

ProLiant 6000

Pentium Pro

System/Processor Boards	Assembly	Spare Part
System I/O Board, PCI-EISA, w/ Lever	006393-001	296280-001
686 Processor Board, w/ Lever	006396-001	186889-001

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System/Processor Boards	Assembly	Spare Part
Processor Board and Cage w/ Tray	312141-001	312256-001
I/O Terminator Board	009567-001 009567-002	312262-001
Processor Terminator Board	312307-001	312334-001
System I/O Board, PCI-EISA	007726-001	312258-001
Processor Board, Locking Lever		296899-001

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Processor Board SW1 – SW4 Bus/Core Frequency Ratio

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

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

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Processor Board SW1 – SW4 Bus/Core Frequency Ratio

Bus/Core Ratio*		S1	S2	S3	S4
1/3	300 MHz	ON	ON	OFF	ON
2/7	350 MHz	OFF	ON	OFF	ON
1/4	400 MHz	ON	ON	ON	OFF

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

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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

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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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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	MODEL ID		Default
S4	FLOPPY 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
6	ON	ON	OFF
5	ON	OFF	ON
4	ON	OFF	OFF
3	OFF	ON	ON
2	OFF	ON	OFF
1	OFF	OFF	ON
0	OFF	OFF	OFF

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Microprocessors

Spare Part

686/200, 512K	289749-001
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Microprocessors

Assembly

Spare Part

686/400, 1 MB	312166-001	312260-001
686/400, 512K w/ Heat Sink	326865-001	312259-001
450 MHz PII, 512K Cache and Heatpipe		112062-001
450 MHz PII, 1 MB Cache and Heatpipe		112063-001
450 MHz PII, 2 MB Cache and Heatpipe		112119-001
500 MHz PIII, 512K Cache and Heatpipe		122217-001
500 MHz PIII, 1 MB Cache and Heatpipe		122218-001
500 MHz PIII, 2 MB Cache and Heatpipe		122219-001

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Memory Boards/Modules	Speed	Assembly	Spare Part
Memory Board w/ Stiffener		304436-001	289745-001
16 MB EDO	60 ns		289746-001
32 MB EDO	60 ns		281857-001
64 MB EDO	60 ns		281858-001
128 MB EDO	60 ns		281859-001
256 MB EDO	60 ns		281860-001

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Memory Boards/Modules	Speed	Assembly	Spare Part
Memory Board w/ Stiffener		312072-001	312249-001
32 MB EDO, ECC	50 ns		386978-001
64 MB EDO, ECC	50 ns		330739-001
128 MB EDO, ECC	50 ns		330740-001
256 MB EDO, ECC	50 ns		330741-001
16 MB EDO	60 ns	228467-001	289746-001
32 MB EDO	60 ns	228468-001	281857-001
64 MB EDO	60 ns	228469-001	281858-001
128 MB EDO	60 ns	228470-001	281859-001
256 MB EDO	60 ns	228471-001	281860-001

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Controller Boards	Assembly	Spare Part
SMART-2DH Array Controller	295244	295243-001
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	
Fast-SCSI-2 Controller	002682	142040-001
Fast-Wide SCSI-2/E Controller	003529	199634-001
Dual-Channel Wide-Ultra SCSI-3 Controller	N/A	295626-001
Wide-Ultra Controller	003654-002	272515-001
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 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
PCI, Dual Port 10/100 NIC	006312-001	242560-001

* 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.

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Controller Boards	Assembly	Spare Part
PCI, Dual Port 10/100 NIC	006312-001	242560-001
SCSI, PCI	295571-001	295625-001
Fast Ethernet NIC		338478-001
PCI Interface Board, Hot-Pluggable		312336-001

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Miscellaneous Internal	Assembly	Spare Part
Safety Switch w/ Cable	273360-001	186885-001
Speaker	101062-005	186887-001
Drive Cage w/ Backplane	186900-001	186894-001
LCD Display Panel	169338-001	271930-001
Power Backplane Board	295886-001	289742-001
Fans, Twin, w/ Bracket	295803-001	289743-001
Fan, Redundant	296282-001	296898-001
Voltage Regulator	273308-001	296203-001
Rack Mounting Kit	273316-B21	296377-001
VRM, 48W, 12V, Redundant	283671-001	296851-001
Interlock Switch	296184-001	297000-001
Processor Power Module	303870-001	312257-001

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Miscellaneous Internal	Assembly	Spare Part
Drive Cage w/ Backplane	186900-001	186894-001
Power On/Standby Switch w/ Thermistor Cable	273360-002	312337-001
Standard Peripheral Board	007693-001	312335-001
Fan, Hot-Plug I/O	169335-001	241708-001
Fan, Internal Processor	312073-001	312248-001
Fan, External Processor, Hot-Plug	202244-001	312273-001
Hot-Plug I/O Fan Board w/ Speaker	007702-001	312344-001
Power Backplane Board	295886-001	289742-001
Front Bezel		186891-001
LCD Display Panel w/ Cable		271930-001

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Miscellaneous External

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

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

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Hard Drives	Spare Part
18.2 GB Hot-Pluggable Wide-Ultra 1.6" SCSI-3	313764-001
9.1 GB Non Hot-Pluggable Wide SCSI 1.6" ¹	199886-001
9.1 GB Hot-Pluggable Wide-Ultra 1.6" SCSI-3	304866-001
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" SCSI-3	304860-001
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 Fast-Wide SCSI-2	199598-001
4.3 GB Non Hot-Pluggable Fast-Wide 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 Fast-Wide SCSI-2 1"	199878-001
2.1 GB Hot-Pluggable Fast-Wide SCSI-2	199643-001
2.1 GB Non Hot-Pluggable Fast-Wide 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
1" Drive Tray, SCA Connector*	242801-001
1" Drive Tray, Fast-Wide Connector*	199880-001
1" Drive Tray, Fast-SCSI-2 Connector *	242593-001
1.6" Drive Tray, Fast-Wide Connector	199656-001
1.6" Drive Tray, Fast-SCSI-2 Connector	146781-001

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.

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Hard Drives	Spare Part
9 GB 1" Wide-Ultra, w/ Tray	313715-001

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CD-ROM Drives	Spare Part
QuadSpeed	184783-001
8X, IDE	295934-001

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CD-ROM Drives	Assembly	Spare Part
24X IDE CD-ROM	341012-001	328369-001
32X CD-ROM		328707-001

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Diskette Drives	Assembly	Spare Part
1.2 MB		Discontinued
1.44 MB (standard)	143746-003	144207-201
1.44 MB (optional)		112565-001

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Diskette Drives	Assembly	Spare Part
1.44 MB (standard)	143746-003	144207-201

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Cables	Spare Part
Internal Fast-Wide SCSI-2 Cable, 23"	189637-003
External SCSI Signal Cable, 6'	146776-001
Internal SCSI 2-device Cable w/ Terminator, 36"	148728-001
LED Cables	148585-001
Diskette Drive Signal Cable	143706-001
DualPort Ethernet Loopback (2 CH NIC)	142254-001
2 Channel Ethernet "Y" Cable	197134-001
External 100-pin to 50-pin Cable	142159-001
Loop Back Cable, NetFlex	142054-001
DLT, 6', Standard to Centronix	199714-001
DLT, 6', Wide to Centronix	199780-001
DLT, 18", Daisy Chain (Table Top)	199713-001
DLT Active Terminator	199715-001

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Cables	Spare Part
Kit, Misc. Power	312263-001
Kit, Misc. Signal	312264-001
ENET Loopback RJ45 Cable	317465-001

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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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ROM Information

Spare Part

System ROMPaq	143198-001
Option ROMPaq	142207-001
Drive Backplane ROM	146705-001

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Power Supply/Battery

Assembly

Spare Part

Battery Alk, 4.5v, 600ma, RTC		160274-001
Power Supply	169490-002	169286-001

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Power Supply/Battery

Assembly

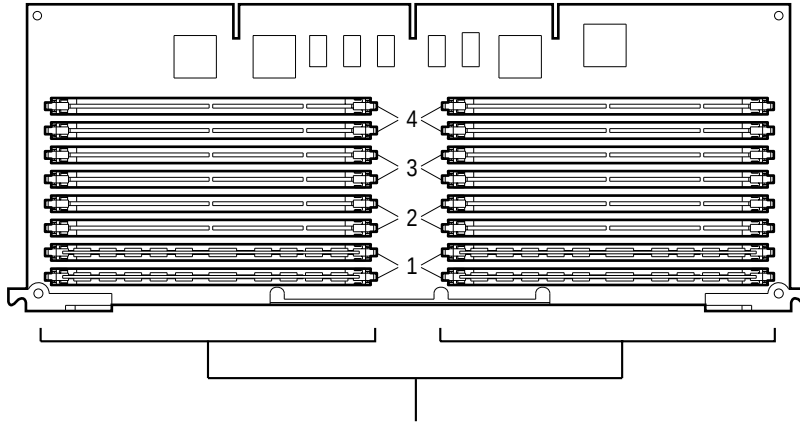
Spare Part

Power Supply 500/750W	169490-002	169286-001
Battery Replacement, 4.5V		160274-001

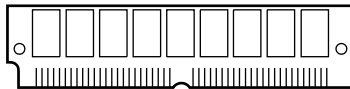
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Memory Upgrade Chart

MEMORY BOARD Assembly 304436-001
64MB or 128MB



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 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

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