

# ProLiant 7000

## Pentium Pro

| System /Processor Boards   | Assembly   | Spare Part |
|----------------------------|------------|------------|
| System I/O Board           | 007299-001 | 296279-001 |
| Processor Board with Lever | 006396-001 | 186889-001 |

## Pentium II Xeon

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

## Pentium Pro

### 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.

## Pentium II Xeon

### Processor Board SW1 – SW4 Bus/Core Frequency Ratio

| Bus/Core Ratio* |         | S1  | S2 | S3 | S4  |
|-----------------|---------|-----|----|----|-----|
|                 | 400 MHz | ON  | ON | ON | OFF |
|                 | 450 MHz | OFF | ON | ON | OFF |

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

## Pentium Pro

### 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.

# ProLiant 7000

## Pentium Pro

### 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    |

## Pentium II Xeon

### 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 floppy drive | Default    |
| S5 | PASSWORD             | Clears passwords                              | Default    |
| S6 | CLEAR NVRAM          | Clears NVRAM                                  | Default    |

## Pentium Pro

### 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   |

## Pentium Pro

### Microprocessors

### Spare Part

|                          |            |
|--------------------------|------------|
| 686/200, 512k            | 289749-001 |
| 686/200, 1 MB            | 296492-001 |
| Heat sink w/ Thermal Pad | 306397-001 |

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## Pentium II Xeon

| Microprocessors            | Assembly   | Spare Part |
|----------------------------|------------|------------|
| 686/400, 512k w/ Heat Sink | 326865-001 | 312259-001 |
| 686/400, 1 MB              | 312166-001 | 312260-001 |
| 686/400, 2 MB              | 312167-001 | 312261-001 |

## Pentium Pro & Pentium II Xeon

| Configuration Code | Spare Part |
|--------------------|------------|
| BWX1               | 312150-001 |
| BYD2               | 312216-001 |

## Pentium Pro

| Memory Boards/Modules     | Speed | Assembly   | Spare Part |
|---------------------------|-------|------------|------------|
| Memory Board w/ Stiffener |       | 304436-001 | 289745-001 |
| Processor Power Module    |       | 303870-001 | 312257-001 |
| 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 |

## Pentium II Xeon

| Memory Boards/Modules            | Speed | Assembly   | Spare Part |
|----------------------------------|-------|------------|------------|
| Memory Expansion Bd w/ Stiffener |       | 312072-001 | 312249-001 |
| 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 |

## Pentium Pro

| 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 |

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## Pentium Pro

| Controller Boards                              | Assembly   | Spare Part |
|------------------------------------------------|------------|------------|
| 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.

## Pentium II Xeon

| Controller Boards         | Assembly   | Spare Part |
|---------------------------|------------|------------|
| Smart Array 3100ES        | 295571-001 | 295625-001 |
| PCI, Dual Port 10/100 NIC | 006312-001 | 242560-001 |

## Pentium Pro

| Miscellaneous Internal                    | Assembly   | Spare Part |
|-------------------------------------------|------------|------------|
| Safety Switch w/ Cable                    | 273360-001 | 186885-001 |
| Speaker                                   | 101062-005 | 148590-001 |
| Drive Cage w/ Backplane                   | 186900-001 | 186894-001 |
| IMD LCD Display Panel                     | 169338-001 | 271930-001 |
| Power Backplane Board                     | 295886-001 | 289742-001 |
| Secondary Internal Fans, Twin, w/ Bracket | 295803-001 | 289743-001 |
| VRM, 48W, 12V, Redundant                  | 283671-001 | 296851-001 |
| Interlock Switch                          | 296184-001 | 297000-001 |
| Primary External Hot Plug Fan, Redundant  | 296283-002 | 306362-001 |
| Hot Plug PCI Switch/LED Board & Cable     | 306312-001 | 288448-001 |

## Pentium II Xeon

| 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 |
| Hot-Plug I/O Fan Board w/ Speaker           | 00702-001  | 312344-001 |
| Fan, Internal Processor                     | 312073-001 | 312248-001 |
| Fan, Hot-Plug External Processor            | 202244-001 | 312273-001 |
| PCI Hot-Plug Interface Board w/ Cables      |            | 312336-001 |
| Power Backplane Board                       | 295886-001 | 289742-001 |

# ProLiant 7000

## Pentium Pro & Pentium II Xeon

### 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

## Pentium Pro

### Hard Drives

### Spare Part

|                                                       |            |
|-------------------------------------------------------|------------|
| 18.2 GB Hot-Pluggable Wide Ultra 1.6" SCSI-3          | 313764-001 |
| 9.1 GB Non Hot-Pluggable Wide Ultra 1.6" <sup>1</sup> | 199886-001 |
| 9.1 GB Hot-Pluggable Wide Ultra 1.6" SCSI-3           | 304866-001 |
| 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 |
| 4.3 GB Hot-Pluggable Wide Ultra 1" SCSI-3             | 304860-001 |
| 4.3 GB Hot-Pluggable Wide Ultra 1" <sup>1</sup>       | 242622-001 |
| 4.3 GB Non Hot-Pluggable Wide Ultra 1" <sup>1</sup>   | 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" <sup>1</sup>       | 242603-001 |
| 2.1 GB Non Hot-Pluggable Wide Ultra 1" <sup>1</sup>   | 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 |
| 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 |

<sup>1</sup> 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.

## Pentium II Xeon

### Hard Drives

### Spare Part

|                             |            |
|-----------------------------|------------|
| 9 GB 1" Wide-Ultra, w/ Tray | 313715-001 |
|-----------------------------|------------|

## Pentium Pro

### CD-ROM Drives

### Spare Part

|          |            |
|----------|------------|
| 16X, IDE | 278791-001 |
|----------|------------|

## Pentium II Xeon

### CD-ROM Drives

### Spare Part

|          |            |
|----------|------------|
| 24X, IDE | 328369-001 |
|----------|------------|

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## Pentium Pro

### Diskette Drives

### Spare Part

|                    |            |
|--------------------|------------|
| 1.44 MB (standard) | 144207-201 |
|--------------------|------------|

## Pentium II Xeon

### Diskette Drives

### Spare Part

|                    |            |
|--------------------|------------|
| 1.44 MB (standard) | 144207-201 |
|--------------------|------------|

## Pentium Pro

### 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 |
| Misc Power Cable Kit                            | 186883-001 |
| Misc Signal Cable Kit                           | 186884-001 |

## Pentium II Xeon

### Cables

### Spare Part

|                          |            |
|--------------------------|------------|
| Misc Power Cable Kit     | 312263-001 |
| Misc Signal Cable Kit    | 312264-001 |
| ENET Loopback RJ45 Cable | 317465-001 |

## Pentium Pro

### 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 |

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## Pentium Pro

| <b>Tape Drives</b>    | <b>Spare Part</b> | <b>Tape Cartridge</b> | <b>Spare Part</b> |
|-----------------------|-------------------|-----------------------|-------------------|
| TurboDAT Autoloader   | 199466-001        | 4 Cartridge Magazine  | 199467-001        |
| (internal) Clam Gray  |                   | 12 Cartridge Magazine | 199468-001        |
| TurboDAT Autoloader   | 199466-201        | 4 Cartridge Magazine  | 199467-001        |
| (internal) Beach Gray |                   | 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        |

## Pentium Pro

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

## Pentium Pro

| <b>Power Supply/Battery</b>     | <b>Assembly</b> | <b>Spare Part</b> |
|---------------------------------|-----------------|-------------------|
| Battery Alk, 4.5v, 600ma, RTC   |                 | 160274-001        |
| Hot Plug Redundant Power Supply | 169490-002      | 169286-001        |

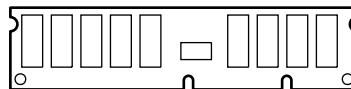
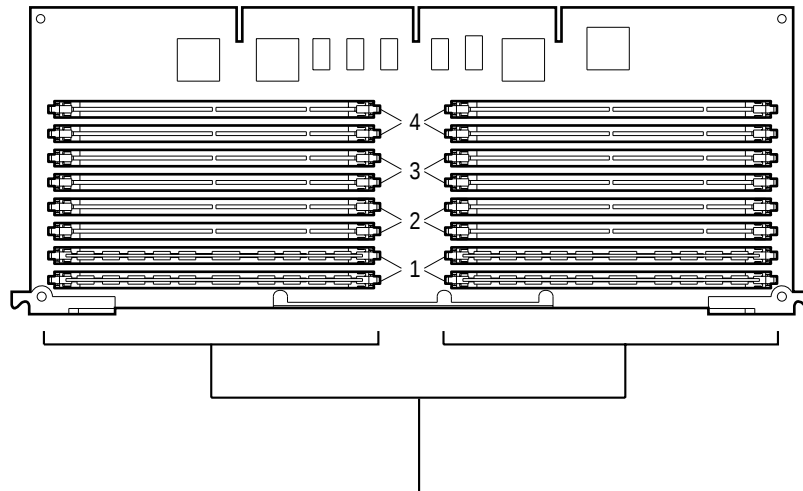
## Pentium II Xeon

| <b>Power Supply/Battery</b>     | <b>Assembly</b> | <b>Spare Part</b> |
|---------------------------------|-----------------|-------------------|
| Power Supply 500/750W           | 169490-001      | 169286-001        |
| Hot Plug Redundant Power Supply | 169490-002      | 169286-001        |
| Battery Alk, 4.5v, 600ma, RTC   |                 | 160274-001        |

# ProLiant 7000

## Memory Upgrade Chart

MEMORY EXPANSION BOARD  
Assembly 304436-001



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