

# QUICKSPECS

Compaq ProLiant 5000R

## MODELS

**ProLiant 5000R 6/166  
with 512K L2 cache**

Model 1  
219450-001

**ProLiant 5000R 6/200  
with 256K L2 cache**

Model 1  
219250-001

**ProLiant 5000R 6/200  
with 512K L2 cache**

Model 1X  
221050-001

Model 2  
221050-002

## STANDARD FEATURES

### Processor

166- or 200-MHz Intel Pentium® Pro processor with optional redundant Processor Power Modules; one processor standard (two processors standard on Model 2). Support for up to four processors in a symmetric multiprocessing environment

### Memory

Model 1: 64 MB of ECC memory  
Model 1X and Model 2: 128 MB of ECC memory  
All models expandable to 4 GB using industry-standard DIMMs

### Cache Memory

Model 1 (219250-001): 256-KB high-speed 4-way set associative per processor  
Model 1 (219450-001), Model 1X (221050-001) and Models 2 (219450-002) (221050-002):  
512 KB high-speed 4-way set associative per processor  
1-MB cache processor kit (289726-B21) available

### Form Factor

19-inch industry-standard rack-mountable form factor 7U (12.25 in) high

### Architecture

ProLiant 5000 System Architecture

### Processor Slots

Two processor slots (each slot holds one board with two processor sockets)  
Model 1: one processor board  
Model 1X and Model 2: two processor boards

### Expansion Slots

Up to seven PCI slots and three EISA slots (eight total slots; two shared) on two PCI buses; one PCI slot is occupied by network interface controller; additional PCI slot occupied by SMART-2 Array Controller on array models

### Network Controller

Netelligent 10/100 TX PCI UTP Controller

### Storage Controllers

Integrated 32-Bit Fast-Wide SCSI-2/E Controller

### Storage and Expansion

Five hot-pluggable drive bays

### Maximum Storage

Internal: 91 GB (with 18.2-GB drives)  
External: 1.5 TB (with 18.2-GB drives)

### Interfaces

Internal and external Fast-Wide SCSI-2, network, parallel, two serial, graphics, keyboard, mouse

### Graphics

Integrated 1024 x 768, 16-color non-interlaced

### Diskette Drive and CD-ROM Drive

1.44-MB diskette drive and Internal  
8X CD-ROM Drive

### Hard Drives

Optional

### Manageability

Compaq Insight Manager  
Compaq Remote Insight Board (optional)  
Automatic Server Recovery-2 (ASR-2)  
Server Health Logging  
Revision History Table  
Automatic Revision Tracking  
Drive Parameter Tracking and Dynamic Sector Repairing (with SMART-2 Array controller)  
Recovery Server Option  
Off-Line Backup Processor  
Pre-Failure Warranty (now covers Pentium Pro processors as well as hard drives and memory)

### Security

MultiLock security features; power-on password; keyboard password; diskette drive control; diskette boot control; network server mode; security provision; parallel and serial interface control; administrator's password; disk configuration lock

### Software

SmartStart, the server configuration and software integration tool from Compaq, is shipped standard with Compaq ProLiant servers. Both SmartStart and Compaq Insight Manager are included in the setup and management pack.

### Power Supply

488 watts (at 120V)/540 watts (at 208V)  
Redundant Power Supply (RPS) upgrade available

### Service and Support

Compaq Services provides a wide range of service offerings including a three-year limited warranty<sup>1</sup> fully supported by a worldwide network of resellers and service providers; lifetime toll-free 7 x 24 hardware technical phone support; Pre-Failure Warranty coverage of hard drives, memory and Pentium Pro processor. Disaster recovery services are available through partnership with Comdisco.

**OPTIONS****Processor**

Pentium Pro 200/256K Kit	228411-001
Pentium Pro 500/600/512K Kit	273315-B21
Pentium Pro 166/512K Kit	219421-001
ProLiant 5000 Dual Pentium Pro Processor Board <sup>2</sup>	219420-001
Redundant Processor Power Module	221058-001

**Memory**

64-MB Memory Expansion Kit (4 x 16-MB FP DIMMs)	219282-001
128-MB Memory Expansion Kit (4 x 32-MB FP DIMMs)	219283-001
256-MB Memory Expansion Kit (4 x 64-MB FP DIMMs)	219284-001
512-MB Memory Expansion Kit (4 x 128-MB FP DIMMs)	219285-001
1024-MB Memory Expansion Kit (4 x 256-MB, Buffered EDO DIMMs)	241774-B21
FP/EDO Memory Board Conversion Kit <sup>3</sup>	219481-B21

**Monitors**

V55 Color	308007-001
V75 Color	307710-001
P50 Color	264200-001
P75 Color	307806-001

**Hard Drives/CD-ROM****Drives/Diskette Drive**

2.1-GB Pluggable Wide-Ultra SCSI-3 Drive	242583-001
4.3-GB Pluggable Wide-Ultra SCSI-3 Drive	272577-001
4.3-GB Pluggable Wide-Ultra SCSI-3 10,000 rpm <sup>4</sup> Drive	304859-B21
9.1-GB Pluggable Wide-Ultra SCSI-3 Drive (1.6")	199882-001
9.1-GB Pluggable Wide-Ultra SCSI-3 Drive (1")	313706-B21
9.1-GB Pluggable Wide-Ultra SCSI-3 10,000 rpm <sup>4</sup> Drive	304865-B21
18.2-GB Pluggable Wide-Ultra SCSI-3 Drive	313756-B21
Internal 8X CD-ROM Drive (IDE)	295888-001
Internal 24X Max <sup>5</sup> CD-ROM Drive	295545-B21
1.44-Megabyte Diskette Drive (Third Height)	294164-B21

**Tape Drives**

2/4-GB DAT Drive	142019-001
4/8-GB DAT Drive	295353-B21
4/8-GB SLR Drive	295480-B21
Internal 35/70-GB DLT Drive	242520-B21
External 35/70-GB DLT Drive	242521-B21
Internal 15/30-GB DLT Drive	242456-001
12/24-GB DAT Drive	295513-B21
External 15/30-GB DLT Drive	242457-001
Internal TurboDAT AutoLoader <sup>6</sup>	142183-001
DLT Tape Array II Model 3570-4 no software	295165-001
DLT Library 15 Cartridge Model 1530-1	242403-B21

**DLT Libraries<sup>7</sup>**

15/30 DLT Library Ready Drive	295166-B21
DLT Library Tabletop Conversion Kit <sup>8</sup>	295162-B21
35/70 DLT Library Ready Drive	295557-B21
DLT Library 15 Cartridge <sup>8</sup> Model 3570-1	295555-001
DLT Library 15 Cartridge <sup>8</sup> Model 3570-2	295555-B31
DLT Library Magazine with 5 1530-GB Tapes	295555-002
DLT Library Magazine with 5 3570-GB Tapes	295555-B32
	242898-B21
	295168-B21

**Storage Controllers**

SMART-2DH Array Controller	295242-B21
SMART-2SL Array Controller	242776-B21
SMART-2/E Array Controller	194751-001
Wide-Ultra SCSI-3 Controllers	272514-001
32 Bit Fast-Wide SCSI-2/E Controller	142290-001
Dual Channel Wide-Ultra SCSI-3 Controller <sup>9</sup>	295554-B21

**Required Cabling**

For required cabling information refer to Compaq Web Site <http://www.compaq.com/products/servers/proliant5000r>

**Cables/ Cable Option Kit**

External Standard-to-Wide SCSI-2 Cable (6') <sup>10</sup>	189632-002
External Standard-to-Wide SCSI-2 Cable (12')	189632-003
Daisy Chain Cable <sup>11</sup>	199712-001
VHDCI 68-pin to standard 68-pin, 6' cable <sup>9</sup>	295644-B21
VHDCI 68-pin to standard 68-pin, 12' cable <sup>9</sup>	295645-B21

**OPTIONS** (cont'd)**Cables/ Cable Option Kit** (cont'd)

VHDCI 68-pin to standard 50-pin, 6' cable <sup>9</sup>	295646-B21
VHDCI 68-pin to standard 50-pin, 12' cable <sup>9</sup>	295657-B21
Wide-to-Narrow Adapter Option Kit	212055-001

**External Storage**

Rack-Mountable ProLiant Storage System Model/F1	272800-001
Rack-Mountable ProLiant Storage System Model/F2	272800-002
Rack-Mountable ProLiant Storage System Model/U1	304100-B21
Rack-Mountable ProLiant Storage System Model/U2	304100-B22
ProLiant Fast-Wide Duplexing Option	199614-001
Rack-Mountable SCSI Storage Expander	165620-001
CD-Storage System (rack)	306520-B21

**Server Recovery**

Recovery Server Option	213817-001
Recovery Server Option/F	272829-001

**Rack**

7122 Rack (22U)	163747-001
4136 Rack (36U)	303656-001
7142 Rack (42U)	165753-001

**Rack Options**

Monitor Utility Shelf	303606-B21
Keyboard Drawer Kit	303607-B21
Rack Internal Trackball Keyboard	185152-001
Keyboard/Monitor/Mouse Switch Box (4-Port)/1U	242694-001
Keyboard/Monitor/Mouse Switch Box (8-Port)/1U	242695-001
Keyboard/Monitor/Mouse Extension Cables	169989-001
Switch Box Connector Kit/1U	242691-001
Rack Blanking Panel Kit (15U)	169940-001

**Rack Options**

Rack Coupling Kit (for 42U Rack)	165664-001
Rack Sidewall Kit (for 42U Rack)	165652-001
Rack Stabilizing Feet (one kit needed for stand-alone 42U Rack)	189907-001
CPU to Switch Cable, 9'	165638-001
CPU to Switch Cable, 20'	165638-002
CPU to Switch Cable, 40'	165638-003

**Communications**

Serial/Parallel Interface Board	108406-002
Netelligent 100 FDDI PCI SAS Fiber-MIC Controller	287728-001
Netelligent 100 FDDI PCI DAS Fiber-SC Controller	242509-001
Netelligent 100 FDDI PCI SAS UTP Controller	242507-001
Netelligent 100 FDDI PCI DAS UTP Controller	242511-001
Netelligent 100 FDDI PCI SAS Fiber-SC Controller	242505-001
NetFlex-3/P Controller	
100Base-TX UTP Module <sup>12</sup>	169804-001
100VG-AnyLAN UTP Module <sup>12</sup>	169802-001
100Base-FX Module <sup>12</sup>	267657-001
Netelligent 10 T/2 PCI UTP/Coax Controller	292856-B21
Netelligent 10 T PCI UTP Controller	242500-001
Netelligent Dual 10/100 TX PCI UTP	242559-001
Netelligent 10/100 TX PCI UTP Controller	169845-001
Netelligent 16/4 TR PCI IBM UTP/STP Controller	301206-B21
Netelligent 4/16 TR PCI UTP/STP Controller	268009-001
Compaq 336 ISA Fax Modem	259213-002
Compaq Netelligent 56K ISA Fax Modem	294900-001
<b>Uninterruptible Power Supply</b>	
UPS Model R3000	242705-001
UPS Model R3000h	242705-002
UPS Model R3000j	242705-291
UPS Model R1500 <sup>13</sup>	242704-001
UPS Model R1500h <sup>13</sup>	242704-002
Multi Server UPS Card	242755-001
Scalable UPS Card	242756-001

**OPTIONS** (cont'd)**Other**

ProLiant RPS Upgrade (tower)	163837-001
ProLiant Storage System RPS Upgrade	137889-001
ProLiant 5000 Tower-to-Rack Conversion Kit	186058-001
Compaq Remote Insight Board	199748-001
ProLiant Storage System/F or /U Redundant Power Supply	224206-001

<sup>1</sup> Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.

<sup>2</sup> Standard in two-processor models.

<sup>3</sup> Upgrade of the 1024-MB Memory Expansion Kit requires the FP/EDO Memory Board Conversion Kit (Part #219481-B21) in systems with serial number date code below X706 XXXX XXXX.

<sup>4</sup> For complete compatibility information, refer to the Compaq SCSI Hard Drive Compatibility table located at <http://www.compaq.com/products/servers/storage>. Using hard drives in unsupported configurations will result in voiding of the warranty and could result in damage to the drive and/or loss of data.

<sup>5</sup> Data transfer rate will vary from 150 KB/s to 3600 KB/s.

<sup>6</sup> Rack Door will not close if installed into cpu or rackmount SCSI Storage Expander.

<sup>7</sup> Anticipated performance of the DLT Library should be verified by using the Compaq Backup Configuration Tool, downloadable from the Compaq website at <http://www.compaq.com/products/servers/storage/cheyennetool.html>, and with the DLT Library Performance Whitepaper ECG046/0298.

<sup>8</sup> The DLT 15 Cartridge Library Model 1530-1 (Part #242403-B21) or Model 3570 (Part #295555-001/002/B32/291) can be mounted in a Compaq rack. To use any model of the library on a tabletop, the customer would purchase one of the Library Models listed above and would also order the Tabletop Conversion Kit (Part #295162-B21) to provide metal top and side covers. Refer to the Compaq DLT Libraries QuickSpec for details. DLT Library Model 1530-1 (3570-1/-2) includes one 15/30 DLT data cartridge (one 35/70 DLT data cartridge) and three empty 5-cartridge magazines. WW 242403-B21 (1530-1 drive) includes U.S. power cord US 295555-001/-002 (1 drive/2 drive) includes U.S. power cord, Int'l -B31/B32 (1 drive/2 drive) CTO power cord for country ordering the unit.

<sup>9</sup> Required to connect external VHDCI 50 or 68 pin device.

<sup>10</sup> External Standard-to-Wide SCSI-2 Cable (6') needed when connecting external Autoloader to Fast-Wide SCSI-2 or Wide-Ultra SCSI-3 Controller.

<sup>11</sup> External Daisy Chain Cables needed only when connecting two older external drives.

<sup>12</sup> Available only on NetFlex-3.

<sup>13</sup> Models not available in North America.