

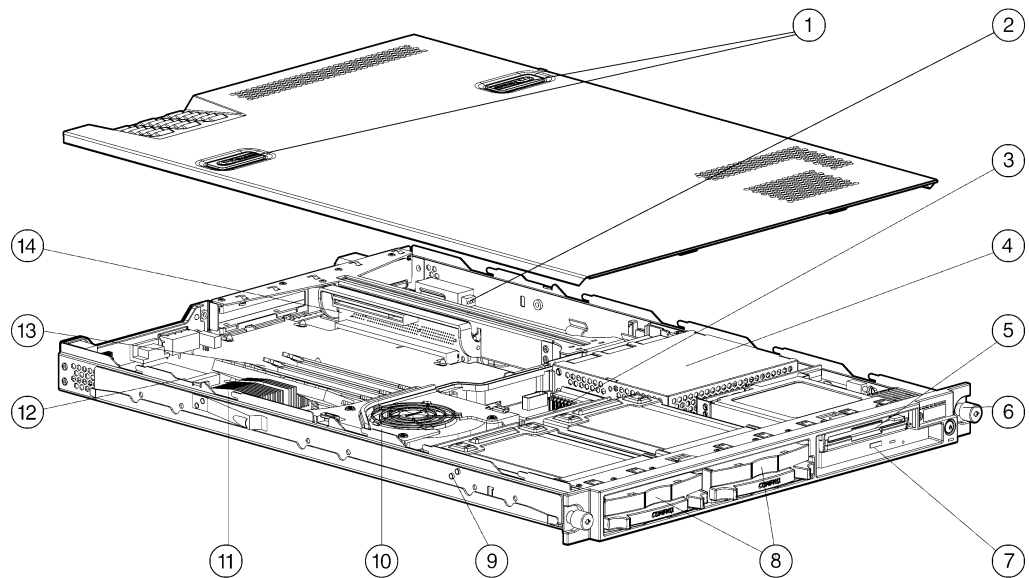
Overview

What's New

- Intel Pentium® III 933 MHz or 866 MHz Processor (dual capability)

At A Glance

- 1U Rack form factor (1.75")
- Intel Pentium III 933 MHz, 866 MHz or 800 MHz Processor (dual capability)
- Intel Pentium III 550 MHz Processor (single capability)
- ServerWorks LE 3.0 Chipset with 133-MHz Front Side Bus (933-MHz, 866-MHz, 800-MHz models) or 100-MHz Front Side Bus (550-MHz model)
- Remote Insight Lights-Out Edition ships standard with 933-MHz, 866-MHz, and 800-MHz RILO Models (available in EMEA only).
- PC133-MHz Registered ECC SDRAM memory
- Integrated Smart Array Controller
- Two full length expansion PCI slots: One 64-bit/33-MHz and one 32-bit/33-MHz
- 190-Watt Power Supply
- 256-KB level 2 ECC cache
- 128-MB PC133-MHz Registered ECC SDRAM memory, expandable to 4 GB
- Two Compaq NC3163 Fast Ethernet NIC Embedded 10/100 WOL (Wake On LAN)
- Wide Ultra2/Ultra3 SCSI Drive Cage standard supports up to two 1" Wide Ultra2/Ultra3 hot plug hard drives
- Internal hot plug capacity up to 72.8 GB (2 x 36.4 GB)
- Exceptional serviceability with optional sliding rails, cable management and in-rack, toolless service ability access
- Dual Peer PCI Bus Architecture for concurrent memory and processor access from PCI buses
- Integrated Remote Console (IRC), Automatic Server Recovery-2 (ASR-2), Compaq Insight Manager and *SmartStart™*
- Protected by Compaq Services, including a three-year, next business day on-site limited global warranty and extended Pre-Failure Warranty which covers processors, memory, and hard drives — Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.



1. Thumb Tabs
2. 64-Bit/33MHz PCI Slot (not shown)
3. SCSI Backplane
4. Power Supply
5. 1.44-MB Floppy Drive
6. LED Indicators
7. Low Profile, High Speed IDE CD-ROM Drive
8. Wide Ultra2/Ultra3 Hot Plug Drive Bays (2x1")
9. Fixed Rails
10. Fan
11. Processor Slot 1 (populated)
12. Processor Slot 2 (unpopulated)
13. DIMM Memory Slots (4 total)
14. 32-Bit/33MHz PCI Slot

Standard Features

Processor <i>One of the following</i>	Intel Pentium III processor 933 MHz	
	Intel Pentium III processor 866 MHz	
	Intel Pentium III processor 800 MHz	
	Intel Pentium III processor 550 MHz	
Upgradability	Upgradable to dual processing <i>Note: Dual processing only available with the 933 MHz, 866 MHz or 800 MHz processors.</i>	
Memory	Standard	128 MB (PC133MHz Registered ECC SDRAM memory) <i>Note: PC133-MHz Memory will run at 100 MHz in 550 MHz model.</i>
	Maximum	4 GB
Network Controller	Two Compaq NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)	
Expansion Slots	I/O (Total)	2
	64-bit, PCI/33 MHz	1
	32-bit, PCI/33 MHz	1
Manageability	Remote Insight – Lights Out Edition <i>Note: This ships standard with the 933 MHz, 866 MHz, and 800 MHz RILO models only – available in EMEA only.</i>	
Storage Controller	Integrated Smart Array Controller <i>Note: The Integrated Smart Array Controller is embedded on the system board.</i>	
Storage	Diskette Drives	1.44 MB
	CD-ROM	High Speed IDE CD-ROM Drive (Low-profile)
	Hard Drives	None
	Maximum Internal Storage	72.8 GB (internal drive cage) (2 x 36.4 GB 1" drives)
Interfaces	Serial	1
	Pointing Device (Mouse)	1
	Graphics	1
	Hot Plug Keyboard	1
	External SCSI (for tape only)	1
	Network RJ-45	2
Graphics	Integrated ATI RAGE IIC Video Controller with 4-MB Video Memory	
Form Factor	Rack (1U), (1.75-in/4.45 cm)	
Compaq Software	Compaq <i>Insight Manager</i> [™]	The comprehensive system management tool that monitors the operation of Compaq servers, workstations and clients
	Compaq <i>SmartStart</i> [™]	The server configuration and software integration tool from Compaq
	Array Configuration Utility (ACU) with Smart Array Controllers	Same easy to use yet powerful graphical user interface (GUI) configuration utility and easy to navigate wizards for all Smart Array Controllers including the Integrated Smart Array Controller

Standard Features

Manageability

Automatic Server Recovery-2 (ASR-2)
Compaq Remote Insight Board (PCI) (optional)
Compaq Remote Insight Lights-Out Edition (standard on 933 MHz, 866 MHz, and 800 MHz RILO models, optional on all other models)
Compaq Insight Manager
Compaq Insight Manager XE
Integrated Remote Console (IRC)
 Hardware Remote Console
 Full Remote Server Reboot Capability
 Reset and Failure Sequence Replay
 Host Hardware Independent
 Operating System Independent
 Communication is out-of-band
Integrated Management Log
Server Health Logging
Revision History Table
Automatic Revision Tracking
Drive Parameter Tracking (with Smart Array Controllers)
Dynamic Sector Repairing (with Smart Array Controllers)
Recovery Server Option (optional)
Off-Line Backup Processor capability
Pre-Failure Warranty (covers processors, hard drives and memory)

Security

Power-on password
Keyboard password
Diskette drive control
Diskette boot control
QuickLock, Network Server Mode
Removable CD/Floppy Drive Assembly
Serial interface control
Administrator's password
Disk configuration lock

Power Supply

Dual Input Voltage, Auto-sensing 190-Watt, 292-Watt peak input, 3 integrated fans with failure sensors, CE Mark Compliant

Ultra Thin Rack Deployment Overview

For the Ultra Thin Rack Deployment Overview including best practices for the Compaq ProLiant DL360, please see the following URL: <http://www.compaq.com/products/servers/proliantdl360/>.
Note: This Web site is available in English only.

Required Cabling

For required cabling information, refer to the Compaq website at <http://www.compaq.com/products/servers/proliantdl360/>.
Note: This web site is available in English only.

Standard Features

OS Support

Microsoft Windows NT Server
Microsoft Windows 2000
Novell NetWare 5.1
SCO UnixWare
LINUX (RedHat, S.U.S.E., TurboLinux Server, Caldera eServer)
Sun Solaris™ Intel Platform Edition

Note: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix page at: <ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf>.

Note: For a listing of the latest drivers available for the Compaq ProLiant DL360, please see: <http://www.compaq.com/support/files/server/us/index.html>

Service and Support

Compaq Services provides a three-year, limited warranty, including Pre-Failure Warranty (coverage of hard drives, memory and processors) fully supported by a Worldwide network of resellers and service providers and lifetime toll-free 7 x 24 hardware technical phone support. In addition, available service offerings include a full range of CarePac packaged hardware and software services:

- Installation and start up
- Extended coverage hours and enhanced response times
- System management and performance services
- Availability and recovery services

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.

Standard Features

DL360R01 P933-256K <i>210645-001</i>	Processor(s)	Intel Pentium III processor 933 MHz
	Cache Memory	256-KB level 2 ECC cache
	Memory	128 MB (Standard) to 4 GB (Maximum) PC133MHz Registered ECC SDRAM
	Network Controller	Two Compaq NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)
	Storage Controller	Integrated Smart Array Controller
	Internal Storage	72.8 GB maximum
	Optical Drive	High Speed IDE CD-ROM Drive (Low-profile)
	Form Factor	Rack (1U), (1.75-in / 4.45 cm)

DL360R01 P866-256K <i>202895-001</i>	Processor(s)	Intel Pentium III processor 866 MHz
	Cache Memory	256-KB level 2 ECC cache
	Memory	128 MB (Standard) to 4 GB (Maximum) PC133MHz Registered ECC SDRAM
	Network Controller	Two Compaq NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)
	Storage Controller	Integrated Smart Array Controller
	Internal Storage	72.8 GB maximum
	Optical Drive	High Speed IDE CD-ROM Drive (Low-profile)
	Form Factor	Rack (1U), (1.75-in / 4.45 cm)

DL360R01 P800-256K <i>161080-001</i>	Processor(s)	Intel Pentium III processor 800 MHz
	Cache Memory	256-KB level 2 ECC cache
	Memory	128 MB (Standard) to 4 GB (Maximum) PC133MHz Registered ECC SDRAM
	Network Controller	Two Compaq NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)
	Storage Controller	Integrated Smart Array Controller
	Internal Storage	72.8 GB maximum
	Optical Drive	High Speed IDE CD-ROM Drive (Low-profile)
	Form Factor	Rack (1U), (1.75-in / 4.45 cm)

DL360R01 P550-256K <i>161219-001</i>	Processor(s)	Intel Pentium III processor 550 MHz
	Cache Memory	256-KB level 2 ECC cache
	Memory	128 MB (Standard) to 4 GB (Maximum) PC133MHz Registered ECC SDRAM
	Network Controller	Two Compaq NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)
	Storage Controller	Integrated Smart Array Controller
	Internal Storage	72.8 GB maximum
	Optical Drive	High Speed IDE CD-ROM Drive (Low-profile)
	Form Factor	Rack (1U), (1.75-in / 4.45 cm)

Options

ProLiant DL360 Unique Options	P933 Pentium III 256K Processor Option Kit Note: When upgrading 550 MHz or 800 MHz models to 866 MHz or 933 MHz, the Compaq ProLiant DL360 Upgrade Kit (217222-B21) is required.	210647-B21
	P866 Pentium III 256K Processor Option Kit Note: When upgrading 550 MHz or 800 MHz models to 866 MHz or 933 MHz, the Compaq ProLiant DL360 Upgrade Kit (217222-B21) is required.	202897-B21
	P800 Pentium III 256K Processor Option Kit	175342-B21
	Desktop/Stackable Chassis Option	174573-B21
	Third Party Cabinet Rack Option	174574-B21
	Sliding Rails and Cable Management Solution Option	174575-B21
	Telco Rack Option	174576-B21
	Vertical-Mount PDU Bracket with High Voltage Cable Note: In order to deploy a Compaq Power Distribution Unit in the side of a rack cabinet next to the ProLiant DL360 units, you must purchase the Vertical-Mount PDU Bracket with High Voltage Cables (166097-B21) or Vertical-Mount PDU Bracket (191265-B21) depending on your rack configuration. Please see the Compaq Ultra Dense Server Deployment in Compaq Racks whitepaper at www.compaq.com/support/techpubs for more information.	166097-B21
	Vertical-Mount PDU Bracket Note: In order to deploy a Compaq Power Distribution Unit in the side of a rack cabinet next to the ProLiant DL360 units, you must purchase the Vertical-Mount PDU Bracket with High Voltage Cables (166097-B21) or Vertical-Mount PDU Bracket (191265-B21) depending on your rack configuration. Please see the Compaq Ultra Dense Server Deployment in Compaq Racks whitepaper at www.compaq.com/support/techpubs for more information.	191265-B21
	Internal Array Controller Cabling Option Kit Note: For internal drive support utilizing a Smart Array 4200 or Smart Array 5300 Controller.	174571-B21
Compaq ProLiant DL360 Upgrade Kit Note: When upgrading 550 MHz or 800 MHz models to 866 MHz or 933 MHz, the Compaq ProLiant DL360 Upgrade Kit (217222-B21) is required.	217222-B21	
Processor	P933 Pentium III 256K Processor Option Kit Note: When upgrading 550 MHz or 800 MHz models to 866 MHz or 933 MHz, the Compaq ProLiant DL360 Upgrade Kit (217222-B21) is required.	210647-B21
	P866 Pentium III 256K Processor Option Kit Note: When upgrading 550 MHz or 800 MHz models to 866 MHz or 933 MHz, the Compaq ProLiant DL360 Upgrade Kit (217222-B21) is required.	202897-B21
	P800 Pentium III 256K Processor Option Kit	175342-B21
Memory (DIMMs)	1024-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit	128280-B21
	512-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit	128279-B21
	256-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit	128278-B21
	128-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit	128277-B21
	64-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit	128276-B21
	Note: The PC133-MHz Registered ECC SDRAM DIMM Memory Kits will run at 100 MHz speeds when installed in the 550 MHz model.	
Internal Storage	Compaq ProLiant DL360 Upgrade Kit Note: When upgrading 550 MHz or 800 MHz models to 866 MHz or 933 MHz, the Compaq ProLiant DL360 Upgrade Kit (217222-B21) is required.	217222-B21

Options

Hard Drives		
Wide Ultra3 SCSI – Universal Hot Plug		
36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1")		176496-B22
18.2-GB Wide Ultra3 SCSI 10,000 rpm Drive (1")		142673-B22
9.1-GB Wide Ultra3 SCSI 10,000 rpm Drive (1")		142671-B22
18.2-GB Wide Ultra3 SCSI 15,000 rpm Drive (1")		188122-B22
9.1-GB Wide Ultra3 SCSI 15,000 rpm Drive (1")		188120-B22
Note: Wide Ultra3 Drives require an optional Wide Ultra3 Controller to support Ultra3 transfer rates.		
Wide Ultra2 SCSI – Universal Hot Plug		
18.2-GB Wide Ultra2 SCSI Drive (1")		388144-B22
9.1-GB Wide Ultra2 SCSI Drive (1")		123065-B22
Storage Controllers		
Smart Array 4200 Controller		295636-B21
Note: Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).		
Smart Array 5302/32 Controller		166207-B21
Note: Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).		
Smart Array 5302/64 Controller		124992-B21
Note: Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).		
Smart Array 5304/128 Controller		158939-B21
Note: Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).		
Ultra3 Channel Expansion Module for Smart Array 5300 Controller		153507-B21
Internal Array Controller Cabling Option Kit		174571-B21
Note: For internal drive support utilizing a Smart Array 4200 or Smart Array 5300 Controller.		
Smart Array 431 Controller		127695-B21
Note: For support of external drives.		
Smart Array 3200 Controller		295643-B21
Note: For support of external drives.		
64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter		154457-B21
Note: For support of external drives.		
Note: This adapter will run at 33-MHz speeds due to the 33-MHz PCI Bus.		
64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter		129803-B21
Note: For support of external drives.		
Note: This adapter will run at 33-MHz speeds due to the 33-MHz PCI Bus.		

Options

Communications	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21	
	Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	138603-B21	
	Compaq NC3135 Fast Ethernet Upgrade Module	138604-B21	
	Compaq NC3122 Fast Ethernet NIC PCI Dual 10/100	317450-B21	
	Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134 and NC3131	338456-B23	
	Compaq NC6133 Gigabit Module 1000LX Upgrade Module for NC3134 and NC3131	338456-B24	
	Compaq NC3133 Fast Ethernet Module 100FX Upgrade Module for NC3134 and NC3131	338456-B25	
	Compaq NC6134 Gigabit NIC 64 PCI 1000SX	174818-B21	
	Compaq NC4621 Token Ring NIC PCI 4/16 WOL	379956-B21	
	IBM 16/4 Token Ring PCI Special	133749-B21	
	<i>Note: Any NC31XX or NC61XX NIC can be used for redundancy with the embedded NC3163 Network Controller.</i>		
	ServerNet PCI Adapter	309833-B22	
	4M Cable	309834-B23	
	30M Cable	309834-B22	
	ServerNet II PCI Adapter Card Kit	174736-B21	
	ServerNet II 12-port Copper Serial Switch Kit	174739-001	
	ServerNet II 5-meter Copper Serial Cable Kit	174737-B21	
ServerNet II 10-meter Copper Serial Cable Kit	174738-B22		
Management Options	Compaq Remote Insight Lights-Out Edition	157866-001	
Monitors	TFT5000R Flat Panel Monitor	120207-001	
	TFT5010 15" Flat Panel Monitor (Opal)	104741-001	
	TFT5010 15" Flat Panel Monitor (Carbon)	154486-001	
	TFT5005 15" Flat Panel Monitor (Opal)	201431-001	
	TFT5005 15" Flat Panel Monitor (Carbon)	201430-001	
	P710 Color Monitor	210189-xxx	
	V710 Color Monitor	187895-xxx	
	V500 Color Monitor	325900-xxx	
	S510 Color Monitor	168636-xxx	
	S710 Color Monitor	152991-xxx	

Options

CRT Code Key	Dash #	Description
	-001	NA Kit with US Power Cord
	-002	Carbon model with US Power Cord
	-003	Touch Screen model with US Power Cord
	-004	NAFTA model with US Power Cord (Made in Mexico)
	-005	NA Kit with Powered Speakers
	-006	GSA model with US Power Cord
	-007	NH MPR model with US power cord (Made in Mexico)
	-B24	TCO model without power cord (Digital Classic)

Note: All models above are NH.

External Tape Drives	Description	Part Number
20/40-GB DAT 8 Cassette Autoloader External		166505-001
Note: Only external Tape Drives supported by the ProLiant DL360. Note: Requires an optional SCSI controller for support.		
	External 20/40GB DAT DDS-4 Tape Drive	157770-001
	External AIT 50-GB Tape Drive	157767-001
	External AIT 35-GB, LVD	216885-001
	External AIT 35-GB Tape Drive	388507-001
	External 20/40-GB DLT Drive (Opal)	340744-B22
	External 40/80-GB DLT Drive (Opal)	146197-B21
	12-GB DDS-3 DAT Cassette (10 pack)	295515-B21
	20/40-GB DAT 8 Cassette Magazine with Media	171532-B21
	DDS-4 Media (10 pack)	152842-001
	DAT Cleaning Cassette	242781-001
	AIT 35-GB Data Cassette (5 pack)	402371-B21
	AIT 50-GB Data Cassette (5 pack)	152841-001
	AIT Cleaning Cassette	402374-B21
	DLT IV Drive Cartridge (single)	295194-B21
	DLT IV Drive Cartridge (7 pack)	295192-B21
	DLT Cleaning Cartridge	199704-001
Note: Please see the Compaq 20/40-GB DAT DDS-4 8 Cassette Autoloader, Compaq 20/40-GB DAT Drive, Compaq AIT 50-GB Tape Drive, Compaq AIT 35-GB LVD, Compaq AIT 35-GB Tape Drive, Compaq 40/80-GB DLT Drive, or the Compaq 20/40-GB DLT Drive QuickSpecs for a listing of the latest O/S Support details, at:		
http://www.compaq.com/products/quickspecs/North_America/10233_na.html		

Options

External Storage	Compaq <i>StorageWorks</i> ™ Enclosure Model 4214R (rack-mountable)	103381-001	
	Compaq StorageWorks Enclosure Model 4254R (rack-mountable)	138151-001	
	Compaq StorageWorks Enclosure Model 4314R (rack-mountable)	190209-001	
	Compaq StorageWorks Enclosure Model 4354R (rack-mountable)	190211-001	
	Note: The Compaq StorageWorks Enclosure 4200/4300 Family support the Wide Ultra2/Ultra3 1" Hot Plug Hard Drives.		
	Rack-Mountable SCSI Storage Expander II	332607-001	
	Rack-Mountable ProLiant Storage System Model UE	348700-001	
	Rack-Mountable ProLiant Storage System Model U2	304100-B22	
	Note: The Compaq ProLiant Storage System Models UE and U2 support the Wide-Ultra SCSI-3 Drives.		
	ProLiant Storage System /U Redundant Power Supply	224206-001	
	StorageWorks Enclosure 4200 Redundant Power Supply Option	119826-B21	
	StorageWorks Enclosure 4200 Ultra2 Dual Bus I/O Module Option	119829-B21	
	StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option	190212-B21	
	StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option	190213-B21	
StorageWorks Enclosure 4200 Tower to Rack Conversion Kit	150213-B21		

Automated DLT Tape Library Solution Note: Requires an optional SCSI controller for support.	Note: Requires an optional SCSI controller for support.	
	TL891DLX DLT Library, 1 drive Rack, LVD	157305-B21
	TL891DLX DLT Library, 2 drive Rack, LVD	157305-B22
	TL891 DLT library unit, 1 drive Rack, FWD	120876-B21
	TL891 DLT library unit, 2 drive Rack, FWD	120876-B22
	Add-On 35/70-GB Drive for TL891	120878-B21
	Add-On 40/80-GB Drive for TL891DLX, LVD	157303-B21
	Add-On 40/80-GB Drive for TL8x1HVD	157304-B21
	MiniLibrary Data Unit	128670-B21
	MiniLibrary Expansion Unit	120877-B21
	MiniLibrary Expansion Unit, LVD	157301-B21
	Note: Available for TL891DLX DLT Library only.	
	StorageWorks Dual Channel Ultra-Wide Differential Library Host Bus Adapter	157299-B21
	Note: The StorageWorks Dual Channel Ultra-Wide Differential Library Host Bus Adapter is required to support FWD-based tape libraries.	
	DLT IV Data Cartridges (single pack)	295194-B21
	DLT IV Data Cartridges (7 pack)	295192-B21
	DLT Cleaning Cartridge	199704-001
	MiniLibrary Pass-Through Mechanism Kit	120880-B21
	10-slot Magazine	120881-B21
	MiniLibrary Table Top to Rack Mount Conversion Kit, Metric/RETMA racks	120882-B21
	MiniLibrary Table Top to Rack Mount Conversion Kit, Compaq racks	120883-B21
	Note: Please see the TL891 or the TL891DLX Automated DLT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, ProLiant Connectivity Kits, Host Bus Adapters, SCSI Cable Kits, and Localization Kits and additional options needed for a complete solution at: http://www.compaq.com/products/quickspecs/North_America/10233_na.html	

Options

Automated AIT Tape Library Solution Note: Requires an optional SCSI controller for support.	SSL2020 AIT Mini-Library 1 drive, 20 slot Table Top	175195-B21
	SSL2020 AIT Mini-Library 2 drive, 20 slot Table Top	175195-B22
	SSL2020 AIT Mini-Library 1 drive, 20 slot Rackmount	175196-B21
	SSL2020 AIT Mini-Library 2 drive, 20 slot Rackmount	175196-B22
	SSL2020 AIT Library Pass Thru with Transport	175312-B21
	SSL2020 AIT Library Pass Thru Extender	175312-B22
	AIT 50GB Drive Add-On LVD Drive for SSL2020 AIT Library	175197-B21
	19 Slot Magazine for SSL2020 AIT Library	175198-B21
	AIT 50-GB Data Cassette (5 pack)	152841-001
	AIT Cleaning Cassette	402374-B21
	Tabletop to Rackmount Upgrade Kit for SSL2020 AIT Library, Compaq Rack	175199-B21
	Tabletop to Rackmount Upgrade Kit for SSL2020 AIT Library, RETMA racks	175199-B22
	Note: Please see the AIT Automated DLT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: http://www.compaq.com/products/quickspecs/North_America/10233_na.html	

Tape Array Solution Note: Requires an optional SCSI controller for support.	TA1000 AIT Tape Array, Rackmount	175005-001
	AIT 50-GB Data Cassette (5 pack)	152841-001
	AIT Cleaning Cassette	402374-B21
	DLT Tape Array III Model 40/80-4	161140-001
	DLT Tape Array III Model 0	168047-001
	DLT Tape Array II Model 35/70-4 no software	295165-001
	DLT IV Data Cartridges (single pack)	295194-B21
	DLT IV Data Cartridges (7 pack)	295192-B21
	DLT Cleaning Cartridge	199704-001
	DLT Library Tabletop Conversion Kit	350384-B21
	Tape Array Cable Kit	242427-001
	DLT Tape Array III Model 0, LVD Cable Kit	168048-B21
	Note: Available for the DLT Tape Array and DLT Tape Array II only.	
Note: Available for the DLT Tape Array III Model.		
Note: Please see the Compaq TA1000 AIT Tape Array or Compaq DLT Tape Array II QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at: http://www.compaq.com/products/quickspecs/North_America/10233_na.html		

Options

StorageWorks RAID Array 4100	StorageWorks Raid Array 4100 (rack)	146013-001
	Fibre Channel Storage Hub 12	295573-001
	Fibre Channel Storage Hub 7	234453-001
	Compaq Storage Hub 7 Universal Rack Mount Kit	136127-B21
	Fibre Channel Storage Hub – 12 Port with 41U/42U Bracket	295573-B22
	Compaq Storage Hub 12 Management Option	159262-B21
	64-Bit/66MHz Fibre Channel Host Adapter	120186-B21
	Fibre Channel Host Adapter Redundancy Kit	174681-B21
	StorageWorks Raid Array 4000 Redundant Array Controller	223187-B21
	StorageWorks Fibre Channel Arbitrated Loop Switch 8	177862-B21
	StorageWorks Fibre Channel Arbitrated Loop 3-Port Expansion Module	177863-B21
	GBIC-SW Connector Kit (two each)	234459-B21
	GBIC-LW Connector Kit (two each)	340412-B21
	Fibre Channel Connection Kit, 3 SW GBICS, 2 Cables	380579-B21
	Fibre Channel Connection Kit, 2 SW GBICS, 2 Cables	380596-B21
	Fibre Channel Short Wave GBIC	380561-B21
	Fibre Channel Long Wave GBIC	127508-B21
	2m Multi-Mode Fibre Channel Cable	234457-B21
	5m Multi-Mode Fibre Channel Cable	234457-B22
	15m Multi-Mode Fibre Channel Cable	234457-B23
	30m Multi-Mode Fibre Channel Cable	234457-B24
	50m Multi-Mode Fibre Channel Cable	234457-B25
	Raid Array 4000 Redundant Power Supply	224206-001
	Raid Array 4100 Rack to Tower Conversion Kit	154253-B21
	Fibre Channel Troubleshooting Kit	234468-B21

StorageWorks RAID Array 8000

Departmental Pedestal Models

RA8000 FC Single Controller (Opal)	400553-B22
RA8000 FC Dual Controller (Opal)	400552-B22
Expansion Cabinet 24 slot (Opal)	380570-B22

Rack Mountable Models

RA8000 FC Single Controller	400554-B21
RA8000 FC Dual Controller	400700-B21
Expansion Cabinet 24 slot	380568-B21

Note: Please see the Compaq StorageWorks Fibre Channel RAID Array 8000, ESA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www.compaq.com/products/quickspecs/North_America/10418_na.html

Options

StorageWorks Enterprise Storage Array 12000	<i>ESA Building Blocks</i>	
	High-Capacity/General Business - Dual Controllers 48 slots, 60 Hz (Opal)	400557-002
	High Bandwidth Quad controllers 48 slots, 60 Hz (Opal)	400555-002
	Single Expansion Dual controllers 24 slots, 25U extra cabinet space, 60 Hz (Opal)	400559-002
	Expansion enclosure 48 slots, 60 Hz (Opal)	380640-002
<p>Note: Please see the Compaq StorageWorks Fibre Channel RAID Array 8000, ESA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www.compaq.com/products/quickspecs/North_America/10418_na.html</p>		
StorageWorks Modular Array 6000	MA6000 D14	187738-B21
	MA6000 S14	187739-B21
	<p>Note: Please see the Compaq StorageWorks MA6000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www.compaq.com/products/quickspecs/North_America/10418_na.html</p>	
StorageWorks Modular Array 8000/Enterprise Modular Array 12000	EMA12000 D14 60Hz	175990-B21
	EMA12000 S14 60Hz	175991-B21
	MA8000 60Hz	175992-B21
	EMA12000 Blue 60Hz	175993-B21
	<p>Note: Options include controller, solution kits, ACS. MA8000/EMA12000 includes controller shelf, drive shelves and cabinet. Packaging upgrade to RA8000/ESA12000.</p> <p>Note: Please see the Compaq StorageWorks MA8000/EMA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www.compaq.com/products/quickspecs/North_America/10418_na.html</p>	
StorageWorks Options	Fibre Channel Tape Controller – II	152975-001
	Fibre Channel Storage Switch 16	380578-B21
	Fibre Channel Storage Switch 8	380591-B21
	Fibre Channel SAN Switch/8 with Fabric Operating Software	158222-B21
	Fibre Channel SAN Switch/16 with Fabric Operating Software	158223-B21
	F200 Clustering Kit	380357-B21

Options

Uninterruptible Power Systems	Rack-Mountable UPS R1500 (100-127 VAC)	242704-001
	Compaq UPS R3000 XR (120V)	192186-001
	Compaq UPS R3000 XR (208V)	192186-002
	Rack-Mountable UPS R6000 (208V)	347207-001
	Extended Runtime Module, R3000 XR	192188-B21
	<i>Note: Available for the Rack-Mountable UPS R3000 XR Models only.</i>	
	Six-Port Card	192185-B21
	<i>Note: Available for the new Rack-Mountable UPS "XR" Models only.</i>	
	SNMP/Serial Port Card	192189-B21
	<i>Note: Available for the new Rack-Mountable UPS "XR" Models only.</i>	
	R6000 Extended Runtime Module	347224-B21
	SNMP-EN Adapter	347225-B21
	High to Low Voltage Transformer (250VA)	388643-B21
	Multi-Server UPS Card	123508-B21
	Scalable UPS Card	123509-B21
<p><i>Please see the Compaq Rack Builder for configuration assistance at www.compaq.com/products/storageworks/rack_accessories/rackbuilderpro2.html.</i></p>		
ProLiant DL360 Unique Deployment Options	Vertical-Mount PDU Bracket with High Voltage Cable	166097-B21
	<p><i>Note: In order to deploy a Compaq Power Distribution Unit in the side of a rack cabinet next to the ProLiant DL360 units, you must purchase the Vertical-Mount PDU Bracket with High Voltage Cables (166097-B21) or Vertical-Mount PDU Bracket (191265-B21) depending on your rack configuration. Please see the Compaq Ultra Dense Server Deployment in Compaq Racks whitepaper at www.compaq.com/support/techpubs for more information.</i></p>	
	Vertical-Mount PDU Bracket	191265-B21
	<p><i>Note: In order to deploy a Compaq Power Distribution Unit in the side of a rack cabinet next to the ProLiant DL360 units, you must purchase the Vertical-Mount PDU Bracket with High Voltage Cables (166097-B21) or Vertical-Mount PDU Bracket (191265-B21) depending on your rack configuration. Please see the Compaq Ultra Dense Server Deployment in Compaq Racks whitepaper at www.compaq.com/support/techpubs for more information.</i></p>	
	Desktop/Stackable Chassis Option	174573-B21
	Third Party Cabinet Rack Option	174574-B21
	Sliding Rails and Cable Management Solution Option	174575-B21
	Telco Rack Option	

Options

Compaq Rack 9000 Series (Opal)	Compaq Rack 9142 (42U) – Pallet	120663-B21
	Compaq Rack 9142 (42U) – Shock Pallet	120663-B22
	Compaq Rack 9142 (42U) – Crated	120663-B23
	Compaq Rack 9136 (36U) – Pallet	120664-B21
	Compaq Rack 9136 (36U) – Shock Pallet	120664-B22
	Compaq Rack 9136 (36U) – Crated	120664-B23
	Compaq Rack 9122 (22U) – Pallet	120665-B21
	Compaq Rack 9122 (22U) – Shock Pallet	120665-B22
	Compaq Rack 9122 (22U) – Crated	120665-B23
	<p>Note: -B21 part numbers are for all Geos -B22 part numbers are used to ship configured racks (by custom systems, VARs and Channels) -B23 part numbers are used for air shipments</p> <p><i>**Not all Compaq equipment is qualified to be shipped in the Rack 9000 Series.</i></p>	

Rack Options for Compaq Rack 9000 Series	Baying/Coupling Kit	120669-B21
	Rack 9142 Side Panel	120670-B21
	Rack 9136 Side Panel	120671-B21
	Ballast Option Kit	120672-B21
	Stabilizer Option Kit	120673-B21
	Rack Rail Adapter Kit (25" depth)	120675-B21
	Fan (110 VAC) Roof Mount	120677-B21
	Fan (220 VAC) Roof Mount	120678-B21
	9142 Extension Kit	120679-B21
	Grounding Rack Option Kit	120682-B21
	Cable Management D-Rings Kit	168233-B21
	Rack Blanking Panels (1U)	189453-B21
	Rack Blanking Panels (2U)	189453-B22
	Rack Blanking Panels (3U)	189453-B23
	Rack Blanking Panels (4U)	189453-B24
	Rack Blanking Panels (5U)	189453-B25
	9136 Extension Kit	218216-B21
	9142 Short Rear Door	218217-B21
	9136 Short Rear Door	218218-B21
	Sliding Shelf Kit	332564-B21
	Monitor Utility Shelf	303606-B21
	Rack Blanking Panel Kit for Rack 7000 series (Beach Gray)	169940-001
	Rack Blanking Panel Kit for Rack 9000 series (Opal)	169940-B21
	Compaq Networking Cable Management Kit	292407-B21
	Compaq Networking Recessed Rail Management Kit	292406-B21
	Compaq Power Distribution Unit-24A Low Voltage PDU	295363-001
	Compaq Power Distribution Unit-16A High Voltage PDU (cord attached)	295363-002
	Compaq Power Distribution Unit-16A High Voltage, 16A (detachable cord)	295363-B21
	Compaq Power Distribution Unit-24A High Voltage	295363-003
	Compaq Dual Input Power Distribution Unit-24A High Voltage	191186-001
	Server Console Switch 1 x 2-port (100 to 230 VAC)	120206-001
	Server Console Switch 1 x 4-port (100 to 230 VAC)	400336-001
	Server Console Switch 1 x 8-port (100 to 230 VAC)	400337-001
Server Console Switch 2 x 8-port (100 to 230 VAC)	400338-001	
Server Console Switch 2 x 8-port (48 VDC)	400542-B21	

Options

Rack Options for Compaq Rack 9000 Series <i>(continued)</i>	CPU to Server Console Cable, 12'	110936-B21
	CPU to Server Console Cable, 20'	110936-B22
	CPU to Server Console Cable, 40'	110936-B23
	CPU to Server Console Cable, 3'	110936-B24
	CPU to Server Console Cable, 6'	110936-B25
	CPU to Server Console Cable (Plenum Rated) 20'	149363-B21
	CPU to Server Console Cable (Plenum Rated) 40'	149364-B21
	Switch Box Connector Kit (115 V)	144007-001
	Switch Box Connector Kit (230 V)	144007-002
	Keyboard with Hot Keys and Trackball	158649-001
	Rack Internal Trackball Keyboard (Opal)	185152-406
	1U Rack Keyboard Drawer	338056-B21
	Keyboard/Monitor/Mouse extension cables	169989-001

CarePaks

Hardware Services 4-Hour On-site Service

5 x 9 Coverage, 3 Years (2-5-2 Part Number for U.S.)	FM-EL4HR-36
5 x 9 Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-EL4HR-36
5 x 9 Coverage, 3 Years (6-3 Part Number for U.S.)	162676-002
5 x 9 Coverage, 3 Years (6-3 Part Number for Canada)	162676-122
7 x 24 Coverage, 3 Years (2-5-2 Part Number for U.S.)	FM-EL724-36
7 x 24 Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-EL724-36
7 x 24 Coverage, 3 Years (6-3 Part Number for U.S.)	162675-002
7 x 24 Coverage, 3 Years (6-3 Part Number for Canada)	162675-122

Installation & Start-up Services

Hardware Installation (2-5-2 Part Number for U.S.)	FM-ELINS-IN
Hardware Installation (2-5-2 Part Number for Canada)	FP-ELINS-IN
Hardware Installation (6-3 Part Number for U.S.)	401791-002
Hardware Installation (6-3 Part Number for Canada)	401791-122
O/S & Hardware Installation (2-5-2 Part Number for U.S.) (Hardware installation plus two days O/S start-up activity (installation, configuration, network access & orientation))	FP-CXHSI-01
O/S & Hardware Installation (6-3 Part Number for U.S.) (Hardware installation plus two days O/S start-up activity (installation, configuration, network access & orientation))	160555-002

Business Solutions Priority Service Plan – Priority Level

5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (2-5-2 Part Number for U.S.)	FP-CX101-36
5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (2-5-2 Part Number for Canada)	FP-CZ101-36
5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for U.S.)	155323-002
5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for Canada)	155323-122

Business Solutions Priority Service Plan – Priority 24 Level

7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (2-5-2 Part Number for U.S.)	FP-CX201-36
7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (6-3 Part Number for U.S.)	155327-002

Options

CarePacs (continued)

Business Solutions Priority Service Plan – Priority Plus Level

7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (2-5-2 Part Number for U.S.)	FP-CX301-36
7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (2-5-2 Part Number for Canada)	FP-CZ301-36
7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (6-3 Part Number for U.S.)	155331-002
7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (6-3 Part Number for Canada)	155331-122

Business Solutions Priority Service Plan – Priority Premier Level

7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for U.S.)	FP-CX501-36
7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for Canada)	FP-CZ501-36
7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for U.S.)	155335-002
7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for Canada)	155335-122

Business Solutions Priority Service Plan – Priority Executive Premier Level

7 x 24 2-hour H/W, 7 x 24 30-minutes O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for U.S.)	FP-CX701-36
7 x 24 2-hour H/W, 7 x 24 30-minutes O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for Canada)	FP-CZ701-36
7 x 24 2-hour H/W, 7 x 24 30-minutes O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for U.S.)	155339-002
7 x 24 2-hour H/W, 7 x 24 30-minutes O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for Canada)	155339-122

Note: For more information, customer/resellers can contact www.Compaq.com/services.

Memory

Compaq ProLiant DL360 All Models

STANDARD MEMORY

128-MB PC133-MHz Registered ECC SDRAM DIMM installed (1 x 128-MB SDRAM DIMM)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Up to 3200-MB memory is available with the optional installation of PC133 MHz Registered ECC SDRAM DIMM memory kits.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Up to 4096-MB of memory is available with the removal of the standard 128-MB of memory and the optional installation of PC133 MHz Registered ECC SDRAM DIMM memory kits.

Note: Chart does not represent all possible configurations.

Memory		Slot			
		1	2	3	4
Standard	128 MB	128 MB	Empty	Empty	Empty
Optional	3200 MB	128 MB	1024 MB	1024 MB	1024 MB
Maximum	4096 MB	1024 MB	1024 MB	1024 MB	1024 MB

Following are memory options available from Compaq:

- 1024-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit 128280-B21
- 512-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit 128279-B21
- 256-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit 128278-B21
- 128-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit 128277-B21
- 64-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit 128276-B21

Storage



- 0, 1 – 2 x 1 2 x 1 inch Wide Ultra2/Ultra3 SCSI Hot Pluggable Hard Drive Bays
- A Low-profile High Speed IDE CD-ROM
- B 3.5 inch Diskette Drive

DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
Removable Media			
1.44-MB Diskette Drive	Up to 1	B	Integrated
Low-profile IDE CD-ROM Drive	Up to 1	A	Integrated
Hard Drives			
<i>Wide Ultra2 Hot Pluggable Drives</i>			
1-inch 18.2-GB 9.1-GB	Up to 2	0-1	Integrated Smart Array Controller Smart Array 4200 Controller (requires the purchase of the Internal Array Controller Cabling Option Kit 174571-B21) Smart Array 5300 Controller (requires the purchase of the Internal Array Controller Cabling Option Kit 174571-B21)
<i>Wide Ultra3 Hot Pluggable Drives</i>			
1-inch 36.4-GB 10,000 rpm 18.2-GB 10,000 rpm 9.1-GB 10,000 rpm 18.2-GB 15,000 rpm 9.1-GB 15,000 rpm	Up to 2	0-1	Integrated Smart Array Controller Smart Array 4200 Controller (requires the purchase of the Internal Array Controller Cabling Option Kit 174571-B21) Smart Array 5300 Controller (requires the purchase of the Internal Array Controller Cabling Option Kit 174571-B21)
External Storage			
StorageWorks Enclosure 4200/4300 Family (supports Ultra2/Ultra3 drives only)	Up to 8	External	Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller Smart Array 5300 Controller 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
ProLiant Storage System Model UE ProLiant Storage System Model U2 (supports Wide-Ultra drives only)	Up to 8	External	Smart Array 3200 Controller Smart Array 4200 Controller Smart Array 5300 Controller 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
SCSI Storage Expander II	Up to 3	External	Smart Array 3200 Controller Smart Array 4200 Controller Smart Array 5300 Controller 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
StorageWorks Raid Array 4100 Kit	Up to 11	External	Fibre Channel Host Adapter

Storage

DRIVE SUPPORT *(continued)*

	Quantity Supported	Position Supported	Controller
Maximum Storage Capacity (Ultra2 SCSI Attached)			
Internal:	72.8 GB (2 x 36.4 GB 1")		
External:	3.494 TB (8 x (12 x 36.4-GB hard drives))		
Total:	3.567 TB		

Maximum Storage Capacity (StorageWorks Enclosure 4200 SCSI Attached)			
Internal:	72.8 GB (2 x 36.4 GB 1")		
External:	4.076 TB (8 x (14 x 36.4-GB 1" Wide Ultra2/Ultra3))		
Total:	4.149 TB		

Maximum Storage Capacity (External RAID Array 4100 Attached)			
Internal:	72.8 GB (2 x 36.4 GB 1")		
External:	4.804 TB (11 x (12 x 36.4-GB hard drives))		
Total:	4.877 TB		

Tape Drives

Note: For a listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:

http://www.compaq.com/products/quickspecs/North_America/10233_na.html

20/40-GB DAT 8 Cassette Autoloader	Up to 4	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
20/40-GB DAT DDS-4 Tape Drive	Up to 3	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
AIT 35-GB, LVD AIT 35-GB Tape Drive AIT 50-GB Tape Drive	Up to 3 (for AIT 35 GB) Up to 2 (for AIT 50 GB)	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
External 40/80-GB DLT External 20/40-GB DLT	Up to 3	External	Integrated Smart Array Controller Compaq Dual Channel Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
TA1000 AIT Tape Array	Up to 1	External	Compaq Wide-Ultra SCSI-3 Adapter 64-bit Dual Channel Wide Ultra2 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
SSL2020 AIT Mini-Library	Up to 5	External	64-bit Dual Channel Wide Ultra2 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
DLT Tape Array II Model 35/70 DLT Tape Array III Models	1 to 4 (no more than 2 drives per bus if performance is an issue)	External	Compaq Dual Channel Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter
TL891DLX DLT Library	2 drives per SCSI channel	External	64-bit Dual Channel Wide Ultra2 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
TL891 DLT Library (1 – 2 Drive)	2 drives per SCSI channel	External	StorageWorks Dual Channel Ultra-Wide Differential Library HBA

Technical Specifications

System Unit	Dimensions (HxWxD)	1.65 x 16.75 x 25 in/4.19 x 42.55 x 63.5 cm
	Weight	100 lbs/45.36 kg
	No hard drives installed, one power supply	26 lbs/11.81 kg
	Hard drives installed, one power supply	28.6 lbs/13 kg
	Input Requirements	Range Line Voltage 100 to 240 VAC
		Nominal Line Voltage 100 to 120 VAC/220 to 240 VAC
		Rated Input Current 2.66A (110 V) to 1.33A (220 V)
		Rated Input Frequency 50 to 60 Hz
		Rated Input Power 292W
		Note: 292W of Rated Input Power is for the Maximum Peak Output Power of 190W.
BTU Rating	996 BTUs/hr	
	Note: The BTU Rating listed is for the Rated Input Power of 292W	
Power Supply Output Power (per power supply)	Rated Steady-State Power	170W
		Note: The Steady State Power of 170W is when the ProLiant DL360 is fully loaded with two 800-MHz processors, four 1024-MB DIMMs, two 10,000 rpm drives, a Remote Insight Lights-Out Edition and a Smart Array 4200 Controller.
	Maximum Peak Power	190W
Temperature Range	Operating	50° to 95°F/10° to 35°C
	Shipping	-22° to 122°F/-30° to 50°C
Maximum Wet Bulb Temperature		101.7°F/38.7°C
Acoustic Noise	Idle	
	(Fixed Disk Drives Spinning)	
	L _{wAd} (BELS)	6.5
	L _{pAm} (dBA)	51
	Operating	
	(Random Seeks to Fixed Disks)	
L _{wAd} (BELS)	6.6	
L _{pAm} (dBA)	52	

Technical Specifications

1.44-MB Diskette Drive	Diskette Size	3.5 in	
	LED Indicators (front panel)	Green	
	Read/Write Capacity per Diskette (high/low density)	1.44 MB/720 KB	
	Drive Supported	One	
	Drive Height	One-third	
	Drive Rotation	300 rpm	
	Transfer Rate (high/low)	500/250 Kb/s	
	Bytes/Sector	512	
	Sectors/Track (high/low)	18/9	
	Tracks/Side (high/low)	80/80	
	Access Times	Track-to-Track (high/low)	3/6 ms
		Average (high/low)	169/94 ms
		Settling Time	15 ms
		Latency Average	100 ms
Cylinders (high/low)	80/80		
Read/Write Heads	Two		

Technical Specifications

Hot Plug Wide Ultra2 SCSI Hard Drives	18.2 GB	Capacity	18209.3 MB	
	388144-B22	Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra2 SCSI	
		Transfer Rate Synchronous (Maximum)	80 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	7.0 ms
			Full-Stroke	15 ms
			Rotational Speed	7200 rpm
		Physical Configuration	Logical Blocks	35,565,080
	Operating Temperature	50° to 95°F/10° to 35°C		
	9.1 GB	Capacity	9100.0 MB	
	123065-B22	Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra2 SCSI	
		Transfer Rate Synchronous (Maximum)	80 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	7.0 ms
			Full-Stroke	15 ms
			Rotational Speed	7200 rpm
		Physical Configuration	Logical Blocks	17,773,524
	Operating Temperature	50° to 95°F/10° to 35°C		
Hot Plug Wide Ultra3 SCSI Hard Drives	36.4 GB 10K	Capacity	36400 MB	
	176496-B22	Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	5.2 ms
			Full-Stroke	12 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Logical Blocks	71,132,000
	Operating Temperature	50° to 95°F/10° to 35°C		
	18.2 GB 10K	Capacity	18209.3 MB	
	142673-B22	Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	80 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	5.2 ms
			Full-Stroke	12 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Logical Blocks	35,566,080
	Operating Temperature	50° to 95°F/10° to 35°C		

Technical Specifications

Hot Plug Wide Ultra3 SCSI Hard Drives <i>(continued)</i>	9.1 GB 10K 142671-B22	Capacity	9100.0 MB		
		Height	1 in/25.4 mm		
		Width	3.5 in/88.9 mm		
		Interface	Wide Ultra3 SCSI		
		Transfer Rate Synchronous (Maximum)	80 MB/s		
		Seek Time (typical reads, including settling)	Single Track	0.8 ms	
			Average	5.2 ms	
			Full-Stroke	12 ms	
		Physical Configuration	Rotational Speed	10,000 rpm	
			Logical Blocks	17,773,524	
		Operating Temperature	50° to 95°F/10° to 35°C		
	18.2 GB 15K 188122-B22	Capacity	18209.3 MB		
		Height	1 in/25.4 mm		
		Width	3.5 in/88.9 mm		
		Interface	Wide Ultra3 SCSI		
		Transfer Rate Synchronous (Maximum)	160 MB/s		
		Seek Time (typical reads, including settling)	Single Track	0.8 ms	
			Average	5.0 ms	
			Full-Stroke	12 ms	
		Physical Configuration	Rotational Speed	15,000 rpm	
			Logical Blocks	35,565,080	
		Operating Temperature	50° to 95°F/10° to 35°C		
	9.1 GB 15K 188120-B22	Capacity	9100.0 MB		
		Height	1 in/25.4 mm		
		Width	3.5 in/88.9 mm		
		Interface	Wide Ultra3 SCSI		
		Transfer Rate Synchronous (Maximum)	160 MB/s		
		Seek Time (typical reads, including settling)	Single Track	0.8 ms	
			Average	5.0 ms	
			Full-Stroke	12 ms	
		Physical Configuration	Rotational Speed	15,000 rpm	
			Logical Blocks	17,773,524	
		Operating Temperature	50° to 95°F/10° to 35°C		

Technical Specifications

Low-Profile 24X Max IDE CD-ROM Drive	Disk	Applicable Disk	CD-DA, CD-ROM (Mode 1 and 2) CD-XA, CD-I (Mode 2, Form 1 and 2) CD-I Ready, CD Extra, Video CD, CD-Bridge Photo CD (Single and Multi-session) CD-WO
		Capacity	550 MB (Mode 1, 12 cm) 640 MB (Mode 2, 12 cm)
		Diameter	4.7 in, 3.15 in/12 cm, 8 cm
		Rotational Speed	4200 rpm maximum
		Center Hole	0.6 in/15 mm diameter
		Thickness	1.2 mm
		Track Pitch	1.6 μ m
		Block Size	Mode 0 Mode 1 Mode 2
	Interface	IDE (ATAPI)	
	Access Times (typical)	Random Full-Stroke	< 140 ms < 300 ms
	Audio Output Level	Line-Out	0.7 VRMS at 47 kOhms
	Data Transfer Rate	Sustained Burst	150 KB/s (sustained 1X) 2100 to 4800 KB/s
	Cache Buffer	128 KB	
	Start-up Time (typical)	< 10 seconds	
	Stop Time	< 5 seconds	
	Operating Conditions	Temperature Humidity	41° to 120°F/5° to 55°C 10% to 80%
	Dimensions	(HxWxD, maximum) Weight	0.51 x 5.24 x 5.2 in/12.7 x 131 x 130 mm < 340 g

Technical Specifications

Integrated Smart Array Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	32 bit, 33 MHz (integrated on server board)
	PCI Peak Data Transfer Rate	133 MB/s
	SCSI Protocols Supported	Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	80 MB/s
	Note: For ProLiant servers having two internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
	Channels	1
	Note: For ProLiant servers having two internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
	SCSI Ports (external/internal)	0/1
	Note: For ProLiant servers having two internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
	Drives Supported (maximum)	Maximum = total number of internal drives
	Note: Maximum is the total number of internal drives on each specific ProLiant server.	
	Cache	8-MB read only
	RAID Support	0, 1, 0+1, 5
	Note: RAID 5 is not supported on the Compaq ProLiant DL360. A minimum of three drives is required for RAID 5 and the Compaq ProLiant DL360 only supports up to two.	
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Technical Specifications

Two Compaq NC3163 Fast Ethernet NIC Embedded 10/100 WOL (Wake On LAN)	Network Interface	10Base-T/100Base-TX
	Compatibility	IEEE 802.3/802.3u compliant
	Data Transfer Method	32-bit bus-master PCI
	Network Transfer Rate	
	10Base-T (Half-Duplex)	10 Mb/s
	10Base-T (Full-Duplex)	20 Mb/s
	100Base-TX (Half-Duplex)	100 Mb/s
	100Base-TX (Full-Duplex)	200 Mb/s
	Connector	RJ-45
	Cable Support	
10Base-T	Categories 3, 4 or 5 UTP; up to 328 feet (100 meters)	
100Base-TX	Category 5 UTP; up to 328 feet (100 meters)	
Video Controller	Controller Chip	ATI RAGE IIC PCI
	Video DRAM	4-MB Video SGRAM
	Data Transfer Method	32-bit PCI
	Support Resolution	Supported Color Depths:
	640 x 480	16.7M, 64K, 256, 16
	800 x 600	16.7M, 64K, 256, 16
	1024 x 768	16.7M, 64K, 256, 16
	1152 x 864	16.7M, 64K, 256, 16
1280 x 1024	16.7M, 64K, 256, 16	
1600 x 1200	64K, 256, 16	
Connector	VGA	

Technical Specifications

Smart Array 5300 Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66MHz
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	640 MB/s total, 160 MB/s per channel
	Channels	2, 4
	SCSI Ports (external/internal)	2 channel model: 2/2 4 channel model: 4/2
	Drives Supported (maximum)	56
	Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200 family. (14 hard disk drive enclosure)	
	Cache	128, 64 or 32 MB battery backed read-write
	RAID Support	0, 1, 0+1, 5, Advanced Data Guarding
	Note: RAID ADG will be available in the near future. For customers who have purchased the SA-5304/128 a quick firmware upgrades to enable the technology will be available from www.compaq.com/smartarray . The 128-MB cache module with RAID ADG will also be available in the near future.	
	Note: RAID Support: Advanced Data Guarding (RAID ADG) is available with 128-MB versions of the SA-5300 only.	
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
Drive Roaming	Yes	
Redundant Controllers	No	

Technical Specifications

Smart Array 4200 Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 33 MHz
	PCI Peak Data Transfer Rate	266 MB/s
	SCSI Protocols Supported	Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	320 MB/s total, 80 MB/s per channel
	Channels	4
	SCSI Ports (external/internal)	4/2
	Drives Supported (maximum)	56
	Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure).	
	Cache	64-MB battery backed read-write
	RAID Support	0, 1, 0+1, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
Automatic Data Recovery	Yes	
Drive Roaming	Yes	
Redundant Controllers	No	
Smart Array 3200 Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 33 MHz
	PCI Peak Data Transfer Rate	266 MB/s
	SCSI Protocols Supported	Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	320 MB/s total, 80 MB/s per channel
	Channels	4
	SCSI Ports (external/internal)	4/2
	Drives Supported (maximum)	56
	Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure).	
	Cache	64-MB battery backed read-write
	RAID Support	0, 1, 0+1, 4, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
Automatic Data Recovery	Yes	
Drive Roaming	Yes	
Redundant Controllers	No	

Technical Specifications

Smart Array 431 Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66MHz
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	160 MB/s
	Channels	1
	SCSI Ports (external/internal)	1/1
	Drives Supported (maximum)	14
	<i>Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure).</i>	
	Cache	16-MB cache engine
	RAID Support	0, 1, 0+1 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
Automatic Data Recovery	Yes	
Drive Roaming	Yes	
Redundant Controllers	No	
64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	Drives Supported	Up to 14 SCSI devices
	Storage Capacity	254.8 GB
	Data Transfer Method	64-bit / 66-MHz PCI bus-master
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel
	SCSI Protocols	Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast SCSI-2
	Electrical Protocol	Low Voltage Differential (LVD)
	SCSI Termination	Active Termination
	External SCSI Connectors	One 68-Pin Wide Ultra SCSI-3 connector
	Internal SCSI Connectors	Two 68-Pin Wide Ultra SCSI-3 connectors (one LVD and one SE) One 50-Pin Narrow Ultra connector

Technical Specifications

64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	Drives Supported	Up to 28 SCSI devices (14 per channel)
	Storage Capacity	509.6 GB
	Data Transfer Method	64-bit / 66-MHz PCI bus-master
	Maximum SCSI Channel Transfer Rate	(The Compaq ProLiant DL360 PCI bus operates at 33 MHz.) 160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel
	SCSI Protocols	Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast SCSI-2
	Electrical Protocol	Low Voltage Differential (LVD)
	SCSI Termination	Active Termination
	External SCSI Connectors	Two 68-Pin VHDCI connectors
	Internal SCSI Connectors	Two 68-Pin Wide Ultra SCSI-3 connectors One 50-Pin Narrow Ultra connector

Compaq Rack 9142 (42U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	78.7 in/2,000 mm	83.38 in/2,168.65 mm	
	Depth	35.8 in/909 mm	48 in/121.92 mm	Opal
	Width	23.7 in/603 mm	32 in/812.8 mm	
	Weight	253 lbs/114.84 kg	325 lbs/147.52 kg	

Compaq Rack 9136 (36U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	68.6 in/1,742 mm	75.25 in/1,911.35 mm	
	Depth	35.8 in/909 mm	48 in/121.92 mm	Opal
	Width	23.7 in/603 mm	32 in/812.8 mm	
	Weight	165 lbs/75 kg	234 lbs/106 kg	

Compaq Rack 9122 (22U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	43 in/1,092 mm	52.25 in/1,327.15 mm	
	Depth	35.8 in/909 mm	48 in/121.92 mm	Opal
	Width	24 in/610 mm	32 in/812.8 mm	
	Weight	176 lbs/79.89 kg	225 lbs/102.13 kg	