

ProLiant 6500

System Boards	Assembly	Spare Part
Processor Board w/ Tray	008278-101 179670-001 179671-001	328843-001
Processor Board, P6 w/o Processor	005523-101	169291-001
System I/O Board	241839-001	169486-001

Processor Board SW1 – SW4 Bus/Core Frequency Ratio

Bus/Core Ratio*	S1	S2	S3	S4
1/2 Reserved	ON	ON	ON	ON
1/4 Reserved	ON	OFF	ON	ON
1/3 Default, 200 MHz Models	ON	ON	OFF	ON
1/5 Reserved	ON	OFF	OFF	ON
2/5 Reserved	ON	ON	ON	OFF
2/7 Reserved	ON	ON	OFF	OFF
2/9 Reserved	ON	OFF	ON	OFF
2/11 Reserved	ON	OFF	OFF	OFF
Reserved	OFF	X	X	X

*Processors on the same processor board MUST be installed in matched frequency.

SW6 – Bus Clock Frequency

Frequency	1	2	3
50 MHz	ON	ON	OFF
60 MHz	ON	OFF	ON
66.66 MHz Default	OFF	ON	ON

SW7 & SW9

	Add External Battery	Fan Speed
SW7 Battery	External	
SW9 System Fan Speed		Low, Default*

*When set to LOW, system fan controlled by temperature sensors and software.

PCI/EISA Expansion Board SW1 Switch Settings

SW	Function	Set to ON	Set to OFF
S1	VIDEO DISABLE	Disables integrated video controller	Default
S2	CONFIGURATION LOCK	Disables configuration changes	Default
S3	TOWER TO RACK CONVERSION	System installed in rack chassis	Default
S4	DISKETTE BOOT OVERRIDE	Disables system booting from the diskette drive	Default
S5	PASSWORD	Clears passwords	Default
S6	CLEAR NVRAM	Clears NVRAM	Default

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Jumper Settings for SCSI ID

SCSI ID	Bit 2	Bit 1	Bit 0
0	OFF	OFF	OFF
2	OFF	ON	OFF
2	OFF	OFF	ON
3	OFF	ON	ON
4	ON	OFF	OFF
5	ON	OFF	ON
6	ON	ON	OFF

Core Frequency Switch Settings (SW2 and SW3)

Processor (MHz)	S1	S2	S3	S4
400	ON	ON	OFF	ON
450	OFF	ON	OFF	ON
500	ON	ON	OFF	OFF

Configuration Code	System Board Spare Part
BX52	328843-001
BX56	328843-001
CP31	328843-001
CP41	328843-001
CP51	328843-001
CT62	328843-001

Microprocessors

Spare Part

400/100, 1 MB w/ Heat Sink	386980-001
400/100, 512K w/ Heat Sink	329839-001
450/100, 1 MB w/ Heat Sink	387093-001
450/100, 2 MB w/ Heat Sink	386981-001
500 MHz, 1 MB w/ Heat Sink	122636-001
500 MHz, 2 MB w/ Heat Sink	122637-001
500 MHz, 512 KB w/ Heat Sink	116313-001
686/200, 1 MB	296492-001
686/200, 512K	289749-001
Heat Sink w/ Thermal Pad	306397-001

Memory Boards/Modules

Speed

Assembly

Spare Part

Memory Board w/ Stiffener		304436-001	289745-001
Memory Expansion Board		008281-001	328703-001
16 MB EDO	60ns		289746-001
16 MB FP	60ns		219390-001
32 MB DIMM, ECC, EDO		228468-002	386978-001
32 MB EDO	60ns		281857-001
32 MB FP	60ns		219391-001
64 MB DIMM, ECC, EDO		228469-002	330739-001
64 MB EDO	60ns		281858-001
64 MB FP	60ns		219392-001
128 MB DIMM, ECC, EDO		228470-002	330740-001
128 MB EDO	60ns		281859-001
128 MB FP	60ns		219393-001
256 MB EDO	60ns		281860-001
256 MB DIMM, ECC, EDO		228471-002	330741-001

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Controller Boards	Assembly	Spare Part
10 T, PCI UTP Controller	006064	242501-001
10/100 TX PCI UTP Controller	005139	169849-001
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
Dual-Channel Wide-Ultra SCSI-3 Controller	N/A	295626-001
Fast Ethernet NIC, NC3131	009542-003	338478-001
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
NetFlex Controller	002709	142041-001
NetFlex Controller Token Ring Module	142035	142042-001
NetFlex-2 DualPort ENET Controller	003101	142151-001
NetFlex-2 DualPort TR Controller	003104	142195-001
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
PCI, Dual Port 10/100 NIC	006312-001	242560-001
PCI, Dual Port 10/100 TX	317459-001	317453-001
SMART Array Controller*	002969	142130-001
	003596	181132-001
SMART-2/E Array Controller*	194771	194752-001
SMART-2/P Wide-Ultra Array Controller*	194799	194754-001
SMART-2/P Array Controller	194770	
SMART-2DH Array Controller	295244	295243-001
Wide-Ultra Controller	003654-002	272515-001

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

**Cable adapters are supported *only* between the controller and 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.

Miscellaneous Internal	Assembly	Spare Part
Adapter, 50/68, FEM, SCSI	199618-001	189638-001
Backplane Board w/ Drive Cage	005514-001	169288-001
	179691-001	328833-001
Board, Hard Drive Duplex	006355-001	169487-001
Board, Hot-Plug PCI, LED Switch	008303-001	328835-001
Board, PCI, SW/LED	006361-001	169488-001
Drive Cage, LVD, 9 Drive Compatibility	382162-001	387088-001
Fan Controller Board	005517-001	169289-001
	009554-001	328838-001
Fan, Hot-Plug w/ Board	006558-001	241708-001
	169335-001	
IMD LCD Display Panel	169338-001	271930-001
	169338-002	
Optional, 10-Bay Drive Cage	304413-001	304483-001
Optional, 2-Bay Removable Media Cage w/ Backplane	304412-001	304482-001

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Miscellaneous Internal	Assembly	Spare Part
Power Backplane Board	169328-001	169290-001
	169328-002	328836-001
Power Converter, 40W	169316-001	169317-001
Rack Hardware Mounting Kit	304422-001	304429-001
Standard Peripheral Board	008284-001	328844-001
Terminator Board	179680-001	329271-001
Voltage Regulator Board	303990-001	328842-001

Miscellaneous External

See "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 "SCSI Storage Expander" section for information on:

- *External non-pluggable hard drives
- * External tape drives

Hard Drives	Assembly	Spare Part
1" Drive Tray, Fast-SCSI-2 Connector *		242593-001
1" Drive Tray, Fast-Wide Connector*		199880-001
1" Drive Tray, SCA Connector*		242801-001
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
2.1 GB Hot-Pluggable Fast-SCSI-2		199428-001
2.1 GB Hot-Pluggable Fast-Wide SCSI-2		199643-001
2.1 GB Hot-Pluggable Fast-Wide SCSI-2 1"		199878-001
2.1 GB Hot-Pluggable Wide-Ultra 1" ¹		242603-001
2.1 GB Non Hot-Pluggable Fast-SCSI-2		142272-001
2.1 GB Non Hot-Pluggable Fast-Wide SCSI-2		199644-001
2.1 GB Non Hot-Pluggable Wide-Ultra 1" ¹		242604-001
4.3 GB Hot-Pluggable Fast-SCSI-2		199584-001
4.3 GB Hot-Pluggable Fast-Wide SCSI-2		199598-001
4.3 GB Hot-Pluggable Wide-Ultra 1" ¹		242622-001
4.3 GB Hot-Pluggable Wide-Ultra 1" SCSI-3		304860-001
4.3 GB Non Hot-Pluggable Fast-SCSI-2		199585-001
4.3 GB Non Hot-Pluggable Fast-Wide SCSI-2		199599-001
4.3 GB Non Hot-Pluggable Wide-Ultra 1" ¹		242606-001
4.3 GB Wide-Ultra SCA, 10K	336365-001	336380-001
9.1 GB Hot-Pluggable Wide SCSI 1.6" ¹		199888-001
9.1 GB Hot-Pluggable Wide-Ultra 1.6"		304866-001
9.1 GB Non Hot-Pluggable Fast-SCSI-2		199885-001
9.1 GB Non Hot-Pluggable Wide-Ultra 1.6" ¹		199886-001
9.1 GB Hot-Plug Wide-Ultra SCSI-3	340852-035	336381-001

¹Requires 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.

CD-ROM Drives	Assembly	Spare Part
16X, IDE		278791-001
32X	179137-201	328707-001

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Diskette Drives	Assembly	Spare Part
1.44 MB 1/3 Height	141087-102	160788-201
1.44 MB (standard)		144207-201

Cables	Assembly	Spare Part
2 Channel Ethernet "Y" Cable		197134-001
Diskette Drive Signal Cable		143706-001
DLT Active Terminator		199715-001
DLT, 18", Daisy Chain (table top)		199713-001
DLT, 6', Standard to Centronix		199714-001
DLT, 6', Wide to Centronix		199780-001
DualPort Ethernet Loopback (2 CH NIC)		142254-001
External 100-Pin to 50-Pin Cable		142159-001
External SCSI Signal Cable, 6'		146776-001
Internal Fast-Wide SCSI-2 Cable, 23"		189637-003
Internal SCSI 2-Device Cable w/ Terminator, 36"		148728-001
Kit, Misc Power		304430-001
		328847-001
Kit, Misc Signal		304428-001
		328848-001
LED Cables		148585-001
Loop Back Cable		298793-001
Loop Back Cable, NetFlex		142054-001
Power Switch w/ Cable	169393-003	328841-001
Power Switch/Interlock w/ LED		241707-001
Serial Port Cable		171141-001

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 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
2/8 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
2/4 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 Beach Gray	199464-201	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
4/8 GB DAT	295163-001	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

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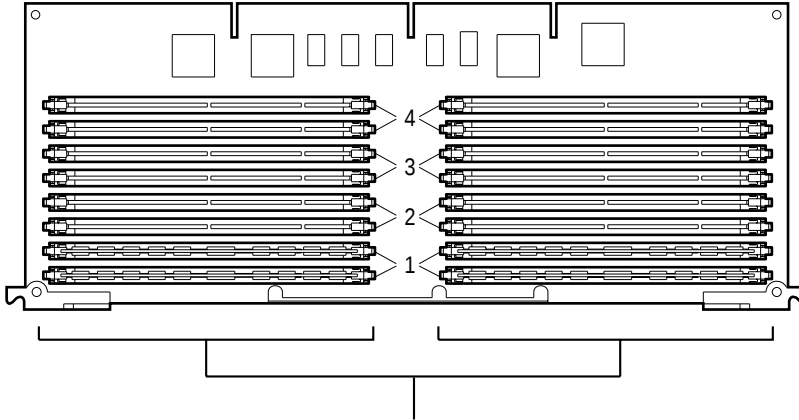
ROM Information	Spare Part
Drive Backplane ROM	146705-001
Option ROMPaq	142207-001
System ROMPaq	143198-001

Battery /Power Supply	Assembly	Spare Part
Battery Alk, 4.5v, 600ma, RTC		160274-001
Battery, Peripheral Board	334149-001	179322-001
Power Supply, 750W, HTPLG	169490-002	169286-001
	169282-001	

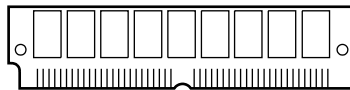
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Memory Upgrade Chart

MEMORY EXPANSION BOARD
Assembly 304436-001



A MAXIMUM OF 4.0 GB TOTAL MEMORY
A GROUP OF FOUR IDENTICAL DIMMS OF THE SAME SIZE
AND SPEED MUST BE INSTALLED IN EACH BANK



64-MB 60ns DIMMS, EDO - OPTION PN 241770-B21

128-MB 60ns DIMMS, EDO - OPTION PN 241771-B21

256-MB 60ns DIMMS, EDO - OPTION PN 241772-B21

512-MB 60ns DIMMS, EDO - OPTION PN 241773-B21

1024-MB 60ns DIMMS, EDO - OPTION PN 241774-B21

64-MB 60ns DIMMS, FASTPAGE - OPTION PN 219282-001

128-MB 60ns DIMMS, FASTPAGE - OPTION PN 219283-001

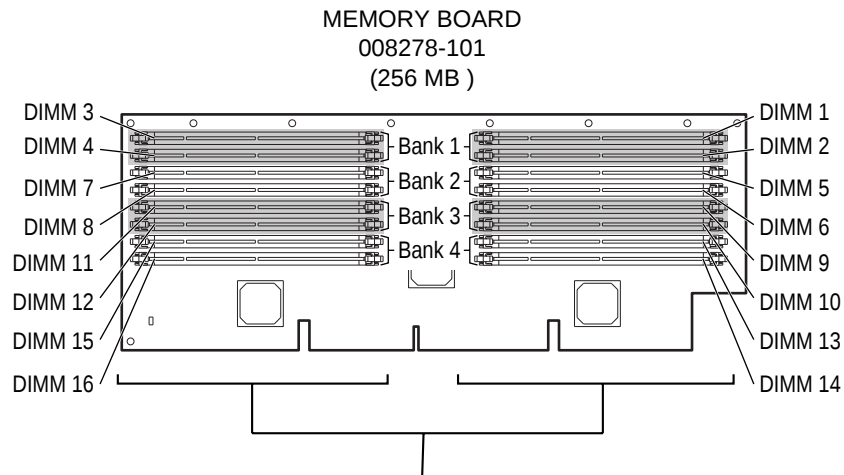
256-MB 60ns DIMMS, FASTPAGE - OPTION PN 219284-001

512-MB 60ns DIMMS, FASTPAGE - OPTION PN 219285-001

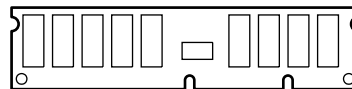
NOTE: Supports 60 ns or faster; EDO or Fastpage buffered;
gold connector; 4-K or 8-K refreshed DIMMS

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Memory Upgrade Chart



A MAXIMUM OF 4.0 GB TOTAL MEMORY
A GROUP OF FOUR IDENTICAL DIMMs (SAME
SIZE AND SPEED) MUST BE INSTALLED IN EACH BANK



64-MB EDO ECC DIMMs - OPTION PN 241770-B21
128-MB EDO ECC DIMMs - OPTION PN 241771-B21
256-MB EDO ECC DIMMs - OPTION PN 241772-B21
512-MB EDO ECC DIMMs - OPTION PN 241773-B21
1024-MB EDO ECC DIMMs - OPTION PN 241774-B21