support		3Y6	
<b>Extensible SNMP Agent Sun CD-ROM Media</b>	J1184AA		
Telephone Assist System Support-1st Yr.		OS6	
Three Years of System Support		3Y2	
Three Years of System Support		3Y3	
Three Years of System Support		3Y6	
<b>HP OV Extensible SNMP Agent Upgrade LTU</b>	J1185AB		
First Year of System Support		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
• SOLVE: Operations for OpenView-NNM Eng.	J4544AA		
• SOLVE: Operations for OpenView-NNM Eng.	J4545AA		
• SOLVE: Operations for OpenView-NNM Japan	J4546AA		
• SOLVE: Operations for OpenView-NNM Japan	J4547AA		

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

## HP OpenView NNM Multicast 2.0

NOTE: All products are bundled with one-year standard support.

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li><b>HP OV NNM Multicast 2.0 LTU HP-UX, media &amp; man, first year std. support</b></li> </ul>	J1245AA		
First Year of System Support Options (upgraded to 24x365)		OS6	
Three Years of System Support Options (standard coverage M-F 8-5 for 3 years)		3Y2	
Three Years of System Support Options (standard coverage M-F 8-5 for 3 years)		3Y3	
Three Years of System Support Options (3 years, 24x375)		3Y6	
<ul style="list-style-type: none"> <li><b>HP OV NNM Multicast 2.0 LTU Solaris, media &amp; man</b></li> </ul>	J1246AA		
First Year of System Support Options (upgraded to 24x365)		OS6	
Three Years of System Support Options (standard coverage M-F 8-5 for 3 years)		3Y2	
Three Years of System Support Options (standard coverage M-F 8-5 for 3 years)		3Y3	
Three Years of System Support Options (3 years, 24x375)		3Y6	

## HP OpenView Omniback II for the Mixed UNIX, Windows NT/2000, and NetWare Enterprise

NOTE: All products are bundled with one-year standard support.

The HP OpenView Omniback II 4.0 product structure is based on performance, by licensing the number of used backup drives. The more licenses that are ordered, the more backup drives can be used for backup in parallel, and the faster the backup will be performed.

In addition, the product structure is modular and offers more flexibility. Customers can specifically order the portion of Omniback II which they require. Backup agents are not licensed.

The Omniback II 4.0 product structure consists of three main modules for each UNIX and MS Windows NT/2000:

- Base product (two choices to start)
- Additional backup drive licenses (drive extensions)
- Functional extensions of the Omniback II Cell Manager

Description:	Product #	Opt #	Price
<b>Base Products</b>			
<ul style="list-style-type: none"> <li><b>HP OpenView Omniback II Cell Manager for HP-UX – Single Drive -- Starter Pack</b></li> </ul>	B6951AA/AJ <sup>(2)</sup>		
Contains the License-to-use for one Cell Manager, one concurrently used backup drive attached to a UNIX system, used in a SAN, or used for serverless backup; the capability to manage an unlimited number of Backup Agents, the ability to manage libraries with up to 60 slots, capability to share tape libraries between multiple systems; CD-ROM media for HP-UX and Windows NT/2000 and manuals.			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>HP OpenView Omniback II Cell Manager for Windows NT / 2000 – Single Drive</b></li> </ul>	B6961AA/AJ/AD/AF <sup>(2)</sup>		
Contains the License-to-use for one Cell Manager, one concurrently used backup drive attached to a Windows NT/2000, NetWare system, Linux (Intel). The capability to manage an			



Description:	Product #	Opt #	Price
unlimited number of Backup Agents on any supported platform, the ability to manage libraries with up to 60 slots, CD-ROM media for Windows NT/2000 and manuals.			
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li>Customer Care Extended Support</li> <li>Upgrade</li> </ul>	B6961PA B6961UA/UJ <sup>(3)</sup>		
<b>Drive Extensions</b>			
<ul style="list-style-type: none"> <li><b>HP OpenView Omniback II Drive for UNIX, NAS, SAN</b></li> </ul>	B6953AA		
License-to-use for one additional concurrently used backup drive attached to a UNIX system, a NAS device, used in a SAN, or used for serverless backup. The drive can be accessed and managed locally or via the network from a system with any Cell Manager license. Note: HP MPE systems and NAS (Network Attached Storage) file servers, for example Network Appliance filers require this license.			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>HP OpenView Omniback II Drive Extension for NT /2000, NetWare, Linux (Intel)</b></li> </ul>	B6963AA		
License-to-use for one additional concurrently used backup drive attached to a Windows NT/2000, NetWare, or Linux (Intel) system. The drive can be accessed and managed locally or via the network from a system with any Cell Manager license.			
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li>Customer Care Extended Support</li> <li>Upgrade</li> </ul>	B6963PA B6963UA		
<b>Functional Extensions</b>			
<ul style="list-style-type: none"> <li><b>HP OpenView Omniback II On-line Extension for UNIX</b></li> </ul>	B6955BA <sup>(2)</sup>		
Contains the License-to-use and manuals for on-line backup of databases and applications running on ONE UNIX and Windows NT/2000 system: Oracle on UNIX, Sybase on UNIX, Informix on UNIX, SAP R/3 on UNIX, MS SQL Server, MS Exchange Server, Oracle on Windows NT/2000, SAP R/3 on Windows NT. Required once for each system. Note: On-line Extension manuals are only provided electronically. For printed manuals, please order B6960Bx.			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>HP OpenView Omniback II On-line Extension for Windows NT / 2000</b></li> </ul>	B6965BA		
Contains the License-to-use and manuals for on-line backup of databases and applications running on ONE Windows NT/2000 systems: MS SQL Server, MS Exchange Server, Oracle on Windows NT/2000, SAP R/3 on Windows NT. Required once per each system. Note:			
<ul style="list-style-type: none"> <li>To use the new MS Exchange Server Single Mailbox Restore and Single Mail Restore feature this Licenses needs to be ordered once per each MS Exchange Server.</li> <li>On-line Extension manuals are only provided electronically. For printed manuals, please order B6960Bx</li> </ul>			
First Year of System Support Option		OS6	



Description:	Product #	Opt #	Price
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
• Customer Care Extended Support	B6965PA		
• Upgrade	B6965UA/UJ <sup>(3)</sup>		
• <b>HP OpenView Omniback II Manager-of-Managers Extension for UNIX</b>	B6956AA		
License-to-use for each Omniback II Cell Manager for HP-UX to be part of a Manager-of-Managers environment.			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
• <b>HP OpenView Omniback II Manager-of-Managers Extension for Windows NT / 2000</b>	B6966AA		
License-to-use for each Omniback II Cell Manager for Windows NT/2000 to be part of a Manager-of-Managers environment.			
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
• Customer Care Extended Support	B6966PA		
• Upgrade	B6966UA		
• <b>NDMP Server backup Extension</b>	B7022AA		
Contains the License-to-use to backup ONE NDMP Server. Required once per each Network Appliance filer. Note: At least one HP-UX system is required.			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
• <b>HP OpenView Omniback II 61 - 250 Slot Library Extension</b>	B6957BA		
License-to-use for managing tape libraries with 61-250 slots. Required once for each library.			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
• <b>HP OpenView Omniback II Unlimited Slot Library Extension</b>	B6958BA		
License-to-use for managing tape libraries with no slot limitation Required once for each library.			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	



Description:	Product #	Opt #	Price
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li> <b>HP OpenView Omniback II Open File Manager Enterprise Server</b>            Contains the License-to-use for ONE Windows 2000® Advanced Server, Windows® NT 4.0 Cluster II Server for open file backup of home grown applications, e-mail files (e.g. ".pst"-Microsoft Outlook files), Lotus Notes 4, and other databases on Windows 2000® that are not covered by the Omniback integration matrix. Required once for each Windows 2000® Advanced Server, Windows® NT 4.0 Cluster Server.         </li> </ul>	B7035AA		
<ul style="list-style-type: none"> <li> <b>HP OpenView Omniback II Open File Manager Server</b>            Includes the License-to-use for ONE Windows NT/2000 or Novell NetWare Server for open file backup of home grown applications, e-mail files (e.g. ".pst"-Microsoft Outlook files), Lotus Notes 4, and other databases on Windows® NT/ Windows 2000® / NetWare that are not covered by the Omniback II integration matrix. Required once for each server system         </li> </ul>	B7033AA		
<ul style="list-style-type: none"> <li> <b>HP OpenView Omniback II Open File Manager 5 Workstations</b>            Includes a package of 5 Licenses-to-use for Windows NT/2000 Professional for open file backup of home grown applications, e-mail files (e.g. .pst-Outlook files), and other databases on Windows® NT/ Windows 2000® / NetWare that are not covered by the Omniback II integration matrix.         </li> </ul>	B7034AA		
<ul style="list-style-type: none"> <li> <b>HP OpenView Omniback II Split Mirror Extension for HP Surestore xp disk arrays</b>            Contains the License-to-use and manual to perform split mirror backup of ONE HP SureStore xp disk array. Business Copy XP and Continuous Access XP. Includes the License-to-use for Oracle and SAP R/3 on-line backup based on the XP. Required once for each HP xp using split mirror backup.         </li> </ul>	B7023BA		
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li> <b>HP OpenView Omniback II Split Mirror Extension for EMC Symmetrix</b>            Contains the License-to-use and the manual to perform split mirror backup of ONE EMC Symmetrix with TimeFinder and EMC SRDF. Includes the License-to-use for Oracle and SAP R/3 on-line backup based on EMC Split mirror backup. Required once for each EMC Symmetrix using split mirror backup.         </li> </ul>	B6959BA		
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li> <b>HP OpenView Omniback II EMC Fastrax, extension</b>            Contains the License-to-use, and manual to integrate with EMC Fastrax data movement platform Includes the License-to-use for Oracle and SAP R/3 on-line backup based on EMC Fastrax data movement platform. Required once per each EMC Symmetrix using EMC Fastrax backup.         </li> </ul>	B7024AA		
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>Single Server Editions</b>			
<ul style="list-style-type: none"> <li> <b>HP OpenView Omniback II Single Server Edition for HP-UX</b>            Contains the License-to-use to backup ONE HP-UX server with an unlimited number of Unix and         </li> </ul>	B7020AA		

Description:	Product #	Opt #	Price
Windows 95, 98, Windows NT Workstations, Windows 2000 Professional clients, one concurrently used backup drive, CD-ROM media for HP-UX and Windows NT/2000, and manuals. <b>Note: Does not include the Cluster support.</b>			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
• Upgrade	B7020UA		
• <b>HP OpenView Omniback II Single Server Edition Migration to the Cell Manager HP-UX</b>	B7021AA		
Contains the License-to-use to migrate from B7020AA to B6951Ax - HP OpenView Omniback II Cell Manager Single Drive for HP-UX. . Note: <b>B7020Ax is the prerequisite to order this upgrade product</b>			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
• <b>HP OpenView Omniback II Single Server Edition for Windows NT / 2000</b>	B7030AA		
Contains the License-to-use to backup ONE Windows NT/2000 Server with an unlimited number of Windows 95, 98, Windows NT Workstation, Windows 2000 Professional clients, one concurrently used backup drive, CD-ROM media for Windows NT/2000 and manuals. Note: Does not include the Disaster Recovery and Microsoft Cluster Server support.			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	
• Customer Care Extended Support	B7030PA		
• Upgrade	B7030UA		
• <b>HP OpenView Omniback II Single Server Edition Migration to the Cell Manager Windows NT / 2000</b>	B7031AA		
Contains the License-to-use to migrate from B7030AA to B6961AA – HP OpenView Omniback II Cell Manager Single Drive for Windows NT / 2000. Note: <b>B7030Ax is the prerequisite to order this upgrade product</b>			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical System Support for SAP		OV1	
Critical System Support for SAP w/addl maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y6	

(2) BxxxxAJ: Japanese version of the BxxxxAA product number.

BxxxxAD: German version of the BxxxxAA product number.

BxxxxAF: French version of the BxxxxAA product number.

(3) BxxxxUJ: Japanese version of the BxxxxUA product number.

BxxxxAD: German version of the BxxxxUA product number.



BxxxxAF: French version of the BxxxxUA product number.

## HP OpenView OmniStorage

**NOTE: All products are bundled with one-year standard support.**

	Description	Product #	Opt. #	Price	
•	<b>HP OpenView OmniStorage 3.12 Manager LTU (1-4)</b>	B1974DA			
	5-9				
	10-24				
	25-49				
	50-999999				
	First Year of System Support Option.			OS6	
	Critical System Support			OT1	
	Crit System Support w/Impl Assistance			OT2	
	Critical Systems Support for SAP			OV1	
	Crit.Syst.Support for SAP w/add. maint.			OV2	
	Three Years of System Support Option			3Y2	
	Three Years of System Support Option			3Y3	
Three Years of System Support Option		3Y6			
•	<b>HP OpenView OmniStorage 3.12 Agent LTU (1-9)</b>	B1975DA			
	10-49				
	50-199				
	200-499				
	500-999999				
	First Year of System Support Option.			OS6	
	Critical System Support			OT1	
	Crit System Support w/Impl Assistance			OT2	
	Critical Systems Support for SAP			OV1	
	Crit.Syst.Support for SAP w/add. maint.			OV2	
	Three Years of System Support Option			3Y2	
	Three Years of System Support Option			3Y3	
Three Years of System Support Option		3Y6			
•	<b>HP OpenView OmniStorage 3.12 Media</b>	B1978DA			
	Telephone Assist System Support-1st Yr.			OS6	
	First Year of System Support Option			OT1	
	First Year of System Support Option			OT2	
	First Year of System Support Option			OV1	
	First Year of System Support Option			OV2	
	Telephone/Next Day System Support-3 Year			3Y2	
	Telephone/4-hr System Support - 3 Year			3Y3	
	SW Tel;HW Wty 24x7; Sys Supp - 3 Yr			3Y6	
	HP-UX version 10.20			APZ	
	•		<b>HP OpenView OmniStorage 3.12 Manual</b>	B1979DA	
Telephone Assist System Support-1st Yr			OS6		
First Year of System Support Option			OT1		
First Year of System Support Option.			OT2		
First Year of System Support Option.			OV1		
First Year of System Support Option.			OV2		
Telephone/Next Day System Support - 3 Year			3Y2		
Telephone/4-hr System Support - 3 Year			3Y3		
SW Tel;HW Wty 24x7; Sys Supp - 3 Year			3Y6		

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.



## HP OpenView Operations/Performance Add-On Products

Note: All products are bundled with one-year standard support.

Description	Product #	Opt. #	Price
• <b>OV Operations Developer's Toolkit LTU for HP-UX and Solaris</b>	B7411AA		
First Year of System Support Option		OS0	
First Year of System Support Option		OS1	
First Year of System Support Option		OS5	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	
• <b>OV Developer's Toolkit Media/Manual for HP-UX and Solaris</b>	B7492AA		
First Year of System Support Option		OS5	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	

## HP OpenView Operations/Performance Manager for HP-UX Add-On Products

Description	Product #	Opt. #	Price
• <b>OV Advanced Security5.x for HP-UX LTU, Media/Manuals</b>	B7412AA		
First Year of System Support Option. Critical System Support		OS6 OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>OV OS/390 Management LTU, HP-UX and Solaris</b>	B9120AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>OV OS/390 Management Media/Manuals</b>	B9122AA		
• <b>OV OS/400 Management LTU, HP-UX and Solaris</b>	B9121AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>OV OS/400 Management Media/Manuals</b>	B9123AA		
• <b>OV Service Navigator for HP-UX LTU</b>	B7413AA		
First Year of System Support Option. Critical System Support		OS6 OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>OV Event Correlation Designer for HP-UX LTU</b>	B7414AA		
First Year of System Support Option.		OS0	
First Year of System Support Option.		OS1	

Description	Product #	Opt. #	Price
First Year of System Support Option.		OS5	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	

### HP OpenView Operations/Performance Manager for Solaris Add-On Products

Description	Product #	Opt. #	Price
<ul style="list-style-type: none"> <li><b>OV Advanced Security5.x for Solaris, LTU, Media/Manuals</b></li> </ul>	B7412DA		
First Year of System Support Option		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV Service Navigator for Solaris LTU</b></li> </ul>	B7413DA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		2Y3	
Three Years of System Support Option		3Y3	
<ul style="list-style-type: none"> <li><b>OV OS/390 Management LTU, Solaris and HP-UX</b></li> </ul>	B9120AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV OS/390 Management Media/Manuals</b></li> </ul>	B9122AA		
<ul style="list-style-type: none"> <li><b>OV OS/400 Management LTU, Solaris andHP-UX</b></li> </ul>	B9121AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV OS/400 Management Media/Manuals</b></li> </ul>	B9123AA		
<ul style="list-style-type: none"> <li><b>OV Event Correlation Designer for Solaris LTU</b></li> </ul>	B7414DA		
HP ECS Designer LTU for NNM, Solaris			
HP ECS Designer LTU for ITO, Solaris			
First Year of System Support Option.		OS0	
First Year of System Support Option.		OS1	
First Year of System Support Option.		OS5	
Three Years of System Support Option		3Y0	
Three Years of System Support Option		3Y1	
Three Years of System Support Option		3Y5	

### HP OpenView Operations/Performance Manager for Windows Add-On Products

Description	Product #	Opt. #	Price
<ul style="list-style-type: none"> <li><b>OV Response Time Workbench LTU</b></li> </ul>	B7439WA		
NOTE 1: Requires policies generated using the HP OV Response Time Workbench (RTW). The policies are generated by a certified consultant and sold to customers in a consulting engagement. The RTW product is not sold directly to customers.			
NOTE 2: Requires an order for the OV Professional Agent for Professional Server LTU, B7432AA, for each desktop that will be measured.			

Description	Product #	Opt. #	Price
The LTU provides the unlimited right to deploy policies developed using the RTW product. It also provides a single LTU of the media and manuals for 1) Client Monitor agent, 2) MeasureWare for Windows NT Workstations, B7392AA, and 3) MeasureWare Desktop for Windows 95/98, B7393AA. Media and Manuals for each aforementioned product are included in this product. (Note that the Client Monitor is compatible with any Application Response Measurement, ARM Standard, compliant agent. Therefore, the customer can deploy policies to systems with any ARM standard agent)			
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	

## HP OpenView Operations/Performance Agents

Note: All products are bundled with one-year standard support.

### OpenView Operations/Performance Agents

Description	Product #	Opt. #	Price
<ul style="list-style-type: none"> <li><b>OV Operations/Performance Agent for Enterprise Server LTU</b></li> </ul>	B7418AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV Operations/Performance Agent for Datacenter Server LTU</b></li> </ul>	B7419AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV Operations/Performance Agent for Advanced Server LTU</b></li> </ul>	B7420AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV Operations/Performance Agent for Server LTU</b></li> </ul>	B7421AA		
First Year of System Support Option.		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV Operations/Performance Agent for Professional Server LTU</b></li> </ul>	B7422AA		
First Year of System Support Option.		OS6	
Desktop LTU for UNIX Servers, HP3000			
Desktop LTU for PC Servers			
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV Operations/Performance Agent for Multi-Vendor LTU</b></li> </ul>	B7442AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Desktop LTU for UNIX Servers, HP3000			
Desktop LTU for PC Servers			
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	



## OpenView Operations Agents

	Description	Product #	Opt. #	Price
•	<b>OV Operations Agent for Enterprise LTU</b>	B7423AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Crit System Support w/Impl Assistance		OT2	
	Critical Systems Support for SAP		OV1	
	Crit.Syst.Support for SAP w/add. maint.		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Operations Agent for Datacenter Server LTU</b>	B7424AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Crit System Support w/Impl Assistance		OT2	
	Critical Systems Support for SAP		OV1	
	Crit.Syst.Support for SAP w/add. maint.		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Operations Agent for Advanced Server LTU</b>	B7425AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Crit System Support w/Impl Assistance		OT2	
	Critical Systems Support for SAP		OV1	
	Crit.Syst.Support for SAP w/add. Maint.		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Operations Agent for Server LTU</b>	B7426AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Crit System Support w/Impl Assistance		OT2	
	Critical Systems Support for SAP		OV1	
	Crit.Syst.Support for SAP w/add. Maint.		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Operations Agent for Professional Server LTU</b>	B7427AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Critical System Support w/Impl Assistance		OT2	
	Critical Systems Support for SAP		OV1	
	Crit.Syst.Support for SAP w/add. maint.		OV2	
	Desktop LTU for UNIX Servers, HP 3000			
	Desktop LTU for PC Servers			
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Operations Agent for Multi-Vendor LTU</b>	B7443AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Crit System Support w/Impl Assistance		OT2	
	Critical Systems Support for SAP		OV1	
	Crit.Syst.Support for SAP w/add. maint.		OV2	
	Desktop LTU for UNIX Servers, HP 3000			





Description	Product #	Opt. #	Price
Desktop LTU for PC Servers			
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

## OpenView Performance Agents

Description	Product #	Opt. #	Price
<ul style="list-style-type: none"> <li> <b>OV Performance Agent for Enterprise Server LTU</b> </li> </ul>	B7428AA		
Upgrade credit for tier 2 SPUs			
Upgrade credit for tier 1 SPUs			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
Three Years of Software Support			
Three Years of Software Support			
<ul style="list-style-type: none"> <li> <b>OV Performance Agent for Datacenter Server LTU</b> </li> </ul>	B7429AA		
Upgrade credit for tier 1 SPUs			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
Three Years of Software Support			
Three Years of Software Support			
<ul style="list-style-type: none"> <li> <b>OV Performance Agent for Advanced Server LTU</b> </li> </ul>	B7430AA		
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
Three Years of Software Support			
Three Years of Software Support			
<ul style="list-style-type: none"> <li> <b>OV Performance Agent for Server LTU</b> </li> </ul>	B7431AA		
Upgrade credit for tier 1 SPUs			
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
Three Years of Software Support			



Description	Product #	Opt. #	Price
Three Years of Software Support			
• <b>OV Performance Agent for Professional Server LTU</b>	B7432AA		
First Year of System Support Option		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>OV Performance Agent for Multi-Vendor</b>	B7444AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

## HP OpenView Operations/Performance Core Products

Note: All products are bundled with one-year standard support.

### OpenView Operations/Performance for HP-UX

Description	Product #	Opt. #	Price
• <b>OV Operations/Performance for HP-UX, LTU</b>	B7405AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>OV Operations/Performance for HP-UX, Media</b>	B7490AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>OV Operations/Performance for HP-UX, English Manuals</b>	B7491AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	

Description	Product #	Opt. #	Price
Three Years of System Support Option		3Y6	

### OpenView Operations/Performance for Solaris

Description	Product #	Opt. #	Price
<b>OV Operations/Performance for Solaris, LTU</b>	B7405DA		
First Year of System Support Option.		0S6	
Critical System Support			
Crit System Support w/Impl Assistance			
Critical Systems Support for SAP			
Crit.Syst.Support for SAP w/add. maint.			
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV, Operations/Performance for Solaris, Media</b>	B7490DA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Operations/Performance for Solaris, English Manuals</b>	B7491DA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

### OpenView Operations for Windows

Description	Product #	Opt. #	Price
<b>OV Operations for Windows</b>	B7405WA		
First Year of System Support Option.		0S6	
Critical System Support			
Crit System Support w/Impl Assistance			
Critical Systems Support for SAP			
Crit.Syst.Support for SAP w/add. maint.			
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV for Windows Enterprise 6.x, Media</b>	B7503WA		
First Year of System Support Option		0S6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

Note: OV for Windows Enterprise media includes all media for OpenView Operations for Windows related components including manager, console, agents, NNM Adapter, SPI for Windows+, SPI for MS Exchange, SPI for SQL Server, SPI for Oracle, SPI for Informix, SPI for Sybase, SPI for SAP R/3, internet services (passive monitoring components) and OpenView Reporter. Online manuals are included, printed manuals are not available. Printed installation guide is provided.

## OpenView Operations

### OpenView Operations for HP-UX

Description	Product #	Opt. #	Price
<b>OV Operations for HP-UX, LTU</b>	B7406AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

Note: For Media, order B7490AA (OV Operations/Performance for HP-UX, Media)  
For Manuals, order B7491AA (OV Operations/Performance for HP-UX, English Manuals)

### OpenView Operations for Solaris

Description	Product #	Opt. #	Price
<b>OV Operations for Solaris, LTU</b>	B7406DA		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

## HP OpenView Operations/Performance Upgrades

Note: All products are bundled with one-year standard support.

### OpenView Operations/Performance Upgrade for HP-UX

Description	Product #	Opt. #	Price
<b>OV Operations /Performance Upgrade for HP-UX LTU</b>	B7409AA		
First Year of System Support Option		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Crit.Syst.Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

### OpenView Operations/Performance Upgrade for Solaris

Description	Product #	Opt. #	Price
<b>OV Operations/Performance Upgrade for Solaris LTU</b>	B7409DA		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

### OpenView Operations for HP-UX

Description	Product #	Opt. #	Price
<b>OV Operations Upgrade for HP-UX LTU</b>	B7410AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Critical Syst Support for SAP w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

### OpenView Operations for Solaris

Description	Product #	Opt. #	Price
<b>OV Operations Upgrade for Solaris LTU</b>	B7410DA		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

### OpenView Operations/Performance Upgrade Agents

Description	Product #	Opt. #	Price
<b>OV Operations/Performance Upgrade Agent for Tier 3 LTU</b>	B7433AA		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Operations/Performance Upgrade Agent for Tier 2 LTU</b>	B7434AA		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Operations/Performance Upgrade Agent for Tier 1 LTU</b>	B7435AA		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Operations/Performance Upgrade Agent for Desktop LTU</b>	B7436AA		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Operations/Performance Upgrade Agent for Multi-vendor LTU</b>	B7488AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Critical System Support w/Impl Assistance		OT2	
Critical Systems Support for SAP		OV1	
Critical Syst Support for SAP w/add. maint.		OV2	

Description	Product #	Opt. #	Price
<b>Three Years of System Support Option</b>		3Y2	
<b>Three Years of System Support Option</b>		3Y3	
<b>Three Years of System Support Option</b>		3Y6	
• <b>OV Operations/Performance Upgrade Agent for ManageX LTU</b>	B7437AA		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
• <b>OV Smart Plug-In for Windows + Upgrade Agent LTU</b>	B7438AA		
First Year of System Support Option		OS6	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

Note: The prices listed are for quantities between 1 and 999,999 unless otherwise indicated.

## Oracle for OpenView

Oracle for OpenView is an Application Specific Oracle License, which is supported by the following HP OpenView products: HP OpenView Operations for UNIX, HP OpenView Network Node Manager, HP OpenView IT/Administration, HP OpenView Reporter, HP OpenView IT Service Management, HP OpenView Service Desk. For compatibility information, please see the HP 9000 Configuration Guide or the HP OpenView Product Support Matrix (ESP, keyword SUPMTRX).

Description	Product #	Opt #	Price
• <b>Oracle for OpenView v8.0.6 for HP-UX 10.20 and 11.0, License To Use (LTU)</b>	ORA200BB		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.0.6 for HP-UX 10.20 and 11.0, 5 LTU Bundle for Service Bureaus*</b>	ORA205BB		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.0.6 for HP-UX 10.20 and 11.0, Media</b>	ORA230BB		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.0.6 for HP-UX 10.20 and 11.0, Evaluation Kit</b>	ORA240BB		
• <b>Oracle for OpenView v8.1.7 for HP-UX 11 (32bit), License to Use (LTU)</b>	ORA200BC		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.1.7 for HP-UX 11 (32bit), 5 LTU Bundle for Service Bureaus*</b>	ORA205BC		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.1.7 for HP-UX 11 (32bit), Media</b>	ORA230BC		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for Openview v8.1.7 for HP-UX 11 (32bit), Evaluation Kit</b>	ORA240BC		
• <b>Oracle for Openview v8.0.6 for Sun Solaris 2.6 and 7, License to Use (LTU)</b>	ORA400BB		



Description	Product #	Opt #	Price
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.0.6 for Sun Solaris 2.6 and 7, 5 LTU Bundle for Service Bureaus*</b>	ORA405BB		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.0.6 for Sun Solaris 2.6 and 7, Media</b>	ORA430BB		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.0.6 for Sun Solaris 2.6 and 7, Evaluation Kit</b>	ORA440BB		
• <b>Oracle for OpenView v8.1.7 for Sun Solaris 2.6, 7 and 8, License To Use (LTU)</b>	ORA400BC		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.1.7 for Sun Solaris 2.6, 7 and 8, 5 LTU Bundle for Service Bureaus*</b>	ORA405BC		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.1.7 for Sun Solaris 2.6, 7 and 8, Media</b>	ORA430BC		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.1.7 for Sun Solaris 2.6, 7 and 8, Evaluation Kit</b>	ORA440BC		
• <b>Oracle for OpenView v8.1.7 for Windows NT 4, License to Use (LTU)</b>	ORA300BC		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.1.7 for Windows NT 4, 5 LTU Bundle for Service Bureaus*</b>	ORA305BC		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.1.7 for Windows NT 4, Media</b>	ORA330BC		
First Year of System Support Option.		OS2	
First Year of System Support Option.		OS3	
First Year of System Support Option (24x7)		OS6	
• <b>Oracle for OpenView v8.1.7 for Windows NT 4, Evaluation Kit</b>	ORA340BC		

\* Service Bureaus must purchase one OfO license per subscriber. The 5 LTU Bundle license offers an attractive alternative to Service Bureaus. It is limited to five (5) subscribers, each of which may have an unlimited number of users. "Service Bureau" means a company that provides access to its computer hardware and software resources to third party customers for a fee in order to perform such third party customer's internal business processes on their behalf. "Subscriber" means a third party customer using the Software through a Service Bureau. If a Subscriber terminates its relationship with the Service Bureau, that Subscriber's license is deemed void.

## HP OpenView PolicyXpert

**NOTE: All products are bundled with one-year standard support.**

	Description	Product #	Opt #	Price
•	<b>HP OV PolicyXpert NT/Win 2000, LTU, M/M Includes License To Use for 100 Managed Resources</b>	J1360AB		
	First Year of System Support Options		OS6	
	Three Years of System Support Options		3Y2	
	Three Years of System Support Options		3Y3	
	Three Years of System Support Options		3Y6	
•	<b>HP OV PolicyXpert UNIX, LTU, M/M. Includes License to Use for 100 managed resources</b>	J1365AA		
	First Year of System Support Options		OS6	
	Three Years of System Support Options		3Y2	
	Three Years of System Support Options		3Y3	
	Three Years of System Support Options		3Y6	
•	<b>HP OV PolicyXpert LTU for two hundred (200) Incremental Resources for use with J1360AB</b>	J4781AB		
•	<b>HP OV PolicyXpert LTU for five hundred (500) Incremental Resources for use with J1360AB</b>	J4782AB		

## HP OpenView Problem Diagnosis

**NOTE: All products are bundled with one-year standard support.**

	Description	Product #	Opt #	Price
•	<b>HP OV Problem Diagnosis LTU, media, first year std. support</b>	J5135AA		
	First Year of System Support Options (upgraded to 24x365)		OS6	
	Three Years of System Support Options (standard coverage M-F 8-5 for 3 years)		3Y2	
	Three Years of System Support Options (standard coverage M-F 8-5 for 3 years)		3Y3	
	Three Years of System Support Options (3 years, 24x375)		3Y6	

## HP OpenView Reporter

	Description	Product #	Opt. #	Price
•	<b>OV Reporter LTU</b>	B7416WA		
	(NOTE: Requires MeasureWare or OpenView Performance Agents or OpenView Operations or SMART Plug-Ins or HP WebQoS)			
	First Year of System Support Option		OS6	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	





## HP OpenView Service Information Portal

NOTE: All products are bundled with one-year standard support.

Description	Product #	Opt #	Price
<ul style="list-style-type: none"> <li><b>HP OpenView Service Information Portal 2.0 – Windows NT/2000</b></li> </ul>	J4797AA		
First Year of System Support Options		OS6	
Three Years of System Support Options		3Y2	
Three Years of System Support Options		3Y3	
Three Years of System Support Options		3Y6	
<ul style="list-style-type: none"> <li><b>HP OpenView Service Information Portal 2.0 – HP-UX</b></li> </ul>	J4798AA		
First Year of System Support Options		OS6	
Three Years of System Support Options		3Y2	
Three Years of System Support Options		3Y3	
Three Years of System Support Options		3Y6	
<ul style="list-style-type: none"> <li><b>HP OpenView Service Information Portal 2.0 – Solaris</b></li> </ul>	J4799AA		
First Year of System Support Options		OS6	
Three Years of System Support Options		3Y2	
Three Years of System Support Options		3Y3	
Three Years of System Support Options		3Y6	

## HP OpenView SMART Plug-Ins

Note: All products are bundled with one year of standard support.

### HP OpenView SMART Plug-In for 724 Solutions Wireless Internet Platform

Description	Product#	Opt. #	Price
<ul style="list-style-type: none"> <li><b>OV 724 Solutions Wireless Internet Platform -SPI Enterprise LTU</b></li> </ul>	B9131AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for 724 Solutions Wireless Internet Platform SPI		OV1	
Crit.Syst.Support for 724 Solutions Wireless Internet Platform SPI w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV 724 Solutions Wireless Internet Platform -SPI Datacenter LTU</b></li> </ul>	B9130AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for 724 Solutions Wireless Internet Platform SPI		OV1	
Crit. Syst. Support for 724 Solutions Wireless Internet Platform SPI w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV 724 Solutions Wireless Internet Platform -SPI Advanced LTU</b></li> </ul>	B9129AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for 724 Solutions Wireless Internet Platform SPI		OV1	
Crit.Syst.Support for 724 Solutions Wireless Internet Platform SPI w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	

	Description	Product#	Opt. #	Price
	Three Years of System Support Option		3Y6	
•	<b>OV WAP Server SPIs -- Media, Manuals 1.x</b>	B9132AA		
	This provides the software and documentation for the License-to-Use (LTU) products for the "724 Solutions Wireless Internet Platform SPI " and the "Nokia Activ Server SPI ". The appropriate LTUs must be purchased in addition to the media/manuals.			

### HP OpenView SMART Plug-In for Nokia Activ Server

	Description	Product#	Opt. #	Price
•	<b>OV Nokia Activ Sever -SPI Enterprise LTU</b>	B9127AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Crit System Support w/Impl Assistance		OT2	
	Critical Systems Support for Nokia Activ Sever SPI		OV1	
	Crit.Syst.Support for Nokia Activ Sever SPI w/add. maint.		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Nokia Activ Sever -SPI Datacenter LTU</b>	B9126AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Crit System Support w/Impl Assistance		OT2	
	Critical Systems Support for Nokia Activ Sever SPI		OV1	
	Crit. Syst. Support for Nokia Activ Sever SPI w/add. maint.		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Nokia Activ Sever -SPI Advanced LTU</b>	B9125AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Crit System Support w/Impl Assistance		OT2	
	Critical Systems Support for Nokia Activ Sever SPI		OV1	
	Crit.Syst.Support for Nokia Activ Sever SPI w/add. maint.		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV WAP Server SPIs -- Media, Manuals 1.x</b>	B9132AA		
	This provides the software and documentation for the License-to-Use (LTU) products for the "724 Solutions Wireless Internet Platform SPI " and the "Nokia Activ Server SPI ". The appropriate LTUs must be purchased in addition to the media/manuals.			

### HP OpenView SMART Plug-In for Exchange

	Description	Product#	Opt. #	Price
•	<b>OV Smart Plug-In for MS Exchange Datacenter Server LTU</b>	B7449AA		
	First Year of System Support Option.		OS6	
	Critical System Support		OT1	
	Crit System Support w/Impl Assistance		OT2	
	Critical Systems Support for MS Exchange SPI		OV1	
	Crit.Syst.Support for MS Exchange SPI w/add. maint.		OV2	
	Three Years of System Support Option		3Y2	



Description	Product#	Opt. #	Price
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart-Plug-In for MS Exchange Advanced Server LTU</b>	B7450AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for MS Exchange SPI		OV1	
Crit. Syst. Support for MS Exchange SPI w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for MS Exchange- Server LTU</b>	B7451AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for MS Exchange SPI		OV1	
Crit. Syst. Support for MS Exchange SPI w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for MS Exchange Media, Manual 3.x</b>	B7495AA		
First Year of System Support Option.		OS6	
Critical System Support		OT1	
Crit System Support w/Impl Assistance		OT2	
Critical Systems Support for MS Exchange SPI		OV1	
Crit.Syst.Support for MS Exchange SPI w/add. maint.		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

**HP OpenView SMART Plug-In for PeopleSoft**

Description	Product #	Opt. #	Price
<b>• OV Smart Plug-In for PeopleSoft Enterprise Server LTU</b>	B7452AA		
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for PeopleSoft Datacenter Server LTU</b>	B7453AA		
First Year of System Support Option		OS6	
First Year of System Support Option		OT1	
First Year of System Support Option		OT2	
First Year of System Support Option		OV1	
First Year of System Support Option		OV2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for PeopleSoft Advanced Server LTU</b>	B7454AA		
First Year of System Support Option		OS6	



	Description	Product #	Opt. #	Price
	First Year of System Support Option		0T1	
	First Year of System Support Option		0T2	
	First Year of System Support Option		0V1	
	First Year of System Support Option		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV SMART Plug-In for PeopleSoft Media/Manual 1.x</b>	B7496AA		
	First Year of System Support Option		0S6	
	First Year of System Support Option		0T1	
	First Year of System Support Option		0T2	
	First Year of System Support Option		0V1	
	First Year of System Support Option		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	

### HP OpenView SMART Plug-In for SAP R/3

	Description	Product #	Opt. #	Price
•	<b>OV Smart Plug-In for SAP Enterprise Server LTU</b>	B7456AA		
	First Year of System Support Option.		0S6	
	Critical System Support		0T1	
	Crit. System Support w/Impl Assistance		0T2	
	Critical Systems Support for SAP R/3		0V1	
	Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Smart Plug-In for SAP Datacenter Server LTU</b>	B7457AA		
	First Year of System Support Option.		0S6	
	Critical System Support		0T1	
	Crit. System Support w/Impl Assistance		0T2	
	Critical Systems Support for SAP R/3		0V1	
	Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Smart Plug-In for SAP Advanced Server LTU</b>	B7458AA		
	First Year of System Support Option.		0S6	
	Critical System Support		0T1	
	Crit. System Support w/Impl Assistance		0T2	
	Critical Systems Support for SAP R/3		0V1	
	Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>OV Smart Plug-In for SAP Server LTU</b>	B7459AA		
	First Year of System Support Option.			
	Critical System Support			
	Crit. System Support w/Impl Assistance			
	Critical Systems Support for SAP R/3			
	Crit. Syst. Support for SAP R/3 w/add Maint.			
	Three Years of System Support Option			



Description	Product #	Opt. #	Price
Three Years of System Support Option			
Three Years of System Support Option			
<b>• OV Smart Plug-In for SAP Media/Manual 7.x for OpenView Operations for HP-UX</b>	B7497AA		
First Year of System Support Option.		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for SAP R/3		0V1	
Crit. Syst. Support for SAP R/3 w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

### HP OpenView SMART Plug-In for Informix

Description	Product #	Opt. #	Price
<b>• OV Smart Plug-In for Informix Advanced Server LTU</b>	B7460AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for Informix Datacenter Server LTU</b>	B7461AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for Informix Advanced Server LTU</b>	B7462AA		
50-199			
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for Database Media/Manual 3.x</b>	B7498AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In SAP for OpenView Operations for HP-UX Media/Manual 7.x</b>			
First Year of System Support Option		0S6	

Description	Product #	Opt. #	Price
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

### HP OpenView SMART Plug-In for Oracle

Description	Product #	Opt. #	Price
<ul style="list-style-type: none"> <li> <b>OV Smart Plug-In for Oracle Enterprise Server LTU</b> </li> </ul>	B7464AA		
First Year of System Support Option.		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li> <b>OV Smart Plug-In for Oracle Datacenter Server LTU</b> </li> </ul>	B7465AA		
First Year of System Support Option.		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li> <b>OV Smart Plug-In for Oracle Advanced Server LTU</b> </li> </ul>	B7466AA		
First Year of System Support Option.		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li> <b>OV Smart Plug-In for Oracle Server LTU</b> </li> </ul>	B7467AA		
First Year of System Support Option.		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li> <b>OV Smart Plug-In for Database Media/Manual 3.x</b> </li> </ul>	B7498AA		

## HP OpenView SMART Plug-In for Sybase

Description	Product #	Opt. #	Price
<b>• OV Smart Plug-In for Sybase Enterprise Server LTU</b>	B7468AA		
First Year of System Support Option		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for Sybase SPI		0V1	
Crit. Syst. Support for Sybase SPI w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for Sybase Datacenter Server LTU</b>	B7469AA		
First Year of System Support Option		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for Sybase SPI		0V1	
Crit. Syst. Support for Sybase SPI w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for Sybase Advanced Server LTU</b>	B7470AA		
First Year of System Support Option		0S6	
Critical System Support		0T1	
Crit. System Support w/Impl Assistance		0T2	
Critical Systems Support for Sybase SPI		0V1	
Crit. Syst. Support for Sybase SPI w/add Maint.		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for Database Media/Manual 3.x</b>	B7498AA		

## HP OpenView SMART Plug-In for MS SQL Server

Description	Product #	Opt. #	Price
<b>• OV Smart Plug-In for MS SQL Datacenter Server LTU</b>	B7473AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for MS SQL -Advanced Server LTU</b>	B7474AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for MS SQL Server LTU</b>	B7475AA		
First Year of System Support Option		0S6	



Description	Product #	Opt. #	Price
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for Database Media/Manual 3.x</b>	B7498AA		

### HP OpenView SMART Plug-In for Tuxedo

Description	Product #	Opt. #	Price
<b>• OV Smart Plug-In for BEA Tuxedo Enterprise Server LTU</b>	B7476AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for BEA Tuxedo Datacenter Server LTU</b>	B7477AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV Smart Plug-In for BEA Tuxedo Advanced Server LTU</b>	B7478AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>• OV BEA Tuxedo-SPI Media/Manual 1.x</b>	B7499AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	



## HP OpenView SMART Plug-In for Remedy

Description	Product #	Opt. #	Price
<b>OV Smart Plug-In for RemedyLTU</b>	B7480AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Smart Plug-In Remedy Media/Manual 2.x</b>	B7500AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

## HP OpenView SMART Plug-In for Windows+

Description	Product #	Opt. #	Price
<b>OV Smart Plug-In for MS Windows + Datacenter Server LTU</b>	B7481AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Smart Plug-In for MS Windows + Advanced Server LTU</b>	B7482AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<b>OV Smart Plug-In for MS Windows + Server LTU</b>	B7483AA		
First Year of System Support Option		0S6	
First Year of System Support Option		0T1	
First Year of System Support Option		0T2	
First Year of System Support Option		0V1	
First Year of System Support Option		0V2	
Three Years of System Support Option		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	

## HP OpenView Software Distributor 2.10

**NOTE:** All products are bundled with one-year standard support.

	Description	Product #	Opt #	Price
•	<b>HP OpenView Software Distributor v2.10 right-to-use for HP-UX Controller</b>	J1370AA		
	1-100 nodes			
	101-999 nodes			
	1000+ nodes			
	First Year of System Support Option		OS6	
	First Year of System Support Option		OT1	
	First Year of System Support Option		OT2	
	First Year of System Support Option		OV1	
	First Year of System Support Option		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>HP OpenView Software Distributor v2.10 right-to-use for UX Agents: HP-UX, AIX, Solaris, NT</b>	J1371AA		
	1-100 nodes			
	101-999 nodes			
	1000+ nodes			
	First Year of System Support Option		OS6	
	First Year of System Support Option		OT1	
	First Year of System Support Option		OT2	
	First Year of System Support Option		OV1	
	First Year of System Support Option		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>HP OpenView Software Distributor v2.10 right-to-use for UX Agents: HP-UX, AIX, Solaris, NT (includes one software license for number of nodes on each order)</b>	J1371LA		
	1-100 nodes			
	101-999 nodes			
	1000+ nodes			
	First Year of System Support Option		OS6	
	First Year of System Support Option		OT1	
	First Year of System Support Option		OT2	
	First Year of System Support Option		OV1	
	First Year of System Support Option		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	
•	<b>HP OpenView Software Distributor v2.10 Media &amp; Documentation for Controller &amp; Agents</b>	J1372AA		
	First Year of System Support Option		OS6	
	Critical System Support Option		OT1	
	Critical System Support Option (with Implementation Assistance)		OT2	
	Critical System Support for SAP Option		OV1	
	Critical System Support for SAP Option (w/additional maintenance)		OV2	
	Three Years of System Support Option		3Y2	
	Three Years of System Support Option		3Y3	
	Three Years of System Support Option		3Y6	

## HP OpenView Storage Area Manager

Description	Product #	Opt. #	Price
• <b>OV Storage Area Mgr Media, 4App+2TB LTU</b>	H3270AA		
First Year of System Support Option OS2/3 bundled with H3270AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
Additional Documents		Q00	
• <b>OV Storage Area Mgr, 1TB LTU</b>	H3271AA		
First Year of System Support Option OS2/3 bundled with H3271AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
• <b>OV Storage Allocator Media, App+2TB LTU</b>	H3272AA		
First Year of System Support Option OS2/3 bundled with H3272AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
Additional Documents		Q00	
• <b>OV Storage Allocator 1TB LTU</b>	H3273AA		
First Year of System Support Option OS2/3 bundled with H3273AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
• <b>OV Storage Node Mgr Media, App+2TB LTU</b>	H3274AA		
First Year of System Support Option OS2/3 bundled with H3274AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
Additional Documents		Q00	



Description	Product #	Opt. #	Price
<b>OV Storage Node Mgr 1TB LTU</b>	H3275AA		
First Year of System Support Option OS2/3 bundled with H3275AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
<b>OV Storage Optimizer Media, App+2TB LTU</b>	H3276AA		
First Year of System Support Option OS2/3 bundled with H3276AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
Additional Documents		Q00	
<b>OV Storage Optimizer 1TB LTU</b>	H3277AA		
First Year of System Support Option OS2/3 bundled with H3277AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
<b>OV Storage Builder Media, App+2TB LTU</b>	H3278AA		
First Year of System Support Option OS2/3 bundled with H3278AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
Additional Documents		Q00	
<b>OV Storage Builder 1TB LTU</b>	H3279AA		
First Year of System Support Option OS2/3 bundled with H3279AA		--	
First Year of 24x7 System Support Option		OS6	
Three Years of Standard System Support Option		3Y2	
Three Years of Standard System Support Option		3Y3	
Three Years of 24x7 System Support Option		3Y6	
Contractual Support - Phone-in Assistance		H00	
Contractual Support - 24x365 Phone-in Assistance		H24	
Contractual Support - LTU Update		L00	
Contractual Support - SW Support		SL3	
<b>OpenView Storage Area Management SW Implementation Service</b>	H9142A		
<b>OpenView Storage Allocator Implementation Service</b>	H7042A		

## HP OpenView Web Transaction Observer

Description	Product #	Opt. #	Price
<ul style="list-style-type: none"> <li><b>OV Web Transaction Observer LTU First 50 Transactions</b></li> </ul>	B7417WA		
(NOTE: Observes any web server platform)			
First Year of System Support Option.		0S6	
Three Years of System Support Option.		3Y2	
Three Years of System Support Option		3Y3	
Three Years of System Support Option		3Y6	
<ul style="list-style-type: none"> <li><b>OV Web Transaction Observer Media &amp; Manual</b></li> </ul>	B7493WA		
<ul style="list-style-type: none"> <li><b>OV Web Transaction Observer LTU Additional 50 Transactions PAK</b></li> </ul>	B7441WA		
First Year of System Support Option			
Three Years of System Support Option			
Three Years of System Support Option			
Three Years of System Support Option			

## HP WebQoS Software

HP WebQoS is patented, server-based, software technology for high-volume Web applications. HP WebQoS ensures consistent response-times for Web applications by preventing performance degradation due to an over-loaded web site or a denial-of-service attack. HP WebQoS can also ensure that top priority customers and accounts are guaranteed access to a site. HP WebQoS provides valuable data on actual user counts and web application response-times. WebQoS provides measurement and event integration with the HP OpenView VantagePoint family of products.

HP WebQoS works with all web applications that use iPlanet or IIS web servers. It is the only product on the market that can enforce user count and response-time limits; allowing service providers to offer strong and meaningful business-level SLAs. WebQoS complements Internet load-balancing products by managing user sessions and transaction volumes while load-balancers manage network bandwidth.

**NOTE: All products are bundled with one-year standard support.**

Description	Product #	Opt. #	Price
<ul style="list-style-type: none"> <li><b>HP WebQoS Version 2 up to 4 CPU License &amp; CDROM HP-UX</b></li> </ul>	B8311AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
<ul style="list-style-type: none"> <li><b>HP WebQoS Version 2 up to 12 CPU LTU &amp; CD HP-UX</b></li> </ul>	B8703AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
<ul style="list-style-type: none"> <li><b>HP WebQoS Version 2 over 12 CPU LTU &amp; CD HP-UX</b></li> </ul>	B8704AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
<b>Requirements: HP-UX 11 / iPlanet 4.1</b>			
<ul style="list-style-type: none"> <li><b>HP WebQoS Version 2 up to 4 CPU License &amp; CDROM Solaris</b></li> </ul>	B9099AA		
One Year 8x5 Subscription and Maintenance		0S3	

Description	Product #	Opt. #	Price
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
• <b>HP WebQoS Version 2 up to 12 CPU LTU &amp; CD Solaris</b>	B9100AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
• <b>HP WebQoS Version 2 over 12 CPU LTU &amp; CD Solaris</b>	B9101AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
<b>Requirements: Solaris 2.6, 7 / NES 3.6; Solaris 8 / iPlanet 4.1</b>			
• <b>HP WebQoS Version 2 LTU, CD, &amp; Docs Windows 2000</b>	B9373AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
<b>Requirements: Windows 2000 Server / IIS 5.0</b>			
• <b>HP WebQoS Version 2 LTU, CD, &amp; Docs Windows NT</b>	B8310AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
<b>Requirements: NT Server 4.0 / IIS 4.0</b>			
• <b>HP WebQoS Peak LTU, CD, &amp; Docs Linux</b>	B8306AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
<b>Requirements: Linux 2.x or Red Hat 6.0 / Apache 2.x</b>			
• <b>HP WebQoS Peak Packaged Edition for HP 9000 servers</b>	J4274AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
• <b>HP WebQoS Peak for HP 9000 workstations</b>	J4270AA		
One Year 8x5 Subscription and Maintenance		0S3	
One Year 24x7 Subscription and Maintenance		0S6	
Three Years 8x5 Subscription and Maintenance		3Y3	
Three Years 24x7 Subscription and Maintenance		3Y6	
<b>Requirements: HP-UX 11 / Apache 2.x</b>			

**General Configuration and Ordering Instructions**

- HP WebQoS is a Web server add-on and installs on each system running Web server software.
- A central SCO (Service Control Operator) module is installed on one of the Web server systems or a management system.
- The SCO is included with the product and is not sold separately.
- The administration GUI is installed on any system and is also included with the product.
- Quote one copy of HP WebQoS for each system running Web server software.
- Only the HP-UX and Solaris products are sold on a # CPUs/ system basis.
- First year standard HP support is included with the product.

**HP WebQoS Site Licensing and Factory Specials**

Please call your regional HP Software marketing contact for information on quoting a site license or requesting factory-based project services.

## Introduction

This section provides ordering instructions for HP Systems Support. For more information, refer to the HP 9000 Enterprise Server Configuration Guide, Chapter 10, "How to Configure Support".

## HP System Support Products & Options

The HP System Support programs offer your customer software support services and enhancements to hardware support offered by warranty coverage.

### Key program features include:

- Enhanced hardware coverage and response and software support for systems, workstations, peripherals, and stand-alone software
- Choice of one year or three year periods
- Ability to quote and order support as a product option at the time of product purchase
- Available installation and network configuration support products
- Higher level of customer solutions available with Personalized System Support (PSS) and Critical Systems Support (CSS)

Effective December 1<sup>st</sup>, 2000, HP will introduce System Support Products. During FY01, System Support Products will replace System Support Options. The table below shows the new product numbers and the options they replace. On December 1<sup>st</sup>, HP 9000 hardware and storage products will carry the new support structure. Software products will follow later in FY01. For more information, access ESP and use the keyword CATS.

The following table illustrates the specifics of each HP System Support Product/Option.

<b>One Year Support Products (H440xA)</b>	<b>H4400A</b>	<b>H4401A</b>	<b>H4402A</b>	<b>H4403A</b>	<b>H4404A</b>	<b>H4405A</b>	<b>H4412A</b>	<b>H4415A</b>	<b>H4416A</b>
<b>Three Year Support Products (H440xY)</b>	<b>H4400Y</b>	<b>H4401Y</b>	<b>H4402Y</b>	<b>H4403Y</b>	<b>H4404Y</b>	<b>H4405Y</b>	<b>H4412Y</b>	<b>H4415Y</b>	<b>H4416Y</b>
<b>One Year Support Options (OSx)</b>	<b>OS0</b>	<b>OS2</b>	<b>OS1</b>	<b>OS3</b>	<b>OS5</b>	<b>OS6</b>			
<b>Three Year Support Options (3Yx)</b>	<b>3Y0</b>	<b>3Y2</b>	<b>3Y1</b>	<b>3Y3</b>	<b>3Y5</b>	<b>3Y6</b>			
Next Day, Mon – Fri Hardware Support	X	X							
4-hour, Mon – Fri Hardware Support			X	X					
4-hour, 24x7 Hardware Support					X	X			
License to Use Software Updates	X	X	X	X	X	X	X	X	X
Software and Documentation Updates	X	X	X	X	X	X	X	X	X
Access to Electronic Support	X	X	X	X	X	X	X	X	X
Phone-in Software Assistance		X		X		X		X	X
24x7 Software Support**						X			X

\*\* Available on selected products. Consult Corporate Price List or HP IT Resource Center for eligible products.

### Notes:

1. For each H440xA and H440xY combination, the deliverables are the same and only the duration of coverage differs.
2. Phone-in Software Assistance is available Monday through Friday, excluding HP holidays, during normal HP Response Center hours for all HP and selected non-HP software products. After-hours support is available for selected operating system, subsystem, and application software products. Refer to the HP IT Resource Center database for details of products and coverage hours.
3. Phone-in Software Assistance is highly recommended for all systems. Not all support features are offered for every supported product. Some of the hardware support features are included with the standard warranty for the product.



4. Hardware support response times during warranty apply if customer's system is within 100 miles of a primary HP Support Responsible Office. For locations beyond 100 miles, refer to Table 5 in the Standard HP System Support Products Technical Data Sheet.
5. Outside the U.S., HP System Support Product/Options are locally defined. Not all support products/options are available in all countries.

### **3-Year Support Option Requirements:**

1. Customers purchasing 3-Year System Support Products for HP9000 servers, storage and workstations must purchase 3-Year System Support Products/Options for all integrated components and software in their contract. It is not possible to integrate one-year and three-year System Support Products/Options on the same contract.
2. Personalized System Support (PSS), may be sold in conjunction with HP Multiyear Support Products/Options ; however, PSS must be reviewed and renewed on an annual basis.
3. H4725A and H4726A are per-incident services and are not available as 3-Year Support Products/Options.
4. Customers must agree to accept CD-ROM media as the default media type for software updates for HP9000 Servers and Workstations.
5. 3-Year is not available on all products. Consult the Corporate Price List for eligible products.

### **H4375A - Personalized System Support (previously 0S9)**

- Requires H4401A, H4403A or H4405A for 1-year support products
- Requires H4401Y, H4403Y or H4405Y for 3-year support products
- Ordered on the SPU product number
- H4375A is only offered in a 1-Year coverage period, but may be sold in conjunction with 3-Year Support Product/Option

### **H4725A - Onsite Hardware Installation and Network Configuration (previously 0S4)**

- For HP Servers, Storage Products, and add-on products with or without a network component that **don't include** basic hardware installation in the purchase price
- H4725A is a one-time event

### **H4726A - Onsite Network Configuration (previously 0SZ)**

- For HP Servers and add-on products with a network component that **include** basic hardware installation in the purchase price. Order H4726A option to receive Network Configuration services on these products.
- H4726A is a one time event

### **H4385A/H4386A Critical Systems Support for High Availability (previously 0T1, 0T2, 0T3)**

**H4385A**- this service targets existing HP customers and some newer HP customers more experienced in high availability environments. It includes a hardware call-to-repair commitment, 24x365 phone-in support and priority system recovery (in case of critical problems), an Operation Checkup, and proactive account support. Software, license-to-use, media, and updates are also included.

**H4386A** - this service targets new HP customers who will have a greater reliance on proactive HP assistance during their first year of support. In addition to the features of H4385A, the proactive support for H4386A includes additional implementation assistance.

**Option 0UB 24x365 Network Support for mid-size environment.**

- Supports an environment:
  - up to 7 Servers or,
  - up to 14 Network Devices (routers, switches, bridges, and hubs) or,
  - up to 700 Clients
- Must be ordered with H4385A or H4386A

## Selecting the Appropriate Support

### Key Things to Remember When Ordering HP System Support Products/Options

- HP System Support Products/Options **MUST** be ordered at the same level of support. When you order support across the configuration, you **MUST** have the same level of support as you choose for the system.
- When you order support on stand-alone software applications, the customer must have existing support or must purchase support at the same level on their HP Operating Environment.
- If you want HP Operating Environment Support to a certain enhanced level, you need to order the same level of support on the hardware system as on the operating system.

### Important Information to Obtain From Your Customer

The following few questions provide critical information used for the set-up and delivery of support. Once this information is obtained, provide to your Order Processing Coordinator when placing an order.

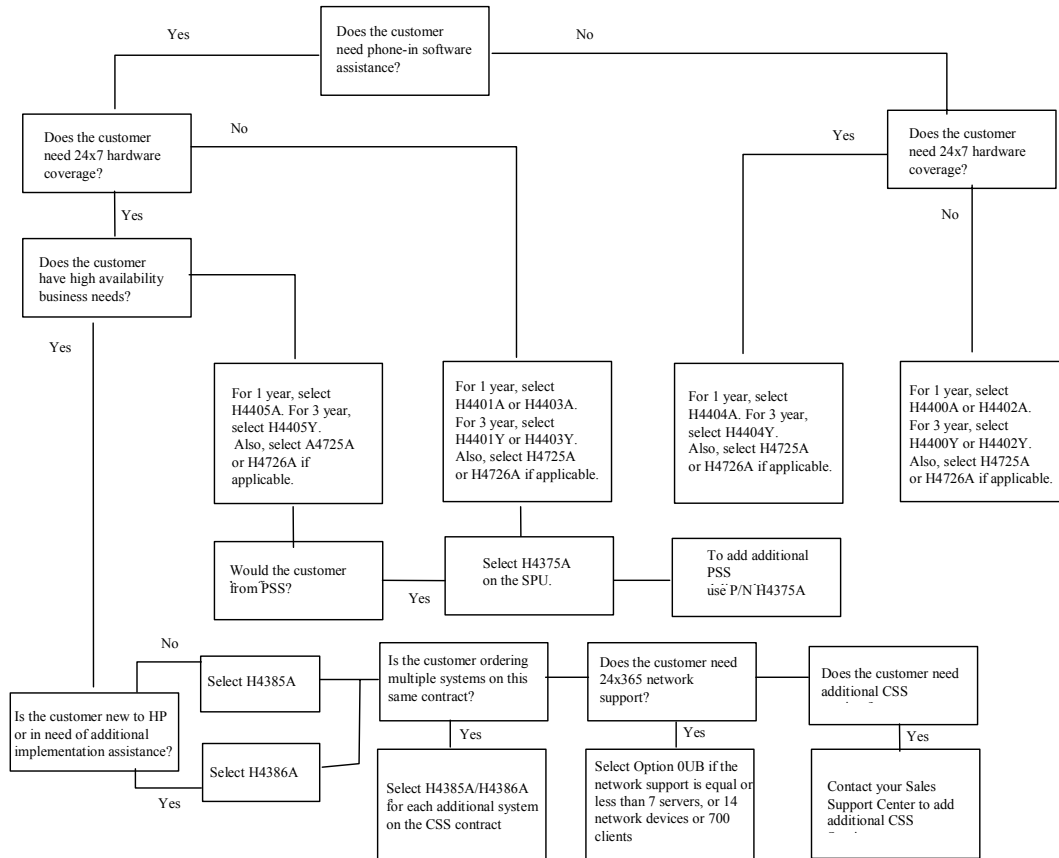
- Who is the assigned "system manager" and HP Response Center caller?
- What is the "system manager's" phone number?
- Who are the alternate callers for phone-in software assistance support?
- What is the existing support identifier for the customer's software support (system support) agreement?
- What type of media and documentation format does the customer want (i.e. should match the OE)?
- What support does the customer currently have?
- What is the customer's address where the system will be located? (CSS only)
- Does the customer have an existing CSS contract? What is this contract number?(CSS only)

### Ordering Support for Systems

To select the appropriate options, follow these steps:

1. Determine whether the customer wants Phone-In Software Assistance for support of the system being purchased. If YES, select H4401A, H4403A or H4405A for 1-year support OR H4401Y, H4403Y or H4405Y for 3-year support. If NO, select H4400A, H4402A or H4404A for 1-year support OR H4400Y, H4402Y or H4404Y for 3-year support.
2. Determine if the customer needs 24x7 coverage for hardware repairs. If YES, determine if the customer has high availability business needs. If NO, select H4404A or H4405A for 1 year support OR H4404Y or H4405Y for 3-year support depending on software support needs.
3. If the customer does have high availability needs, determine if the customer could benefit from implementation support. If NO, order H4385A, if YES, order H4386A. Determine if the customer needs 24x365 Network Support. If YES, order 0UB.
4. If phone-in software assistance was selected, determine whether the customer will benefit from individualized, proactive account attention. If YES, select H4375A, Personalized System Support, on the SPU product in addition to H4401A, H4403A, H4405A, H4401Y, H4403Y or H4405Y.
5. If H4375A was selected, determine whether the customer will benefit from additional PSS deliverables. If YES, add a minimum of one of the following:
  - Opt. 0NY Additional technical services activities
  - Opt. 0QA Additional patch analysis
  - Opt. 0QB Patch analysis for other systems

6. Determine if the customer needs installation and network configuration. If yes, select the either H4725A or H4726A.



NOTE: All products that constitute the minimum system configuration must be covered at the same HP System Support service level.

## HP 9000 Server Integration Services

The HP 9000 Server Integration Services offer your customer additional integration & installation services that help expedite the deployment of system solution according to customer requirements.

### Key Service Features

- SmartSet Service as your turnkey solution, including the following HW/SW integration services:
  - Customized integration
  - Hardware integration & configuration
  - Software integration & installation
  - Solution testing
  - Project management to coordinate inventory, integration, and delivery
  - Solution documentation
  - Solution presentation and repackaging

- SmartSet Add-on services that enable your system solution to be mission-critical ready:
  - MC Service Guard HA Installation
  - SAP R/3 Initial Installation
  - Omniback Installation
  - XP256, XP512 Storage Integration
  - Relational Database SW Load
- Additional custom integration and installation services to meet many other complex and customer-specific requirements.

### Selecting the Appropriate Services

#### Key Things to Remembers When Ordering HP 9000 Integration & Installation Services

- The SmartSet Service (H3346A) is the base service upon which other add-on services are made possible. Remember to order the SmartSet if your customer also needs MC Service Guard HA Installation, Omniback Installation, SAP R/3 Initial Installation, XP256 and XP512 Integration, or Relational Database SW Load.
- For a SmartSet order with multiple servers, Option 001 (or Option 002, Option 003) can be ordered for the first server and Option 004 (or Option 005, Option 006) can be ordered for each repetitive server– provided that the repetitive servers have identical configurations as the first server, are ordered at the same time and delivered to the same site.
- When the SmartSet Service is ordered, there is no need to order H4725A or H4726A for the UNIX servers included in the SmartSet Service. Order the SmartSet Installation Service to receive Onsite Installation of one pre-integrated rack solution. The integration is performed at HP Integration Center and then coordinated with the field for onsite delivery. However, H4725A and/or H4726A may still need to be ordered for other hardware components like DAT, DLT's, CD-ROMs, or LAN link products.
- As part of the Smart Set purchase, the customer will receive a questionnaire to help HP customize the integration of the solution. The questionnaire needs to be returned to the HP Global Integration & Installation Team within five business days from date of receipt.

The following table illustrates the specifics of the services:

	Description	Product #	Opt #	Price
•	<b>SmartSet – HW/SW Integration Services on HP-UX</b>	H3346A		
	Option 001: T-class and V-class initial server		001	
	Option 002: N-class and K-class initial server		002	
	Option 003: D, L, A, R-class initial server		003	
	Option 004: T-class and V-class repetitive server		004	
	Option 005: N-class and K-class repetitive server		005	
	Option 006: D, L, A, R-class repetitive server		006	
•	<b>SmartSet Add-on – XP256, XP512 Integration Service</b>	H3347A		
	Option 001: XP256 Enhanced Integration		001	
	Option 002: XP256 Custom Integration		002	
	Option 003: XP512 Enhanced Integration		003	
•	<b>SmartSet Add-on – Relational Database SW Load</b>	H3348A		
•	<b>SmartSet Add-on – MC Service Guard HA Installation Service</b>	H3350A		
	Option 001: MC Service Guard basic installation		001	
	Option 002: MC Service Guard installation with SAP		002	
	Option 003: MC Service Guard HA Configuration Service		003	
•	<b>SmartSet Add-on – SAP R/3 Initial Installation Service</b>	H4100A		
	Option 001: One central instance of SAP system		001	
	Option 002: Installation on additional server		002	
•	<b>SmartSet Add-on – Omniback Installation Service</b>	H4101A		
•	<b>Customer-specific Application/Customer Data Load</b>	H4108A		
	Option 001: Customer Application Installation		001	
	Option 002: Customer Data Load		002	



Description	Product #	Opt #	Price
• <b>Solution Presentation and Repackaging Server</b>	H4109A		
• <b>Custom Integration</b>	H3370A		
Option 001: UNIX servers		001	
Option 003: UNIX workstations		003	
<b>SmartSet Installation Service</b>	H4775A		
• <b>Custom Installation</b>	H6225A		
• <b>Project Management Service</b>	H6371AA		

**Ordering Integration Services for HP9000 Servers**

To select the appropriate services, follow these steps:

1. Determine the configurations of the servers included in the purchase. Also determine if the system solutions are to be delivered at the same time and to the same site.
2. Choose the SmartSet options based on server type and configuration. H4725A and H4726A are not required for the servers. Order SmartSet Installation to receive Onsite Installation of one rack solution. Determine if the customer needs services to support their complex, mission-critical applications. If so, determine if any of the SmartSet Add-on services are beneficial to the customer.
3. Determine if the customer wants additional custom integration and installation services.
4. For the deployment of a highly complex, mission-critical solution, Project Management Service (H6371AA) is highly recommended.
5. Contact your GDS Business Development Regional Representatives for assistance with configuration and quotation.



## HP 9000 Enterprise Server System Support Options

Product #	Description	H4400A	H4402A	H4401A	H4403A	H4404A	H4405A	H4385A	H4375A	H4413A
CATS Band#		H4400Y	H4402Y	H4401Y	H4403Y	H4404Y	H4405Y	H4386A		H4414A
A3261A #611	180 MHz PA RISC 8000 CPU with 2 MB cache									
A3576A #607	D320 Uniprocessor									
A3639B #615	N4000 Enterprise Server									
A3669A #611	200 MHz PA-RISC 8200 CPU With 4MB cache									
A4837A #610	K580 Server with 256MB HE ECC Memory Solution									
A4869B #609	K380 Server Solution									
A4870A #610	K580 Server for Distributors Solution									
A4871B #609	K380 Distributor Server Solution									
A4872A #611	240MHz PA-RISC 8200 CPU with 4 MB Cache									
A4903A #675	D390/1 way Server Solution									
A4904A #676	D390/2 way Server Solution									
A5178A #604	R390/1-way Enterprise Server									
A5179A #604	R390/2-way Enterprise Server									
A5191B #613	L2000 Server									
A5489A #648	V2500 Service Support Processor With SW									
A5491A #622	V2500 Single CPU Processor Board									
A5492A #623	V2500 Dual CPU Processor Board									
A5500A #616	440 MHz PA-RISC 8500 CPU									
A5521A #614	360 MHz Processor for L-Class									
A5522A #614	440 MHz Processor for L-Class									
A5547A #693	Central Web Console Kit – US/Canada									
A5550A #693	Central Web Console Kit – International									
A5570B #602	A500 Enterprise Server									
A5576A #612	L1000 Server									
A5799A #674	Central Web Console Terminal Server									
A5824A #620	V2600 Base System Configuration									
A5825A #622	V2600 360 MHz PA8500 Single CPU Board									
A5826A	V2600 440 MHz PA8500 Dual CPU									

Product #	Description	H4400A	H4402A	H4401A	H4403A	H4404A	H4405A	H4385A	H4375A	H4413A
CATS Band#		H4400Y	H4402Y	H4401Y	H4403Y	H4404Y	H4405Y	H4386A		H4414A
#623	Board									
A5866A	N-Class 550MHz PA8600 CPU									
#616										
A6109B	A400 Enterprise Server									
#601										
A6144A	L3000 Enterprise Server									
#613										
A6146A	L3000 550MHz PA8500 CPU									
#614										
A6153A	HW Support - rx4610 Server w/2									
#6AA	CPUs									
A6165A	HW Support - Addt'l CPU for									
#6AB	rx4610									
A6153A	HP-UX Support - rx4610 Server w/2									
#6AC	CPUs									
A6165A	SW Support - Addt'l CPU for rx4610									
#6AD										
A6755A	HW Support - rx9610 Server									
#6AE										
A6756A	HW Support - rx9610 Cell Board									
#6AF										
A6756A	HP-UX Support - rx9610 Cell Board									
#6AH										

H4400A: License to Use SW - Year 1; Next Day HW Support - Year  
H4402A: License to Use SW - Year 1; Same Day HW Support - Year 1  
H4401A: Phone-in SW Assist and License to Use SW - Year 1; Next Day HW Support - Year 1  
H4403A: Phone-in SW Assist and License to Use SW - Year 1; Same Day HW Support - Year 1  
H4725A: Installation/Network ConfigurationOS5: License to Use SW - Year 1; 24 x 7 HW Support - Year 1  
H4405A: Phone-in SW Assist and License to Use SW - Year 1; 24 x 7 HW Support - Year 1  
H4385A: Critical Systems Support  
H4386A: Critical Systems Support with implementation assistance  
H4375A: Personalized System Support  
H4726A: Network Configuration  
H4413A: Call-To-Repair Sys Supprt, 24x7 HW Support, SW License to Use - Year 1  
H4414A: Call-To-Repair Sys Supprt, 24x7 HW Support, SW License to Use and Phone-in assistance - 1 Year  
NOTE: Prices reflected in annual terms. Please see Corporate Price List for additional products' support prices.

**New System Support Options as of June 1<sup>st</sup>, 2001**  
(for rx4610 and rx9610 ONLY)

Product #	CATS band	Description	H4412A	H4415A	H4416A
			H4412Y	H4415Y	H4416Y
A6153A/A6447A	6AC	RX4610 Server			
A6168A/A6448A	6AD	Addt'l rx4610 CPU			
A6756A/A6758A	6AH	rx9610 Cell Board			

H4412A/Y: SW License to Use - 1 year or 3 year  
H4415A/Y: SW License to Use and 8x5 Phone-in assistance - 1 year or 3 Year  
H4416A/Y: SW License to Use and 24x7 Phone-in assistance - 1 year or 3 Yea

## Upgrades System Support Options

Product #	Description	H4400A	H4402A	H4401A	H4403A	H4404A	H4405A	H4385A	H4375A	H4725A
CATS Band#		H4400Y	H4402Y	H4401Y	H4403Y	H4404Y	H4405Y	H4386A		
A3383A #686	Expansion Upgrade from D2xx to D3xx									
A4907A #687	Dx90/1 Processor Upgrade									
A4908A #688	Dx90/2 Processor Upgrade									
A5196A #604	R-Class R390/1 way CPU Board									
A5197A #604	R-Class R390/2 way CPU Board									
A5502A #624	V2500 Single to Dual CPU Board Upgrade									
A5848A #624	V2600 Single to Dual CPU Board Upgrade									

H4400A: License to Use SW - Year 1; Next Day HW Support - Year

H4402A: License to Use SW - Year 1; Same Day HW Support - Year 1

H4401A: Phone-in SW Assist and License to Use SW - Year 1; Next Day HW Support - Year 1

H4403A: Phone-in SW Assist and License to Use SW - Year 1; Same Day HW Support - Year 1

H4725A: Installation/Network ConfigurationDS5: License to Use SW - Year 1; 24 x 7 HW Support - Year 1

H4405A: Phone-in SW Assist and License to Use SW - Year 1; 24 x 7 HW Support - Year 1

H4385A: Critical Systems Support

H4386A: Critical Systems Support with implementation assistance

H4375A: Personalized System Support

H4726A: Network Configuration

NOTE: Prices reflected in annual terms. Please see Corporate Price List for additional products' support prices.

## Mass Storage and Accessories System Support Options

Product #	Description	H4400A	H4402A	H4401A	H4403A	H4404A	H4405A	H4385A	H4375A	H4725A
CATS Band#		H4400Y	H4402Y	H4401Y	H4403Y	H4404Y	H4405Y	H4386A		H4726A
A3311A #801	High Availability Storage Sys. Dskside Enc.									
A3312A #801	High Availability Strge Sys. Fctry Rack Enc.									
A3312AZ #402	High Availability Factory Racked Storage HP DLT 7000 Library 1/8									
A1375A #401	HP SureStore Autoloader 818									
A5583A #416	HP SureStore E Tape Library 2/20 Rackmount Version									
A4680A #416	HP SureStore E Tape Library 2/20 LVDS Rackmount Version									
A5584A #416	HP SureStore E Tape Library 2/20 Desktop Version									
A4681A #416	HP SureStore E Tape Library 2/20 LVDS Desktop Version									
A5585A #417	HP SureStore E Tape Library 4/40 Rackmount									
A4682A #417	HP SureStore E Tape Library 4/40 LVDS Rackmount									
A5586A #417	HP SureStore E Tape Library 4/40 Deskside Version									



Product #	Description	H4400A	H4402A	H4401A	H4403A	H4404A	H4405A	H4385A	H4375A	H4725A
CATS Band#		H4400Y	H4402Y	H4401Y	H4403Y	H4404Y	H4405Y	H4386A		H4726A
A4683A #417	HP SureStore E Tape Library 4/40 LVDS Deskside Version									
A5587A #418	HP SureStore E Tape Library 6/60 Rackmount									
A4684A #418	HP SureStore E Tape Library 6/60 LVDS Rackmount									
A5588A #418	HP SureStore E Tape Library 6/60 Deskside Version									
A4685A #418	HP SureStore E Tape Library 6/60 LVDS Deskside Version									
A5589A #435	HP SureStore E DLT 8000 Tape Drive HVDS									
A4686A #435	HP SureStore E DLT 8000 Tape Drive LVDS									
A5590A #436	HP SureStore E Fibre Channel Interface HVDS									
A4687A #436	HP SureStore E Fibre Channel Interface LVDS									
A5616A #873	SureStore E Disk System HVD10 Field Rackable									
A5616AZ #873	SureStore E Disk System HVD10 Factory racked									
A5272A #801	SureStore E Disk System SC10 Field rackable									
A5272AZ #801	Sure Store E Disk System SC10 Factory Racked									
A5236A #801	SureStore E Disk System FC10 Field Rackable									
A5236AZ #801	Fibre Channel High Availability Storage System FC10 Factory Racked									

H4400A: License to Use SW - Year 1; Next Day HW Support - Year 1  
H4402A: License to Use SW - Year 1; Same Day HW Support - Year 1  
H4401A: Phone-in SW Assist and License to Use SW - Year 1; Next Day HW Support - Year 1  
H4403A: Phone-in SW Assist and License to Use SW - Year 1; Same Day HW Support - Year 1  
H4725A: Installation/Network Configuration  
H4404A: License to Use SW - Year 1; 24 x 7 HW Support - Year 1  
H4405A: Phone-in SW Assist and License to Use SW - Year 1; 24 x 7 HW Support- Year 1  
H4385A: Critical Systems Support  
H4386A: Critical Systems Support with implementation assistance  
H4375A: Personalized System Support  
H4726A: Network Configuration

## H4725A & H4726A—Installation Support Products

Pricing Band	Description	H4725A	H4726A
500	A180 Server		
501	A400		
502	A500		
503	R-Class Server		
504	D-Class Server		
505	K-Class Server		
506	L1000		
507	L2000		
509	L-Class CPU		
510	N-Class Server		
511	T-Class Server		



Pricing Band	Description	H4725A	H4726A
512	V-Class Server		
513	700 Series Terminal		
514	System Console		
515	Terminals		
516	Internal Disk Drives		
517	Internal Tape Drives		
518	ATM HP-HSC Adapter HW		
519	Hyperfabric Cards		
520	PCI MUX Cards		
521	WAN High Speed PSI Cards		
522	Gigabit Ethernet		
523	FDDI Adapter		
524	WAN PSI Card		
525	Fast Ethernet Cards		
526	V-Class CPU		
527	Host Adapter Card		
528	RS 232 Component		
529	WB Back Plane		
530	WB Memory		
531	K Memory		
532	Rack Power Distribution Strip		
533	E-Class Upgrade		
534	Floppy Drive		
535	D-Class Memory		
536	D-Class CPU		
537	Server CD-ROM		
538	V-Class Memory		
539	Field Integrated Rack		
540	R-Class CPU		
541	L-Class Rack Kit - Static		
542	L-Class Rack Kit - Slider		
543	R-Class Memory		
544	Token Ring HW		
545	PCI Adapter Card		
546	Token Ring LAN Adapter		
547	PCI 2 Port Adapter		
548	HP FDDI/9000 for Servers		
549	ICOD CPU - L-Class		
550	ICOD CPU - N-Class		
551	ICOD CPU - V-Class		
552	HP9000 Add-On Product		
553	Workstation Product		
554	L-Class Memory		
555	A-Class CPU		
556	A-Class Memory		
560	Disk Module Upgrade Kits		
561	SMART Storage - Disks		
562	Add-On Storage Component		
563	Disk Array		
564	SureStore E Disk System		
565	Itanium Server		
573	Battery Pack and PDU		
574	Special Rack Kit		
575	Workstation		
576	Workstation Memory		
577	Workstation Floppy Drive		
578	Workstation DAT		
579	Workstation CD-ROM		

Pricing Band	Description	H4725A	H4726A
580	Workstation Disk Drive		
581	Workstation Graphics Card		
582	Workstation I/O Card		
583	Workstation Monitor		
584	Workstation Upgrade CPU		
585	Workstation Dial Box		
586	Superdome cell board		
587	Superdome memory		
588	Superdome PCI card cage		
589	Superdome 2 <sup>nd</sup> PDCA		
590	SureStore E Autoloader 818		
591	DLT Libraries - 1 drive, 8 cartridge		
592	Optical Drive		
593	SMART Storage - Tape		
594	SMART Storage - Enclosure		
595	Optical Libraries		
596	DLT Drive		
597	DAT Drive		
598	Rack Kit - Tape Products		

### Additional Hardware Installation Services

Description	Product #	Opt. #	WW Ref. Price
• Connecting customer-provided boot device	H9907A		
HP XP or EMC Symmetrix system		001	
Other HP disk systems		002	

### System and Network Management System Support Options

*Refer to Chapter 12 for software support information*

## Development Tools and Distributed Computing System Support Options

### Programming Languages

Product #	Description	OS0	OS1	OS2	OS3	OS5	OS6
B1592AA	Praesidium App Security Server CD Media						
B2404A	C++ License-to-use (9.0)						
B2405A	C++ Compiler (9.0) documentation						
B2409B	HP-UX FORTRAN 9000 Compiler (9.0)						
B2412A	HP C/ANSI C Compiler (9.0)						
B2415A	Pascal/HP-UX Compiler (9.0) LTU						
B2433AA	Micro Focus COBOL/UX Dev m/m (9.0/10.0)						
B2433AB	Micro Focus COBOL/UX Developer's Pkg.						
B2434AA	Micro Focus COBOL/UX Cmp. media/man.						
B2434AB	Micro Focus COBOL/UX Cmp. LTU (9.0/10.0)						
B2435AA	Micro Focus COBOL/UX RT m/m (9.0/10.0)						
B2435AB	Micro Focus COBOL/UX Run-time LTU						
B3453AA	Micro Focus Toolbox media/manuals (9.0/10.0)						
B3453AB	Micro Focus Toolbox concurrent user license						
B3455AA	Micro Focus Dialog System med/man (9.0/10.0)						
B3455AB	Micro Focus Dialog Sys. concurrent user lic.						
B3472AA	Series 800 HP Programmer's Toolset media						
B3473AB	Series 800 HP Programmer's Toolset LTU						
B3476AA	HP Programmer's Toolset manuals/S800						
B3858AA	Nihongo HP Micro Focus COBOL/UX Devel. Media/Man						
B3859AB	Nihongo HP Micro Focus COBOL/UX Devel. Media & Man						
B3860AA	Nihongo HP Micro Focus COBOL/UX Compiler Media						
B3861AB	Nihongo HP Micro Focus COBOL/UX Compiler Media/Man						
B3862AA	Nihongo HP Micro Focus COBOL/UX Run-time Media						
B3863AB	Nihongo HP Micro Focus COBOL/UX Run Time LTU						
B3871AA	Korean HP Micro Focus COBOL/UX Devel. Med/Man						
B3872AB	Korean HP Micro Focus COBOL/UX Developer LTU						
B3873AA	Korean HP Micro Focus COBOL/UX Compiler Med						
B3874AB	Korean HP Micro Focus COBOL/UX Compiler LTU						
B3875AA	Korean HP Micro Focus COBOL/UX Run Time Med/Man						
B3876AB	Korean HP Micro Focus COBOL/UX Run Time LTU						
B3900AA	HP C/ANSI C Developer's Bundle - Media/Manuals (10.0)						
B3901AA	HP C/ANSI C Developer's Bundle LTU (10.0)						
B3904AA	HP-UX Pascal Compiler Med/Man (10.0)						
B3905AA	HP-UX Pascal Compiler LTU (10.0)						
B3908AA	HP-UX FORTRAN/9000 Med/Man (10.0)						
B3909AA	HP-UX FORTRAN/9000 LTU (10.0)						
B3912AA	C++ Compiler Media/Manuals (10.0)						
B3913AB	C++ Compiler License to Use (10.0)						
B4810AA	Praesidium Client License						
B5196AA	Praesidium Documentation (Manuals)						
B5198AA	Praesidium Application Server License						
B5404AA	Praesidium Security Service License						
B5405AA	Praesidium Security Client License						
B5406AA	Praesidium Security Service Media						
B5407AA	Praesidium Security Service Manuals						

OS0, OS1, OS5: LTU Updates; System Support 1st year

OS2, OS3, OS6: Phone-in Assist + LTU Updates; System Support 1st year

# Prices not available at time of publication.

## Information Management Software

Product #	Description	OS0	OS1	OS2	OS3	OS5	OS6
92568A	HP-UX Integ. Sockets Run-time LTU						
92732B	HP-UX Integ. Sockets LTU/1 workstation						
92733A	LTU:HP Integ. Sockets for AS/400						
92742B	Sun Integ Sockets - Media/manuals						
92743A	AS/400 Integ. Sockets - Media/manuals						
92753A	AS400 Integ. Sockets - Client LTU						
92768A	HP-UX Integ. Sockets - Devel. Product						
B1184B	UIM/X 2.6 End User Kit						
B1184BJ	UIM/X 2.6 End User Kit/Japanese						
B1191A	User Environment Devel. Kit/ HP-UX 8.0/9.0						
B1300B	HP Data management system server software						
B1301B	HP Data management system server software						
B1367B	HP Eloquence run-time environment for S/800						
B1368B	HP Eloquence dev. environment for Series 800						
B2470BA	Oadapter OpenODB developer's bundle						
B2695A	GFoX License						
B2698A	GFoX for Series 800 media						
B2962A	HP ALLBASE/4GL Developer version						
B2963A	HP ALLBASE/4GL Run-time						
B2964A	HP ALLBASE/SQL/4GL/Query bundle						
B3142A	HP ALLBASE/SQL Run-time for Series 800						
B3143A	HP ALLBASE/SQL RDBMS V.G.0 Development						
B3148A	HP ALLBASE/Query						
B3179BA	Oadapter OpenODB Evaluator's bundle						
B3394AA	HP-UX Developer's ToolKit LTU (10.0)						
B3395AA	HP-UX Developer's ToolKit Media/Manuals (10.0)						
B3480B	HP ALLBASE/Replicate for ALLBASE/SQL						
B3596CB	C SoftBench 4.0 Upgrade LTU						
B3597CB	C++ SoftBench Upgrade LTU						
B3767BB	Oadapter/OpenODB Concurrent License						
B3768BA	Oadapter/Open ODB Media/Manuals						
B3799AB	HP-RT Developer's kit license-to-use						
B3800AA	HP-RT Dev. kit media & manuals						
B3805AA	OTSrt Run-time license						
B3806AA	OTSrt Developer's kit media and manuals						
B3808AA	STREAMSrt License						
B3809AA	STREAMSrt media and manuals						
B3815AA	HP V.4 Curses Library media						
B3831AA	HP V.4 Curses Library license						
B4018CB	COBOL SoftBench w/compiler LTU						
B4024CB	COBOL/C SoftBench w/compiler LTU						
B4047AB	HP Distributed Smalltalk License						
B4049AA	HP Distributed Smalltalk Media and Manuals						
B4055AB	HP Distributed Smalltalk Runtime License						
B4085CB	C SoftBench 4.0 LTU						
B4087CB	C++ SoftBench LTU						
B4095CB	Encapsulator LTU						
B4541CB	COBOL/C++ SoftBench w/compiler LTU						
B4550BB	UIM/X 2.9 Series 800 License						
B4555AB	UIM/X CPT 2.0 S800 License						
B4556AA	UIM/X CPT 2.0 S800 Media and Manuals						
B4556AJ	License to Use System Support - 1st Year						
B4905BA	UIM/X 2.6 End User Kit (10.0)						
B4905BJ	UIM/X 2.6 End User Kit (10.0) Japanese						
B5050BB	SoftBench Configuration Management (SoftBench CM)						
B5066CB	C++ SoftBench Enterprise Series License to Use						



Product #	Description	OS0	OS1	OS2	OS3	OS5	OS6
B5069CB	C++ SoftBench Code Advisor License to Use						
B5071CA	SoftBench Products CD-ROM Media						
B5071CJ	SoftBench Products CD-ROM Media - Japanese						
B5072CA	SoftBench Manual English Product						
B5072CJ	SoftBench Manual Japanese Product						
B5073CA	SoftBench Software Developer's Kit CD-ROM Media						
B5075CB	C SoftBench Enterprise Series License to Use						
B5077CB	COBOL/C++ SoftBench Enterprise License to Use						
B5079CB	COBOL/C SoftBench Enterprise Series License to Use						
B5418AA	ALLBASE/SQL Run-Time License for Servers						
B5419AA	ALLBASE/SQL RT Media/Manuals for Servers						
B5420AA	ALLBASE/SQL Develop License for Servers						
B5421AA	ALLBASE/SQL Dev Media/Manual for Servers						
B5424AA	ALLBASE/Replicate License for Servers						
B5425AA	ALLBASE/Replicate Media/Manuals, Servers						
D2506A	HP Software vendor						

OS0, OS1, OS5: LTU Updates; System Support 1st year

OS2, OS3, OS6: Phone-in Assist + LTU Updates; System Support 1st year

# Prices not available at time of publication

## Distributed Computing Software

Product #	Description	OS0	OS1	OS2	OS3	OS5	OS6
B2470BA	Oadapter/OpenODB Dev Bundle License						
B2927A	HP DCE/9000 documentation						
B3179BA	Oadapter/OpenODB Evaluator's Bundle						
B3184S	HP Oadapter/OpenODB Course at HP						
B3185A	Oadapter/OpenODB Reference Manuals						
B3186A	Oadapter/OpenODB Custom Consulting						
B3187A	DCE Devel. Env. Cell Dir. Server (CDS)						
B3188A	DCE Developer's Env. Security Server						
B3189A	DCE/9000 Client for HP-UX 9.x license						
B3190A	DCD/9000 Core Services Media/Manuals-US/Canada						
B3191A	DCE/9000 Core Services Media/Manuals-Int'l						
B3192A	DCE/9000 Application Development Tools License						
B3193A	DCE App Dev. Tools media/manuals						
B3494AA	Encina/9000 Server						
B3495AA	Encina/9000 Monitor						
B3496AA	Encina/9000 Client						
B3498AA	Encina/9000 PPC Executive						
B3499AA	Encina/9000 Client and Server media						
B3501AA	Encina/9000 Monitor media						
B3502AA	Encina/9000 PPC Executive media						
B3519AA	HP DCE Qk. Start Bndl lic.:media/man.						
B3767BB	Oadapter/OpenODB Concurrent User License						
B3768BA	Oadapter/OpenODB Media and Manuals						
B3785AA	HP DCE NFS-DFS Secure Gateway						
B3786AA	HP DCE/9000 Distributed File Service						
B3787AA	Encina/9000 PPC Gateway						
B3788AA	Encina/9000 RQS						
B3789AA	Encina/9000 Documentation						
B3790AA	Encina/9000 PPC Gateway media						
B3791AA	Encina/9000 RQS media						
B3793AA	CICS Client License						
B3794AA	CICS Server License						
B3795AA	CICS Media/Manuals						
B3796AA	CICS Bundle Media/Manuals						

Product #	Description	OS0	OS1	OS2	OS3	OS5	OS6
B3797AA	Encina/9000 SFS						
B3798AA	Encina/9000 SFS media						
B3818AA	CICS Bundle License to Use						
B3864AA	DCD/9000 DES software-US/Canada						
B3893AA	HP OODCE/9000 LTU						
B3923AA	CICS Media/Manuals Non-US						
B3956AA	DCE/9000 Quick Start Bundle Media/Manuals						
B4805AA	ORB Plus for HP 9000 Runtime License						
B4806AA	ORB Plus for HP 9000 Dev Toolkit License						
B4807AA	ORB Plus for Solaris 2.4 Runtime License						
B4808AA	ORB Plus for NT 3.51 Dev Toolkit License						
B4814AA	OB Plus for Solaris Dev Toolkit License						
B4815AA	ORB Plus for Solaris Dev Toolkit Media						
B4816AA	ORB Plus for Solaris 2.4 Runtime Media						
B4817AA	ORB Plus for NT 3.51 Dev Toolkit Media						
B4818AA	ORB Plus for NT 3.51 Runtime Media						
B5162AA	DCE/9000 Executive Client Media for Srvr						
B5162AA	DCE/9000 Client Media Only						
B5190AA	License to Use System Support - 1st Yr						
B5191AA	ORB Plus for HP 9000 Dev ToolKit Media						
B5192AA	License to Use System Support -1st Yr						
B5381AA	DE Lightweight Client Gateway License						
B5382AA	License to Use System Support - 1st Year						
B5383AA	DE Lightweight Client Gateway & PC Mnls						
B5384AA	DE Lightweight Client PC License & Media						
B5385AA	License to Use System Support -1 st Year						
B5441AA	Depot/J 100 User Runtime License						
B5442AA	Depot/J Core Developer License for HP-UX						
B5443AA	Depot/J Media and Manuals for HP-UX						
B5444AA	Depot/J Core Developer License, Solaris						
B5445AA	Depot/J Media and Manuals for Solaris						
J2393AA	DCE GDS Server LTU						

OS0, OS1, OS5: LTU Updates; System Support 1st year

OS2, OS3, OS6: Phone-in Assist + LTU Updates; System Support 1st year

# Prices not available at time of publication.

## HP-UX, Desktop Utilities, and High Availability System Support Options

Product #	Description	OS0	OS1	OS2	OS3	OS5'	OS6'
92668A	SwitchOver/UX						
B1520AA	Asian System Environment LTU & Media/HP-UX 10.0						
B2203A	Japanese Starbase Simplex font						
B2206A	Korean NLIO 8.2 (8.0/9.0)						
B2207A	Korean Starbase Fonts License						
B2210A	Traditional Chinese NLIO 8.2						
B2211A	Traditional Chinese Starbase Fonts						
B2214A	Simplified Chinese NLIO 8.2 (8.0/9.0)						
B2227A	Japanese NLIO 8.2 (9.0)						
B2491A	MirrorDisk/UX						
B3108A	HP-UX 9.04 Operating System Media						
B3108C	Documentation w/CD-ROM software disk set						
B3108D	Minimal Documentation Set w/HP-UX 9.0 Core media						
B3108L	HP-UX 9.04 User License						
B3108M	Documentation for HP-UX 9.0x						
B3133A	Documentation for HP-UX 9.0x/Korean						
B3134A	Documentation for HP-UX 9.0x/Trad. Chinese						



Product #	Description	OS0	OS1	OS2	OS3	OS5 <sup>1</sup>	OS6 <sup>1</sup>
B3135A	Documentation for HP-UX 9.0x - Japanese						
B3136A	Documentation for HP-UX 9.0x/S. Chinese						
B3385A	HP MPower Server license for Series 800						
B3386A	HP MPower Server media and manuals						
B3387BB	HP MPower Client License						
B3457A	Series 800 Documentation for HP-UX 9.0x/part French						
B3458A	Series 800 Documentation for HP-UX 9.0x/part German						
B3897A	HP-UX User Level Upgrade						
B3919AA	HP-UX 10.0 User License						
B3919BA	HP-UX 10.x User License						
B3919CA	HP-UX Version 10.20 User License						
B3920AA	HP-UX 10.0 Server Operating System Media						
B3920BA	HP-UX version 10.x Server Operating System Media						
B3920CA	HP-UX Version 10.20 Server OS Media						
B3921AA	HP-UX Version 10.0 Doc./English						
B3921AD	HP-UX Version 10.0 Doc./German						
B3921AF	HP-UX 10.01 French Manuals						
B3921AJ	HP-UX Version 10.0 Doc./Japanese						
B3921AV	HP-UX 10.01 Korean Manuals						
B3921BA	HP-UX Version 10.x Doc./English						
B3921BD	HP-UX Version 10.x Doc./German						
B3921BF	HP-UX Version 10.x Doc./French						
B3921BJ	HP-UX Version 10.x Doc./Japanese						
B3921CA	HP-UX Version 10.20 Manuals						
B3921CD	HP-UX Version 10.20 Manuals - German						
B3921CF	HP-UX 10.20 Manuals - French						
B3921CJ	HP-UX Version 10.20 Manuals - Japanese						
B3928AA	HP OnLineJFS Media/HP 9000 Servers						
B3929AA	HP OnLineJFS LTU/HP 9000 Servers						
B3935AA	MC/ServiceGuard License/one system						
B3936AA	MC/ServiceGuard Media/Manuals						
B3936AJ	MC/ServiceGuard Japanese Manual						
B4253AA	LTU HP OpenView IT/Administration						
B4254AA	OpenView IT/Administration License						
B4255AA	HP (OpenView) IT/Administration License						
B4260AA	HP OV ITA for Workgroups License						
B4261AA	OV ITA/Workgroups Mgr (tier two systems)						
B4262AA	IT/Administration for Workgroups Media						
B4263AA	HP OV ITA/Workgroups Documentation Set						
B5121AA	MC/ServiceGuard Database Toolkit Media						
B5125AA	MC/ServiceGuard NFS Toolkit Media						
B5139AA	MC/ServiceGuard Database Toolkit License						
B5140AA	MC/ServiceGuard NFS Toolkit License						
B5158AA	MC/LockManager for HP-UX 10.x Media						
B5158AJ	MC/LockManager Japanese Manual						
B5161AA	MC/LockManager License for HP-UX 10.x						
B5162AA	DCE/9000 Executive Client Media for Svr						
B5174AA	ClusterView License						
B5175BA	ClusterView Workstation Media, HP-UX 10.x						
B5176BA	ClusterView Server Media, HP-UX 10.x						
B5448AA	HP-UX 10.20 Svr Application CD-ROM Media						

\* See Table below

# Prices not available at time of publication.



## Operating System User Level License System Support Options

					Options across top equivalent to options listed vertically below.			
For HP-UX 10.0, order with		For HP-UX 9.0x, order with		User Level	OS2/OS3/OS6		OS0/OS1/OS5	
Product Nos.	Opt #	Product Nos.	Opt #		Opt #	Price	Opt #	Price
B3919AA,	UA1	B3108L	UA1	2.00	OSQ		OSR	
B3897A,	AGL		UA3	8.00	OSA		OSB	
B3919BA,	AGM		UA5	16.00	OSC		OSD	
B1520AA,	AGN		UA7	32.00	OSE		OSF	
B3919CA	AGP		UA8	64.00	OSG		OSH	
B3919DA	AGS		UAT	unlimited	OSN		OSP	

OS0, OS1, OS5: LTU Updates; System Support 1st year

OS2, OS3, OS6: Phone-in Assist + LTU Updates; System Support 1st year

## Networking and Communications System Support Options

Product #	Description	OS0	OS1	OS2	OS3	OS4	OS5	OS6	OSZ
27269B	HP PC LAN Adapter NC/16 TP Plus 6-pack								
27285A	HP AdvanceStack Router 440								
27286A	HP AdvanceStack Router 445								
27288A	HP AdvanceStack Router 430								
27289B	HP AdvanceStack Router 240								
27361G	HP Interconnect Rtr Mgr/UX OV Bundle								
28673A	HP 10:10 LAN Bridge MB								
28674B	HP Remote Bridge RB								
28681A	HP 10:10 LAN Bridge LB								
28682A	HP Fiber-Optic Hub Plus								
28692A	HP ThinLAN Hub Plus								
32032A	HP OpenView X.400 Manager/S800								
32070A	OSI Transport Services:Series 800								
36960A	X.25/9000 Link for the Series 800								
40220A	Cable between 2335A & ATP/DTC prntr ports								
40261A	Add'l 4 modem ports HP2334A Plus								
A3402A	EISA 100VG AnyLAN Hardware Adapter								
A3406A	Fibre Channel Adapter, Model 266								
A3502A	HP Enterprise Swith, Mod 266 Fibre Ch								
A3552A	Enterprise Switch 4 Port Channel Module								
A3502AZ	HP Enterprise Switch Racked, Mod 266 FC								
B2020BZ	OpenMail Client License for 50 Users								
B2016BZ	OpenMail Mailbox License for 50 Users								
B1011C	HP LAN Manager/X:S700/800								
B1029B	NS/9000 for the Series 800								
B1029CA	VT3K for HP 9000 Servers System License								
B1033A	HP FTAM/9000 for the Series 800								
B2016BZ	OpenMail Mailbox, B series License								
B5410AA	VirtualVault International Workstation Media								
B5411AA	VirtualVault US/Canada Server Media								
B5412AA	VirtualVault International Server Media								
B5413AA	VirtualVault Transaction Server Manuals								
B4785A	OpenMail Documentation								
B4786A	OpenMail Media								
B4787A	OpenMail for IBM AIX								
B4788A	OpenMail media for SCO UNIX								
B4789A	OpenMail for Sun/Solaris								
B5408AA	VirtualVault Server & Wkstn License								



Product #	Description	OS0	OS1	OS2	OS3	OS4	OS5	OS6	OSZ
B5409AA	License to Use SYstem SUpport - 1st Year								
B4790A	OpenMail Media for Windows/NT Sys								
J2146A	LAN/9000 Link--Mdl 8X7/E/F/G/H/lxx								
J2157A	FDDI/9000 Adp:8X7/E/F/G/H/lxx/								
J2165A	EISA Token Ring Link								
J2166A	Token Ring:Mdl 8X7/E/F/G/H/lxx								
J2220A	SNAplusLink								
J2221A	SNAplus3270								
J2222A	SNAplusRJE								
J2223A	SNAplusAPI								
J2224A	SNAplus3179G								
J2237A	STREAMS/UX for the Series 800								
J2256AA	HP LAN Manager v. 2.2 for UNIX								
J2399AA	VT3K for HP 9000 Servers Media/Manuals								
J2405A	HP PC LAN Adapter NC/16TP								
J2406A	HP PC LAN Adapter NC/16TP - 6 pack								
J2410A	HP AdvanceStack 100VG Hub-15								
J2414A	HP AdvanceStack 100VG SNMP/Bridge mod.								
J2430A	HP AdvanceStack Router 650								
J2455A	ISDN BRI Link: Series 800 - S/W, media								
J2456A	ISDN-TCP/IP Router software								
J2458A	ISDN BRI Link for the Series 800 - H/W								
J2463B	Cryptographic Security Module								
J2540B	HP AdvanceStack Router 230								
J2543A	HP AdvanceStack Router 245								
J2562A	HP OV Traffic Monitor/HP-UX								
J2600A	HP AdvanceStack 10Base-T Hub-12								
J2601B	HP AdvanceStack 10Base-T Hub-24								
J2602B	HP AdvanceStack 10Base-T Hub-48								
J2603B	HP AdvStack Ethernet SNMP/Bridge mod.								
J2628A	HP AdvanceStack Router 210								
J2629A	HP AdvStack Rtr 210/SNMP Mgmt Mod Bdl								
J2636AA	TN3270 System License								
J2638AA	EISA Token Ring Link Media/Manuals								
J2646AA	TN3270 Media/Manuals								
J2656AA	TN3270 Manuals								
J2669AA	LAN Manager v. 2.2 Media/Manuals								
J2670AA	Netware w/SPX II LTU								
J2671AA	Netware w/SPX II Media/Manuals								
J2674AA	Netscape Communications Server License								
J2675AA	Netscape Communications Srvr Med/Man								
J2676AA	Netscape Commerce Server License								
J2677AA	Netscape Commerce Server Media/Manuals								
J2678AA	Netscape Proxy Server License HP Servers								
J2679AA	Netscape Proxy Server Media/Manuals								
J2689AA	Eagle Firewall Media/Manuals-HP Servers								
J2698AA	Netscape Commerce Server 1.12 Med/Man								
J2699AA	Netscape Proxy Server 1.12 Media/Manuals								
J2702AA	Raptor Eagle System 3.0 CD-ROM Cert/Man								
J2703AA	Raptor Eagle System 3.0 Media/Manuals								
J2704AA	OpenMarket Web Server V1 License/HP Srvr								
J2705AA	OpenMarket Web Server 1.1 Med/Man /Srvr								
J2706AA	OpenMarket Secure Web Server V1 LTU/Srvr								
J2707AA	OpenMarket Secure Web Srvr 1.1 (INTL) M/M								
J2708AA	OpenMarket Secure Web Srvr 1.1 (US/CAN)								
J2746AA	Raptor Eagle Remote Unl. Node Lic./ HP Srvr								
J2747AA	Raptor Eagle Remote 200 node lic./HP srvr								
J2748AA	Raptor Eagle Remote 50 node lic./HP srvr								

Product #	Description	OS0	OS1	OS2	OS3	OS4	OS5	OS6	OSZ
J2749AA	Raptor Eagle Rmt. 50 to 500 upg lic./HP srvr								
J2750AA	Raptor Eagle Rmt 200-unl upg. lic./HP srvr								
J2751AA	Raptor Configuration sw license for HP wksta.								
J2752AA	Raptor Eagle Remote 200 node lic./HP wksta.								
J2753AA	Raptor Eagle Remote 50 node lic./HP wksta.								
J2754AA	Raptor Eagle Remote 50 to 200 lic. upg.								
J2755AA	Raptor Eagle Remote 200 to unl lic. upg.								
J2756AA	Raptor Eagle system (Intl) med/man-wksta.								
J2792A	High-Speed X.25 PSI card								
J2793A	X.25 High Performance Software								
J2803A	HP-HSC ATM Adapter for HP 9000 servers								
J2806AA	HP-HSC ATM Link Media/HP 9000 servers								
J2980A	HP AdvanceStack 10/100 LAN switch								
J2390AA	Fibre Channel Adapter Media and Manuals								
J2498A	ATM/155 Mbps HP-HSC (EISA) Adapter								
J1550BA	Nscp Enterprise 2.0 US/Can M/M 10.1 Srvr								
J1550CA	Nscp Enterprise 2.0 US/Can M/M 10.2 Srvr								
J1551AA	Netscape Proxy Server V2 Lic HP Servers								
J1552CA	Netscape Proxy Srvr 2.0 M/M 10.2 HP Srvr								
J1552BA	Netscape Proxy Srvr 2.0 M/M 10.1 HP Srvr								
J1553BA	Nscp Proxy 2.0 US/Can M/M 10.1 HP Srvr								
J1553CA	Nscp Proxy 2.0 US/Can M/M 10.2 HP Srvr								
J1545AA	Netscape FastTrack Srvr V2 Lic HP Srvrs								
J1546BA	Nscp FastTrack Srvr 2.0 M/M 10.1 HP Srvr								
J1546CA	Nscp FastTrack Srvr 2.0 M/M 10.2 HP Srvr								
J1547CA	Nscp FastTrack Srvr 2.0 US/Can M/M 10.12								
J1547BA	Nscp FastTrack Srvr 2.0 US/Can M/M 10.2 HP								
J1548AA	Netscape Enterprise Srvr V2 Lic HP Srvr								
J1549CA	Nscp Enterprise Srvr 2.0 M/M 10.2 Srvr								
J1549BA	Nscp Enterprise 2.0 M/M 10.1 HP Srvr								
J2694AA	EISA 100VG AnyLAN License for D Class								
J2695AA	EISA 100VG AnyLAN D Class Media/Manuals								
J2635AA	Fibre Channel Adapter License to Use								
J2689AA	Raptor Eagle Firewall Cert Mnls HP Srvr								
J2720AA	SNAPLUS2 Link Server License								
J2750AA	Raptor Eagle Remote V3 Srvr Upgd 200-Unl								
J2751AA	Raptor Eagle Configuration SW License								
J2721AA	SNAPLUS2 APPN End Node Server License								
J2702AA	Raptor Eagle V3.1 US/Can M/M 10.01 Srvr								
J2722AA	SNAPLUS2 3270/3179G Server License								
J2723AA	SNAPLUS2 RJE Server License								
J2794A	High Speed X.25 EISA Card for HP 9000								
J2724AA	SNAPLUS2 API Server License								
J2725AA	SNAPLUS2 Link Server Media								
J2715AA	Advanced Server/9000 for Servers License								
J2716AA	Advanced Server 9000 Server Media								
J2746AA	Raptor Eagle Remote V3 Unl Node Lic Srvr								
J2726AA	SNAPLUS2 APPN End Node Server Media								
J2727AA	SNAPLUS2 3270/3179G Server Media								
J2747AA	Raptor Eagle Remote V3 200 Node Lic Srvr								
J2728AA	SNAPLUS2 RJE Server Media								
J2748AA	Raptor Eagle Remote V3 50 Node Lic Srvr								
J2729AA	SNAPLUS2 API Server Media								
J2749AA	Raptor Eagle Remote V3 Srvr Upgrd 50-200N								
J2803B	ATM/155 Mbps HP-HSC Adapter								
J2804A	HP-PB ATM Adapter for HP 9000 Servers								
J2815A	Dual Port PSI Card for HP 9000 (EISA Bus)								
J2805AA	HP-PB ATM SW and Media for HP 9000 Srvr								



Product #	Description	OS0	OS1	OS2	OS3	OS4	OS5	OS6	OSZ
J2806BA	ATM/155 Mbps HP-HSC Adapter License								
Z7340A	HP ACC Card 8-Port, PCI								
Z7321A	Single and Dual 8 port RS-232 Panel for PCI								
Z7322A	Single and Dual 8 port V.35 Panel for PCI								
Z7323A	Single and Dual 8 port RS-449 Panel for PCI								
Z7324A	Single and Dual 8 port X.21 Panel for PCI								
Z7326A	V.35 8 port Octopus Cable								
Z7327A	RS-232 8 port Octopus Cable								
Z7325A	Cable for Dual Connectivity								
Z7476AA	HP ACC and X.25/9000 Software Bundle License								

OS0: LTU SW\*/Next Day HW

OS1: LTU SW\*/Same Day HW

OS2: Tel + LTU SW\*\*/Next Day HW

OS3: Tel + LTU SW\*\*/Same Day HW

OS4: Inst./Ntwk. Config. Cust. Inst. Prod.

OS5: LTU SW\*/24 x 7 HW

OS6: LTU SW\*\*/24 x 7 HW

OSZ: Network Configuration - HP Inst. Products

NOTE: Prices reflected in annual terms. Please see Corporate Price List for additional products' support prices.

# Prices not available at time of publication.

\*This software option for media updates/upgrades has been replaced by other product numbers for products from the Internet Software Business Unit (ISBU), e.g., under ISBU, the product division, the Internet Security Operation (ISCO) has its own media updates for Praesidium products. See Praesidium products in Chapter 7 for examples.

\*\*This has been restructured for products owned by the Internet Software Business Unit (ISBU) to contain just phone-in assistance and does not include software updates. Software updates for these products can continue to be obtained under different product numbers listed in this Ordering Guide, for example, see Chapter 7 for Praesidium products owned by the Internet Security Operation (ISCO), a product division of ISBU.

## HP 9000 Enterprise Server Integration Service

	Description	Product #	Opt #	Price
•	<b>Operating System Installation Services</b>	H9910A		
	Option 001: Install from an existing HP-UX image (Includes partitioning)		001	
	Option 002: Install from a new HP-UX media (Includes partitioning)		002	
•	<b>Extended Superdome Design and Integration Services (Integrate add'l servers purchased with Superdome)</b>	H9184B		
	Option 001: V and N-class initial server		001	
	Option 002: A, R and L-class initial server		002	
	Option 003: Additional server with identical setup		003	
	Option 004: XP 48 or 512		004	
	Option 005: Oracle DB		005	
	Option 006: MC/ServiceGuard		006	
	Option 007: OmniBack II		007	
•	<b>SmartSet – HW/SW Integration Services on HP-UX</b>	H3346A		
	Option 001: T-class and V-class initial server		001	
	Option 002: N-class and K-class initial server		002	
	Option 003: D, L, A, R-class initial server		003	
	Option 004: T-class and V-class repetitive server		004	
	Option 005: N-class and K-class repetitive server		005	
	Option 006: D, L, A, R-class repetitive server		006	
•	<b>SmartSet Add-on – XP256 Integration Service</b>	H3347A		
	Option 001: XP256 Enhanced Integration		001	
	Option 002: XP256 Custom Integration		002	

Description	Product #	Opt #	Price
Option 003: XP512 Enhanced Integration		003	
• <b>SmartSet Add-on – Relational Database SW Load</b>	H3348A		
• <b>SmartSet Add-on – MC Service Guard HA Installation Service</b>	H3350A		
Option 001: MC Service Guard basic installation		001	
Option 002: MC Service Guard installation with SAP		002	
Option 003: MC Service Guard HA Configuration Service		003	
• <b>SmartSet Add-on – SAP R/3 Initial Installation Service</b>	H4100A		
Option 001: One central instance of SAP system		001	
Option 002: Installation on additional server		002	
• <b>SmartSet Add-on – Omniback Installation Service</b>	H4101A		
• <b>Customer-specific Application/Customer Data Load</b>	H4108A		
Option 001: Customer Application Installation		001	
Option 002: Customer Data Load		002	
• <b>Solution Presentation and Repackaging Server</b>	H4109A		
• <b>Custom Integration</b>	H3370A		
Option 001: UNIX servers		001	
Option 003: UNIX workstations		003	
• <b>SmartSet Installation Service</b>	H5775A		
• <b>Custom Installation</b>	H6225A		
• <b>Project Management Service</b>	H6371AA		

The above integration services are performed at HP Integration Center(s) and then coordinated with the field for onsite delivery. Choose the SmartSet options based on server type and configuration. OS4 and OSZ are not required for the servers. Order SmartSet Installation to receive Onsite Installation of one rack. However, OS4 and/or OSZ may still need to be ordered for other hardware components like DAT, DLT's, CD-ROMs, or LAN link products.

## Naming Convention and Terminology

8 mm tape	Cartridge tape used for backing up data.
ANSI	American National Standards Institute: Principal group in the U.S. for defining standards.
ARPA	Advanced Research Projects Agency: The group within the U.S. Department of Defense that developed ARPANET, the first major packet-switched network.
ASCII	American Standard Code for Information Interchange: A seven-bit binary code to represent alphanumeric and graphical characters.
ATM	Asynchronous Transfer Mode (high-speed backbone networking technology)
AUI	Attachment Unit Interface: Connector used with thick Ethernet that often includes a drop cable.
Bandwidth	Indicates transmission capacity in Hertz.
Battery back-up	Holds information in RAM until power is restored or battery is drained.
BNC	A standardized connector used with Thinnet and coaxial cable.
BPI	Bits Per Inch: Used to define ANSI standard 1/2 - inch open reel tape formats.
Bridge	A device operating at the data link layer to connect local- or wide-area networks that use the same protocol.
BSD	Berkeley Software Distribution: A set of networking protocols.
Cache	Memory location set aside to store frequently accessed data or instructions for improved system performance.
CD-ROM	Compact Disk-Read Only Memory: A media used for software and information distribution.
Centronics	A type of parallel interface.
Coaxial cable	Data transmission medium with a single-wire conductor insulated from EMI/RFI (Electromagnetic Interference/Radio Frequency Interference).
CPL	Hewlett-Packard's Corporate Price List.
CPU	Central Processing Unit: A computer's primary processor chip.
DAT	Digital Audio Tape: Used primarily today for storing computer data.
Data Compression	A technique used in hardware or software to increase the amount of data stored onto media. A typical compression ratio is between 2 and 3.1. This will vary depending on the characteristics of the data.
DB-25	A 25-pin connector typically used for an RS-232 serial connection.
DC	Data Compression.
DDS	Digital Data Storage: An industry-standard format for recording computer data to a Digital Audio Tape.
Disk Array	A disk drive product that is typically used for high availability. It uses several mechanisms with a single or redundant controllers. 20%-30% of the total disk space is used for parity information. Data can still be accessed in the case of a single disk module failure. Can also be used in non-high availability, or independent mode, to support very large disk configurations.
Disk Mirroring	A high availability method in which a back-up data storage device maintains data identical to that on the primary device, and can still be accessed if the primary device fails.
DTC	Data Communication and Terminal Controller: Connected to a system via a network, it controls serial terminals, printers and modems.
ECC	Error Checking and Correcting: Typically used in reference to RAM technology.
EIA Cabinet	Electronic Industries Association Cabinet: An industry-standard cabinet for systems and peripherals, divided into EIA units that are 44.5 mm/1.75" high.
EISA	Extended Industry-Standard Architecture
Factory integrated	Products pre-assembled in the cabinet at HP and shipped to the customer as a complete unit.
FD SCSI-2	Fast/Differential implementation of SCSI-2, 10MB/sec (used only on older workstations), and up to 7 devices.
FDDI	Fiber-Optic Data Distribution Interface: A 100 MB/sec data transfer interface for fiber optic cable.
FEP	A type of backbone for ThickLAN AUI cables.
Fiber-optic cable	Glass or plastic fibers over which modulated light pulses from laser or LED (Light Emitting Diode) can transmit data. It is not subject to interference of electronic eavesdropping.
FTP	File Transfer Protocol: A TCP/IP application level protocol governing file transfer.
FWD SCSI-2	Fast/Wide/Differential SCSI-2: An implementation of SCSI-2 rated at 20MB/sec and up to 15 devices.
Headless system	A system without a monitor.
High Availability	General term used for software and hardware products that increase system up-time.
HP-FL	HP Proprietary Fiber Link interface used for disk drives, supports up to 500 Meters in length and 5MB/Sec.
HP-PB	HP Proprietary Precision Bus used on E, G, H, I, K-Class and T500 systems.
HP-HSC	HP High-Speed System Connect channel used on HP 9000 D-Class and K-Class systems.
HP-IB	HP Parallel Interface Bus used on older HP systems and workstations, 1.5MB/sec.
HP-PA	HP Precision Architecture: HP's RISC implementation.
Hub	An active or passive device that generally functions as the center of a star-topology network.
IEEE	Institute of Electrical and Electronics Engineers. A professional organization within the ISO that assists with the creation of networking standards.

Instant Ignition	An HP product option for software pre-loading and configuring with a new system order.
IP	Internet Protocol: TCP/IP protocol governing packet forwarding.
ISO	International Standards Organization: An international organization that creates networking standards including the OSI (Open Systems Interconnections) model.
KB	KiloByte, one thousand (1024) bytes of data.
kVA	One thousand volt-amps: Used to determine product power rating for UPS sizing.
LAN	Local Area Network: A network of limited size, usually within a building or complex of buildings.
LED	Light Emitting Diode.
MAU	Multi-Station Access Unit: A transceiver for LAN connections.
MB	MegaByte, one million bytes of data.
MHz	MegaHertz, one million cycles per second.
Mini - tower	A deskside versatile chassis used for external mass storage devices.
Modem	Modulator/Demodulator: A device that converts digital and analog signals for transmission over telephone lines.
Multifunction drive	Optical disk drive that can operate in both read/write and Write Once Read Many (WORM) modes.
Multiprocessor	A computer with more than one Central Processing Unit (CPU).
RAID	Redundant Array of Independent Disks: A term used to define the various modes in which a disk can operate.
MUX	Multiplexer: Used to connect serial devices such as terminals, modems and printers.
Network	A collection of devices linked in a computing environment to share information and resources.
NFS	Network File System: A protocol which allows remote file access across a network.
OLTP	On-Line Transaction Processing of data, as opposed to batch processing of data.
OpenView	A suite of system and network management products developed and offered by HP.
Optical Jukebox	A mass storage peripheral that stores and automatically loads multiple rewritable optical disk cartridges.
Parallel	A type of interface that uses multiple (> 2) lines to carry data (i.e., SCSI, Centronics, HP-IB)
Parity disk	A disk module used in a disk array for high-availability RAID configurations.
Personality card	A built-in interface card used on the G-, H-, and I-class systems—also known as a multifunction I/O card.
Print spooler	An application that manages print requests so that additional requests can be placed in a queue while the initial print request is being processed.
QIC	Quarter-Inch Cartridge Tape.
RAM	Random Access Memory: Memory in which data is temporarily stored for processing.
RJ-45	A type of 8-wire connector used for serial connections.
Router	A device that connects networks and supports the required protocols for packet filtering.
RS-232C, RS-422, RS-423	Serial interfaces typically used for terminals, modems, and printers.
SCSI-2	Small Computer System Interface, Revision 2: An industry-standard interface used primarily for mass storage (Single-ended, Fast/Wide/Differential).
SE SCSI-2	A single-ended implementation of SCSI-2 rated at 5MB/sec, and supports up to 7 devices.
SIMM	Single, In-Line Memory Module.
SNA	Systems Network Architecture: Network architecture developed by IBM which defines the specific mechanism for interconnection of components in an IBM environment.
SPU	System Processor Unit.
SSP	Structured Solution Product bundles: A top level product number identifying a system bundle with a series of factory integrated components, identified by product or option number. SSPs are typically the first product number on a system ordering menu.
TCP/IP	Transmission Control Protocol/Internet Protocol: A protocol suite for internetworking which ensures that data packets reach their destination in the sequence in which they were transmitted.
Telnet	The standard Internet protocol for terminal emulation.
Token Ring	A 4 MB/sec or 16 MB/sec network using a ring topology and a token passing access method.
Twisted-pair cable	A wiring scheme with one or more pairs of copper strands. The strands are twisted to improve protection against electromagnetic and radio frequency interference, and susceptibility.
UPS	Uninterruptible Power Supply: A battery backup and power conversion system used to keep a system running in the event of a short-term power outage.
WAN	Wide Area Network: A network that spans large geographic areas such as cities, states, or countries.
WORM	Write Once Read Many: Optical disk to which data may be written once and not altered, but from which data can be retrieved as often as necessary.
X-model	A network-based display device that uses the X protocol over LAN to communicate with the host.
X-terminal	The low-end intermediate performing X-model targeted at commercial environments.
X-station	The high-end performing X-model targeted at technical environments.
X.25	An international networking standard that defines the packet format for data transfers.
X.400	The standard for electronic mail transfer in multivendor environments.

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