

Rack-Mountable ProLiant 1500R

System/Processor Boards	Assembly	Spare Part
P5/75 Processor Board w/ Processor	004506-001	169092-001
5/100 Processor Board w/o Processor*	004712-001	169174-001 DISCONTINUED
P54C/120 Processor Board w/o Processor	004712-102	169174-002
	004712-109	DISCONTINUED
P5/133 FlexSMP Board w/ Processor	004512-011	222925-001
System I/O Board, PCI	004341-001	169048-001
P5/166 FlexSMP Board w/ Processor	004512-013	222958-001
P6/200 Processor Board w/o Processor	006309-101	228461-001

SW2 Switch Settings (004506)

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

* Default.

ProLiant 1500R Configuration Codes

Model	Processor	Drive	Config. Code
1500R/75 M1	75 MHz	None	HMU1
1500R/100 M1	100 MHz	None	HMS1
1500R/120 M1	120 MHz	None	
1500R/133 M1	133 MHz	None	
1500R /166 M1	166 MHz	None	

Jumper Settings For SCSI-ID *

Device in bay #	SCSI ID **	PIN 3 ID2	PIN 2 ID1	PIN 1 ID0
6	6	ON	ON	OFF
5	5	ON	OFF	ON

* It is not necessary to set the SCSI ID jumpers on a replacement drive. The SCSI ID is set automatically by the backplane when the drive is installed.

** SCSI ID's for bays 0-4 are preset to 0-4 respectively. No two drives can have the same SCSI ID.

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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

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
VGA Monochrome	OFF	OFF	ON	OFF
VGA/SVGA	OFF	ON	OFF	OFF
SVGA – Compaq 430	ON	ON	OFF	ON
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.

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Microprocessors	Spare Part
5/75 Processor w/o Heat Sink, w/ Thermal Pad	211455-001
5/100 Processor w/o Heat Sink, w/ Thermal Pad	213113-001
5/120 Processor w/o Heat Sink, w/ Thermal Pad	213125-001
5/133 Processor w/o Heat Sink, w/ Thermal Pad	223311-001
5/166 Processor w/o Heat Sink, w/ Thermal Pad	235229-001
6/200 Processor w/o Heat Sink	221068-001
Heat Sink Kit for P5-133/166	222966-001

Memory Boards/Modules	Speed	Assembly	Spare Part
4 MB Memory Module	70 ns	118665-004	141754-001
4 MB Memory Module	60 ns	118665-003	139139-001
8 MB Memory Module	70 ns	129041-002	141755-001
8 MB Memory Module	60 ns	129041-003	139140-001
16 MB Memory Module	70 ns	137143-003	149947-001
16 MB Memory Module	60 ns	137143-001	139141-001
32 MB Memory Module	70 ns	139973-002	149948-001
32 MB Memory Module	60 ns	139973-003	139142-001
32 MB DIMM EDO/B	60 ns		281857-001
64 MB DIMM EDO/B	60 ns		281858-001
128 MB DIMM EDO/B	60 ns		281859-001

Controller Boards	Assembly	Spare Part
SMART Array Controller	002969	142130-001
	003596	181132-001
SMART-2/E Array Controller	194771	194752-001
SMART-2SL Array Controller	006888	242777-001
SMART-2/P Wide-Ultra Array Controller*	194799	194754-001
SMART-2/P Array Controller	194770	
Fast SCSI-2 Controller	002682	142040-001
Fast-Wide SCSI-2/E Controller	003529	199634-001
Fast-Wide SCSI-2/P Controller	003654-001	199633-001
Wide-Ultra Controller*	003654-002	272515-001
NetFlex Controller	002709	142041-001
NetFlex Controller Token Ring Module	142035	142042-001
NetFlex-2 ENET-TR Controller	003382	142222-001
NetFlex-2 DualPort ENET Controller	003101	142151-001
NetFlex-2 TR Controller	003647	199521-001
NetFlex-2 DualPort TR Controller	003104	142195-001
NetFlex-3/E Controller	004162	169801-001
NetFlex-3/P Controller	004165	169811-003
NetFlex-3 100 Base-TX UTP Module	004183	169805-001
NetFlex-3 100 VG-AnyLAN UTP Module	004189	169803-001
10/100 TX PCI UTP Controller	005139	169849-001
10 T, PCI UTP Controller	006064	242501-001
4/16 TR PCI IBM UTP/STP Controller	N/A	199764-001
50-Pin to 68-Pin Adapter (standard to wide) **		189638-001
68-Pin to 50-Pin Adapter (wide to standard) **		189631-001

* Ultra speeds not supported externally. Ultra drives will operate at Fast-Wide speeds.

** 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.

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Miscellaneous Internal *	Assembly	Spare Part
Hot-Pluggable Drive Backplane Board	004361-001	169054-001
SCSI Pass-Through Board	003418-001	142266-001
2400 Baud LTE Modem (ENG)	001768-002	121308-002
2400 Baud LTE Modem (DAA)	124611-001	127831-001
LTE Modem Engine	002449-001	199906-001
LTE DAA (U.S. & C)	135725-001	141959-001
LTE DAA (UK)	135725-031	141960-001
Hot-Pluggable Tray Adapter (Fast-WideSCSI-2)	146729-004	199656-001
Hot-Pluggable Tray Adapter (Fast SCSI-2)	146729-003	146781-001

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

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

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

¹ Requires Optional Wide-Ultra Controller and/or Cabling to use Wide Ultra Speeds.

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

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

28.8k-bps Modem				
Country	Assembly	Spare Part	RJ-11 Phone Cable	Option
U.S.	223610-002	259214-002	127949-001	259213-001

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

Tape Drives	Spare Part	Tape Cartridge	Spare Part
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
2/8 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
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
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
4/8 GB DAT	295163-001	4.0 GB 120M DDS2	199496-001
		DDS2 Cleaning Cart.	242618-001
TurboDAT Autoloader (internal) Clam Gray	199466-001	4 Cartridge Magazine	199467-001
		12 Cartridge Magazine	199468-001
TurboDAT Autoloader (internal) Beach Gray	199466-201	4 Cartridge Magazine	199467-001
		12 Cartridge Magazine	199468-001
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

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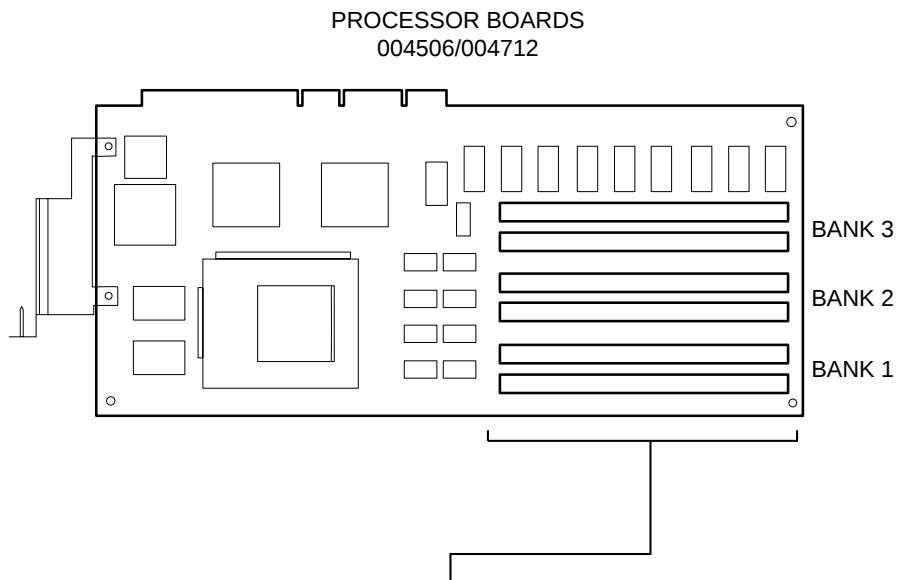
Cables	Spare Part
Internal SCSI Hard Drive Cable	148589-001
Internal SCSI-2 HDD Cable (two devices w/ termination)	165706-001
Internal Fast Wide SCSI-2 HDD Cable	189637-004
Thermistor w/ Cable (20")	169099-001
Diskette Drive Cable	190746-001
External SCSI-2 HDD Cable (12")	146776-004
External 100-Pin to 50-Pin Cable	142159-001
Loop Back Cable (2Ch NIC)	142254-001
Loop Back Cable (NetFlex)	142054-001
2-Channel Ethernet "Y" Cable	197134-001
Redundant Power Supply I/O Cable	187369-002
Daisy Chain Cable, 3'	146776-003
Cable, Keyboard/Mouse/Monitor, SWB-CPU, 20'	187565-002
Cable, Keyboard/Mouse/Monitor, SWB-CPU, 40'	187565-003

ROM Information	Spare Part
System ROMPaq	143198-001
Option ROMPaq	142207-001
Drive Backplane ROM	146705-001

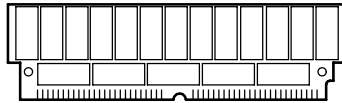
Power Supply/Battery	Spare Part
Battery Alk, 4.5v, 600ma, RTC	160274-001
Power Supply, 325 W, w/ Bracket	169052-001
488 Watt Redundant Power Supply	165628-001
Active SCSI Terminator Plug, 50-Pin	169178-001

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Memory Upgrade Chart



ADD MEMORY MODULES IN MATCHED PAIRS INTO BANKS 1,2 OR 3,
UP TO 208 MEGABYTES TOTAL SYSTEM MEMORY



8-MB 70ns(2 x 4MB) - OPTION PN 148188-001

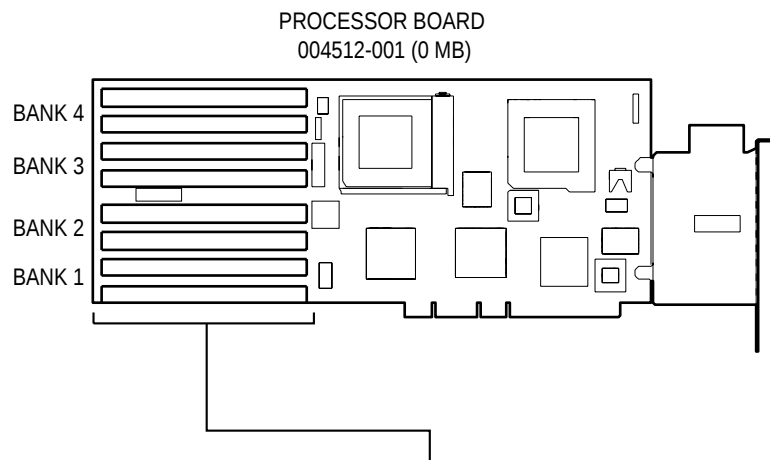
16-MB 70ns(2 x 8MB) - OPTION PN 148189-001

32-MB 70ns(2 x 16MB) - OPTION PN 148190-001

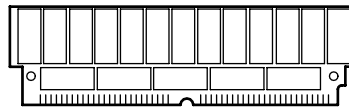
64-MB 70ns(2 x 32MB) - OPTION PN 148191-001

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Memory Upgrade Chart



ADD MEMORY MODULES IN MATCHED PAIRS INTO BANKS 1,2 3, OR 4
UP TO 256 MEGABYTES TOTAL SYSTEM MEMORY



8-MB 60ns(2 x 4MB) - OPTION PN 169168-001

16-MB 60ns(2 x 8MB) - OPTION PN 169169-001

32-MB 60ns(2 x 16MB) - OPTION PN 169170-001

64-MB 60ns(2 x 32MB) - OPTION PN 169171-001