

Rack-Mountable ProLiant 5000R

System Boards*	Assembly	Spare Part
System I/O Board, P6, PCI-EISA	004902-001	219287-001
System I/O Board, P6, PCI-EISA	004902-002	241810-001
P6 Processor Board w/o Processor	004893	219409-001

SW1 Switch Settings (004902, 004893)

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
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.

Microprocessors

Spare Part

P6/200, 256k w/ Heat Sink	221068-001
P6/200, 512k w/ Heat Sink	219407-001
P6/166, 512k w/ Heat Sink	219408-001

Memory Boards/Modules	Speed	Assembly	Spare Part
P6 Memory Board, FP		004905-001	219286-001
P6 Memory Board, FP		004905-002	219287-001
16 MB DIMM	60 ns		219390-001
32 MB DIMM	60 ns		219391-001
64 MB DIMM	60 ns		219392-001
128 MB DIMM	60 ns		219393-001

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28.8k-bps Modem

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

Controller Boards	Assembly	Spare Part
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
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
SMART-2DH Array Controller	295244	295243-001

* 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
Regulator Module	005003	219209-001
Processor Terminator Board, P6	005082	219388-001
Hot-Pluggable Tray Adapter (Fast-Wide SCSI-2)	146729-004	199656-001
Hot-Pluggable Tray Adapter (Fast SCSI-2)	146729-003	146781-001
Hot-Pluggable Drive Backplane Board, Wide SCSI	004839-001	169185-001
Pass-Through Board, Wide SCSI	004349-001	199612-001

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

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Miscellaneous External	Spare Part
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	
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
550 MB Hot-Pluggable Fast-SCSI-2	142038-001
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

* 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.

CD-ROM Drives	Spare Part
Quad-Speed	184783-001

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

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

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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

Cables	Spare Part
Internal Fast-Wide SCSI-2 Cable, 32"	189637-004
External SCSI Signal Cable, 12'	146776-001
Internal SCSI 2-device Cable w/ Terminator, 36"	165706-001
LED Cables	165680-001
Diskette Drive Signal Cable	165681-001
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
Cable, Keyboard/Mouse/Monitor, SWB-CPU, 20'	187565-002
Cable, Keyboard/Mouse/Monitor, SWB-CPU, 40'	187565-003

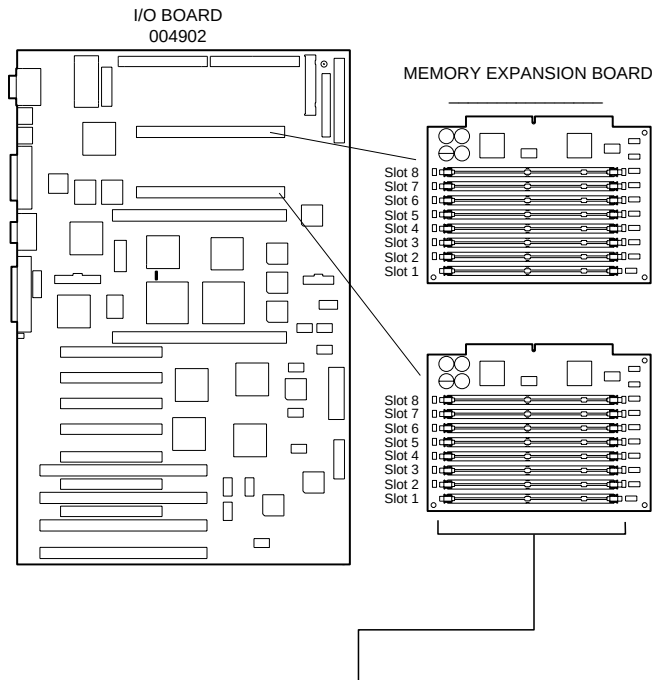
Power Supply/Battery	Spare Part
Battery Alk, 4.5v, 600ma, RTC	160274-001
Power Supply, 540W, RAQ	219447-001
488 Watt Redundant Power Supply (Option)	165628-001

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Options	Assembly	Spare Part
Remote Insight Board/PCI, w/ Video	007160-001	294040-001
Cable Kit, Misc.		294058-001
Battery Pack, 6-cell NiMH	294026-001	294061-001
Modem, 33.6-US	294049-001	294060-001
Modem, 33.6-PANEU	294049-002	294059-001
Modem, 33.6-JPN		317933-B22
Board, Serial w/ Cable	294039-001	294057-001
Remote Insight Board (EISA)	004367-001	199819-001

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MEMORY UPGRADE CHART



DIMMS MUST BE ADDED IN SETS OF 4 OF THE SAME SIZE AND SPEED
AND DIVIDED EVENLY BETWEEN BOTH MEMORY BOARDS
IN SLOTS 1 AND 2 ON EACH MEMORY BOARD
THEN SLOTS 3 AND 4 ON EACH MEMORY BOARD
THEN SLOTS 5 AND 6 ON EACH MEMORY BOARD
THEN SLOTS 7 AND 8 ON EACH MEMORY BOARD



64-MB 60ns Single Bank DIMMS (4 x 16 MB)
OPTION PN 219282-001

128-MB 60ns Double Bank DIMMS (4 x 32 MB)
OPTION PN 219283-001

256-MB 60ns Single Bank DIMMS (4 x 64 MB)
OPTION PN 219284-001

512-MB 60ns Double Bank DIMMS (4 x 128 MB)
OPTION PN 219285-001