

# Rack-Mountable ProLiant 4500R

Processor/System Boards*	Assembly	Spare Part
5/100 Processor Board	005154-001	184793-001
5/133 Processor Board W/ 2MB Cache	004715-001	213417-001
5/133 Processor Board w/ 512 KB Cache	005390-001	213438-001
5/166 Processor Board	005590-001	213466-001
Drive Backplane Board, Wide SCSI, Hot Pluggable	004839-001	169185-001
Pass Through Board, Wide SCSI	004349-001	199612-001
System I/O Board, SCSI	004308-001	188414-001

\* All processor boards listed in this table ship with a processor chip installed.

## SW1 Switch Settings (004308)

SW	Function	Set to ON	Set to OFF *
S1	VIDEO DISABLE	Disables integrated video controller	Enables the integrated video controller
S2	CONFIGURATION LOCK	Disables configuration changes	Enables configuration changes
S3	CHASSIS	System installed in rack chassis	System installed in tower chassis
S4	DISKETTE BOOT OVERRIDE	Enables system booting from diskette drive regardless of config setting	System booting from the diskette drive is controlled by config settings
S5	POWER-ON PASSWORD	Clears password	System booting is password protected if a password is set
S6	CONFIGURATION MEMORY CLEAR	Clears the configuration memory	

\* Default.

## Jumper Settings For SCSI-ID

Device in Drive Bay	SCSI ID	PIN 3 ID2	PIN 2 ID1	PIN 1 ID0
6	6	ON	ON	OFF
5	5	ON	OFF	ON

**NOTE:** SCSI Ids for bays 0-3 are preset to 0-3 respectively. No two drives can have the same SCSI ID.

## Keyboard/Monitor/Mouse Switch Box Switch Settings. SPN 169968-001 4-Port Switch Box Board 1: Monitor Controlling DIP Switches

DIP Switch Banks	Controlling DIP Switches	Server Controlled
S1	Switches 1 – 4	Server 1
	Switches 5 – 8	Server 2
S2	Switches 1 – 4	Server 3
	Switches 5 – 8	Server 4

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## Keyboard/Monitor/Mouse Switch Box Switch Settings. SPN 169968-002

### 8-Port Switch Box Board 1: Monitor Controlling DIP Switches

DIP Switch Banks	Controlling DIP Switches	Server Controlled
S1	Switches 1 – 4	Server 1
	Switches 5 – 8	Server 2
S2	Switches 1 – 4	Server 3
	Switches 5 – 8	Server 4
S3	Switches 1 – 4	Server 5
	Switches 5 – 8	Server 6
S4	Switches 1 – 4	Server 7
	Switches 5 – 8	Server 8

## Keyboard/Monitor/Mouse Switch Box Switch Settings.

### Monitor Mode Board 1, DIP Switch Settings for Each Server Monitor

Monitor Type	SW 1 & 5	SW 2 & 6	SW 3 & 7	SW 4 & 8
SVGA – Compaq 430	ON	ON	OFF	ON
VGA Monochrome	OFF	OFF	ON	OFF
VGA/SVGA	OFF	ON	OFF	OFF
XVGA: IBM 8512	OFF	ON	OFF	OFF
XVGA: IBM 8513	OFF	ON	OFF	OFF
XVGA: IBM 8514	ON	ON	OFF	OFF
XVGA: IBM 8515	ON	OFF	OFF	OFF

**NOTE:** Each bank of DIP switches (S1 and S2) for the 4-Port switch box and (S1, S2, S3, and S4) for the 8-port switch box must reflect the type of monitor configured on the server.

## Keyboard/Monitor/Mouse Switch Box Switch Settings.

### Mode/Function DIP Switches Board Number 2 S1 DIP Switch Default Settings

Switch Number	Function or Mode	Default Setting
1	Reserved	Enabled (ON)
2	Soft Switching Mode	Enabled (ON)
3	Keyboard Broadcasting Mode *	Disabled (OFF)
4	Mouse Broadcasting Mode *	Disabled (OFF)
5	Scan Mode	Enabled (ON)
6	Tiering Mode	Disabled (OFF) Slave
7	Not Used	
8	Not Used	

\* If enabled, this function should be used with extreme caution. Broadcast Mode sends commands to all attached servers.

## Memory

Boards/Modules	Speed	Assembly	Spare Part
4 MB SIMM	60 ns		139139-001
4 MB SIMM	70 ns	118665-004	141754-001
4 MB SIMM	80 ns	118665-002	118741-001
8 MB SIMM	60 ns		139140-001
8 MB SIMM	70 ns	129041-002	141755-001
8 MB SIMM	80 ns	129041-001	128954-001
16 MB SIMM	60 ns		139141-001
16 MB SIMM	70 ns	137143-003	149947-001
16 MB SIMM	80 ns	137143-002	139143-001
32 MB SIMM	60 ns		139142-001
32 MB SIMM	70 ns	139973-002	149948-001
32 MB SIMM	80 ns	139973-001	139949-001
64 MB SIMM	70 ns		188489-001
Memory Expansion Bd.		002563-001	139947-001

# Rack-Mountable ProLiant 4500R

<b>Controller Boards</b>	<b>Assembly</b>	<b>Spare Part</b>
4/16 TR PCI IBM UTP/STP Controller	N/A	199764-001
10 T, PCI UTP Controller	006064	242501-001
10/100 TX PCI UTP Controller	005139	169849-001
50-Pin to 68-Pin Adapter (standard to wide) *		189638-001
68-Pin to 50-Pin Adapter (wide to standard) *		189631-001
Fast SCSI-2 Controller	002682	142040-001
Fast-Wide SCSI-2/E Controller	003529	199634-001
NetFlex Controller	002709	142041-001
NetFlex Controller Token Ring Module	142035	142042-001
NetFlex-2 DualPort TR Controller	003104	142195-001
NetFlex-2 DualPort ENET Controller	003101	142151-001
NetFlex-2 ENET-TR Controller	003382	142222-001
NetFlex-2 TR Controller	003647	199521-001
NetFlex-3 100 Base-TX UTP Module	004183	169805-001
NetFlex-3 100 VG-AnyLAN UTP Module	004189	169803-001
NetFlex-3/E Controller	004162	169801-001
NetFlex-3/P Controller	004165	169811-003
SMART Array Controller*	002969	142130-001
	003596	181132-001
SMART-2/E Array Controller*	194771	194752-001
SMART-2DH Array Controller	295244	295243-001

\* Cable adapters are supported *only* between the controller and the internal SCSI cable. Adapters are NOT supported between the device and the cable. "SMART" controllers use adapter 189638-001. "SMART-2/E & 2/P" controllers use adapter 189631-001.

<b>Miscellaneous Internal *</b>	<b>Assembly</b>	<b>Spare Part</b>
2400 Baud LTE Modem <sup>1</sup>	001732-002	121250-001
2400 Baud Modem (DAA)	124611-001	127831-001
Hot-Pluggable Tray Adapter (Fast SCSI-2)	146729-003	146781-001
Hot-Pluggable Tray Adapter (Fast-Wide SCSI-2)	146729-004	199656-001
		Replaced w/ 199880-001
L3 Cache Daughter Board <sup>2</sup>		163808-001
SpeedPaq Modem	135698-001	199906-001

\* Refer to Modem Configuration Appendix for country-specific modem part numbers.

<sup>1</sup> North America.

<sup>2</sup> Works with 5/100 processor board assy. 005154 only.

<b>Miscellaneous External</b>	<b>Spare Part</b>
Compaq 4-Port, Keyboard/Mouse/Monitor Switch	242696-001
Compaq 8-Port, Keyboard/Mouse/Monitor Switch	242697-001
See "Rack Mountable ProLiant Storage System" section for information on:	
* External hot-pluggable hard drives	
* On-Line Recovery Server Option and cables	
* Stand-By Recovery Server Option and cables	
See "Rack Mountable SCSI Storage Expander" section for information on:	
* External non-pluggable hard drives	
* External tape drives	

# Rack-Mountable ProLiant 4500R

Hard Drives	Spare Part
1.05 GB Hot-Pluggable Fast SCSI-2	146717-001
1.05 GB Non Hot-Pluggable Fast SCSI-2	146799-001
1.6" Drive Tray, Fast-SCSI-2 Connector	146781-001
1.6" Drive Tray, Fast-Wide Connector	199656-001
	Replaced w/ 199880-001
1" Drive Tray, Fast-SCSI-2 Connector *	242593-001
1" Drive Tray, Fast-Wide Connector*	199880-001
1" Drive Tray, SCA Connector*	242801-001
2.1 GB Hot-Pluggable Fast-SCSI-2	199428-001
2.1 GB Hot-Pluggable FW SCSI-2	199643-001
	Replaced w/ 199878-001
2.1 GB Hot-Pluggable FW SCSI-2 1"	199878-001
2.1 GB Hot-Pluggable Wide Ultra 1" <sup>1</sup>	242603-001
2.1 GB Non Hot-Pluggable Fast-SCSI-2	142272-001
2.1 GB Non Hot-Pluggable FW SCSI-2	199644-001
2.1 GB Non Hot-Pluggable Wide Ultra 1" <sup>1</sup>	242604-001
4.3 GB Hot-Pluggable Fast-SCSI-2	199584-001
4.3 GB Hot-Pluggable FW SCSI-2	199598-001
4.3 GB Hot-Pluggable Wide Ultra 1" <sup>1</sup>	242622-001
4.3 GB Non Hot-Pluggable Fast-SCSI-2	199585-001
4.3 GB Non Hot-Pluggable FW SCSI-2	199599-001
4.3 GB Non Hot-Pluggable Wide Ultra 1" <sup>1</sup>	242606-001
9.1 GB Hot-Pluggable Wide SCSI 1.6" <sup>1</sup>	199888-001
9.1 GB Non Hot-Pluggable Fast-SCSI-2	199885-001
9.1 GB Non Hot-Pluggable Wide Ultra 1.6" <sup>1</sup>	199886-001

<sup>1</sup>Limited to Fast-Wide SCSI Bus Speeds.

\* Drive Tray Kits contain 1" and 1.6" covers without side-springs.

## 28.8k-bps Modem

Country	Assembly	Spare Part	RJ-11 Phone Cable
U.S.	223610-002	259214-002	127949-001

CD-ROM Drives	Spare Part
8X, IDE	295934-001
Caddy Load	133881-001
QuadSpeed Tray Load, Internal	184783-001
Tray Load, Internal	142223-201

Diskette Drives	Spare Part
1.2 MB	DISCONTINUED
1.44 MB (optional)	112565-001
1.44 MB (standard)	144207-201

# Rack-Mountable ProLiant 4500R

<b>Tape Drives</b>	<b>Spare Part</b>	<b>Tape Cartridge</b>	<b>Spare Part</b>
525 MB ACA	142073-001	525 MB QIC Cart.	119504-001
1.2 GB Tape Drive	199615-001	1.2 GB QIC Cart.	199625-001
2/4 GB DAT	142074-201	1.3 GB 60 M DDS1	131167-001
		2.0 GB 90 M DDS1	131148-001
		DDS1 Cleaning Cart.	131194-001
2/8 GB DAT Clam Gray	142074-001	1.3 GB 60 M DDS1	131167-001
		2.0 GB 90 M DDS1	131148-001
		DAT Cleaning Cart.	131194-001
2/8 GB DAT Beach Gray	142074-201	1.3 GB 60 M DDS1	131167-001
		2.0 GB 90 M DDS1	131148-001
		DDS1 Cleaning Cart.	131194-001
4/8 GB DAT	295163-001	4.0 GB 120M DDS2	199496-001
		DDS2 Cleaning Cart.	242618-001
4/16 GB TurboDAT Clam Gray	199464-001	4.0 GB 120M DDS2	199496-001
		DDS2 Cleaning Cart.	242618-001
4/16 GB TurboDAT Beach Gray	199464-201	4.0 GB 120M DDS2	199496-001
		DDS2 Cleaning Cart.	242618-001
10/20 Table Top DLT	199676-001	10/20 GB Data Cart.	199703-001
10/20 Internal DLT	199746-001	DLT Cleaning Cart.	199705-001
15/30 Table Top DLT	242469-001	15/30 GB Data Cart.	242467-001
15/30 Internal DLT	242468-001	DLT Cleaning Cart.	199705-001
35/70 Table Top DLT	242854-B21	35/70 GB Data Cart.	295394-001
35/70 Internal DLT	242853-B21	DLT Cleaning Cart.	199705-001
TurboDAT Autoloader (internal) Beach Gray	199466-201	4 Cartridge Magazine	199467-001
		12 Cartridge Magazine	199468-001
TurboDAT Autoloader (internal) Clam Gray	199466-001	4 Cartridge Magazine	199467-001
		12 Cartridge Magazine	199468-001

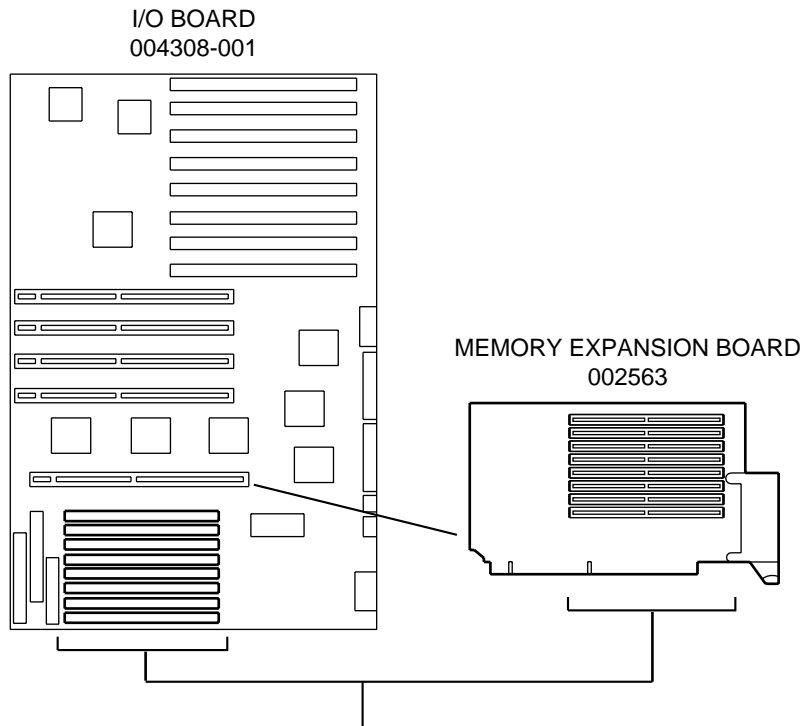
<b>Cables</b>	<b>Spare Part</b>
2 Channel Ethernet "Y" Cable	197134-001
Cable, Keyboard/Mouse/Monitor, SWB-CPU, 20'	187565-002
Cable, Keyboard/Mouse/Monitor, SWB-CPU, 40'	187565-003
Diskette Drive Signal Cable	165681-001
DualPort Ethernet Loopback (2 CH NIC)	142254-001
External 100-Pin to 50-Pin Cable	142159-001
External SCSI Signal Cable, 12'	146776-004
Internal Fast-Wide SCSI-2 Cable, 32"	189637-004
Internal SCSI 2-Device Cable w/ Terminator, 36"	165706-001
LED Cables	165680-001
Loop Back Cable, NetFlex	142054-001

<b>ROM Information</b>	<b>Spare Part</b>
Drive Backplane ROM	146705-001
Option ROMPaq	142207-001
System ROMPaq	143198-001

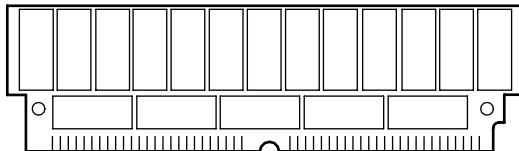
<b>Battery/Power Supply</b>	<b>Spare Part</b>
488 Watt Redundant Power Supply (option)	165628-001
Clock/Battery	149344-001
Power Supply	188407-001

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## Memory Upgrade Chart



SIMMS MUST BE ADDED IN SETS OF 4 OF THE SAME SIZE AND SPEED  
UP TO 512 MB ON THE SYSTEM BOARD AND  
UP TO 512 MB ON THE EXPANSION BOARD FOR  
UP TO 1.024 GIGABYTES TOTAL SYSTEM MEMORY



16-MB 70ns (4 x 4MB) - OPTION PN 149949-001  
16-MB 80ns (4 x 4MB) - OPTION PN 136816-001

32-MB 70ns (4 x 8MB) - OPTION PN 149912-001  
32-MB 80ns (4 x 8MB) - OPTION PN 136817-001

64-MB 70ns (4 x 16MB) - OPTION PN 149913-001  
64-MB 80ns (4 x 16MB) - OPTION PN 149341-001

128-MB 70ns (4 x 32MB) - OPTION PN 149914-001  
128-MB 80ns (4 x 32MB) - OPTION PN 139918-001

256-MB 70ns (4 x 64MB) - OPTION PN 188056-001

128-Bit Memory Expansion Board Option PN 188874-001