

# QUICKSPECS

Compaq ProLiant 1600R

## MODELS

**ProLiant 1600R 6/266**  
Model 1  
149040-001

**ProLiant 1600R 6/300**  
Model 1  
149090-001

## STANDARD FEATURES

### Processor

266- and 300-MHz Intel Pentium® II processor

### Upgradability

Upgradable to dual processing

### Form Factor

5U Rack

### Memory

64 MB of EDO ECC memory expandable to 512 MB using industry-standard buffered EDO ECC DIMMs

### Cache Memory

512-KB second level ECC cache

### Expansion Slots

Two PCI slots and four shared PCI/EISA slots (six total slots)

### Network Controller

Compaq Netelligent 10/100 TX PCI UTP Controller (embedded) on the PCI local bus

### Storage Controllers

Integrated Dual Channel Wide-Ultra SCSI-3 Controller

### Storage and Expansion

Four removable media bays: one 1.44-MB diskette drive, one internal 16X Max<sup>1</sup> CD-ROM Drive IDE and two available 5.25-inch removable media bays. Capacity for 3 x 1.6-inch or 3 x 1.0-inch hot plug hard drives

### Maximum Storage

Internal: 54.6 GB (3 x 18.2-GB hot-plug hard drives)  
81.9 GB Maximum Storage<sup>2</sup>

External: 1.15 TB  
(7 x 18.2 GB) x 9 = 1.15 TB

### External Interfaces

Wide-Ultra SCSI-3, network (RJ-45 and AUI), parallel, two serial ports, graphics, keyboard and pointing device (mouse)

### Graphics

Integrated 1024 x 768, 256-color non-interlaced on PCI local bus (1 MB video memory)

### Diskette Drive and CD-ROM Drive

1.44-MB diskette drive and Internal 16X Max<sup>1</sup> CD-ROM Drive IDE

### Manageability

Compaq Insight Manager  
Compaq Remote Insight Board (optional)  
Automatic Server Recovery-2 (ASR-2)  
Integrated Remote Console (IRC)  
Hardware Remote Console  
Full Remote Server Reboot Capability  
Reset and Failure Sequence Replay  
Host Hardware Independent  
Operating System Independent  
Communication is out-of-Band  
Integrated Management Display (IMD) optional  
Integrated Management Log  
Server Health Logging  
Revision History Table  
Automatic Revision Tracking  
Drive Parameter Tracking (with SMART-2 controller)  
Dynamic Sector Repairing (with SMART-2 controller)  
Recovery Server Option (optional)  
Off-Line Backup Processor  
Pre-Failure Warranty (now covers Pentium II processors as well as hard drives and memory)

### Security

MultiLock security features; power-on password; keyboard password; diskette drive control; diskette boot control; QuickLock, QuickBlank, Network Server Mode; 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

325 watts-CE Mark Compliant  
Hot-Pluggable Redundant Power Supply (optional)

### Service and Support

Compaq Services provides a wide range of service offerings including a three-year limited warranty<sup>3</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 processor. Disaster recovery services are available through partnership with Comdisco.

**OPTIONS****Processor**

6/266 Pentium II 512K Processor	149027-B21
Option Kit	
6/300 Pentium II 512K Processor	298047-B21
Option Kit	

**Drive Cage**

Hot-Plug Drive Cage (5 x 1")	271912-001
Option Kit	
Duplexing Drive Cage Option Kit	264368-001

**Memory**

32-MB Memory Kit (2 x 16-MB buffered EDO DIMMs)	149023-B21
64-MB Memory Kit (2 x 32-MB buffered EDO DIMMs)	149024-B21
128-MB Memory Kit (2 x 64-MB buffered EDO DIMMs)	149025-B21
256-MB Memory Kit (2 x 128-MB buffered EDO DIMMs)	149026-B21

**Monitors**

V55 Color	308007-001
V75 Color	255606-001
P50 Color	264200-001
P75 Color	255650-001

**LCD**

Integrated Management Display	264377-B22
Option Kit (16 x 4 Character LCD)	

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

2.1-GB Pluggable Wide-Ultra SCSI-3 Hard Drive	242583-001
4.3-GB Pluggable Wide-Ultra SCSI-3 10,000 rpm <sup>4</sup> Hard Drives	304859-B21
4.3-GB Pluggable Wide-Ultra SCSI-3 Hard Drive	272577-001
9.1-GB Pluggable Wide-Ultra SCSI-3 10,000 rpm <sup>4</sup> Hard Drives	304865-B21
9.1-GB Pluggable Wide-Ultra SCSI-3 Hard Drive (1.6")	199882-001
9.1-GB Pluggable Wide-Ultra SCSI-3 Hard Drive (1")	313706-B21
18.2-GB Pluggable Wide-Ultra SCSI-3 Hard Drive	313756-B21
1.44-Megabyte Diskette Drive (Third Height)	294164-B21
Pluggable Wide Drive Tray Upgrade	199875-001
Pluggable Drive Tray Upgrade	272564-001
8X CD-ROM Drive (IDE)	295888-001
Internal 24X Max <sup>5</sup> CD-ROM Drive	295545-B21

**Tape Drives**

2/4-GB DAT Drive	142019-001
4/8-GB DAT Drive	295353-B21
4/8-GB SLR Drive	295480-B21
12/24-GB DAT Drive	295513-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
Internal TurboDAT AutoLoader <sup>6</sup>	142183-001
External TurboDAT Autoloader	142187-001

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

DLT Tape Array Model 0	199860-001
DLT Tape Array II Model 3570-4 (US) no software	295165-001
DLT Library 15 Cartridge <sup>8</sup> Model 1530-1	242403-B21
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
DLT Library Magazine with 5 1530-GB Tapes	242898-B21
DLT Library Magazine with 5 3570-GB Tapes	295168-B21

**Storage Controllers**

SMART-2SL Array Controller	242776-B21
SMART-2DH Array Controller	294242-B21
Wide-Ultra SCSI-3 Controller	272514-001
Dual Channel Wide-Ultra SCSI-3 Controller <sup>9</sup>	295554-B21

**Required Cabling**

For required cabling information refer to Compaq website <http://www.compaq.com/products/servers/proliant1600r>

**Server Recovery**

Recovery Server Option/U	304117-B21
Recovery Server Options/F	272829-001

**OPTIONS** (cont'd)**External Storage**

Rack-Mountable SCSI Storage Expander	165620-001
Rack-Mountable ProLiant Storage System Model/F1 (for use with pluggable hard drives)	272800-001
Rack-Mountable ProLiant Storage System Model/F2 (for use with pluggable hard drives)	272800-002
Rack-Mountable ProLiant Storage System Model/U1	304110-B21
Rack-Mountable ProLiant Storage System Model/U2	304110-B22
CD-Storage System (rack)	306250-B21

**Racks**

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

**Rack Options**

Rack Internal Trackball Keyboard	185152-001
Rack External Keyboard	187344-001
Monitor/Utility Shelf Kit	303606-B21
Keyboard Drawer	303607-B21
Keyboard/Monitor/Mouse Switch Box (4-Port)/1U	242694-001
Keyboard/Monitor/Mouse Switch Box (8-Port)/1U	242695-001
CPU to Switch Cable, 9'	165638-001
CPU to Switch Cable, 20'	165638-002
CPU to Switch Cable, 40'	165638-003
Keyboard/Monitor/Mouse Extension Cables	169989-001
Switch Box Connector Kit /1U	242691-001
Rack Blanking Panel Kit (15U)	169940-001
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
Rack Coupling Kit (for 36U Rack)	303657-B21
Rack Sidewall Kit (for 36U Rack)	303658-B21
Rack Stabilizing Feet (one kit needed for stand-alone 36U Rack)	303659-B21
Netelligent Cable Management Kit	292407-B21
Netelligent Recessed Rail Management Kit	292406-B21

**Communications**

Serial/Parallel Interface Board	108406-002
Netelligent 100 FDDI PCI SAS Fiber-SC Controller	242505-001
Netelligent 100 FDDI PCI SAS Fiber-MIC Controller	287728-001

**Communications** (cont'd)

Netelligent 100 FDDI PCI DAS Fiber-SC Controller	242509-001
Netelligent 100 FDDI PCI DAS UTP Controller	242507-001
Netelligent 100 FDDI PCI DAS UTP Controller	242511-001
Netelligent 100 FDDI EISA SAS Fiber-MIC Controller	267413-001
Netelligent 100 FDDI EISA DAS Fiber-MIC Controller	267415-001
Netelligent FDDI EISA SAS UTP Controller	267414-001
Netelligent FDDI EISA DAS UTP Controller	267416-001
NetFlex-3/P Controller	
100Base-TX UTP Module <sup>10</sup>	169804-001
100VG-AnyLAN UTP Module <sup>10</sup>	169802-001
100Base-FX Module <sup>10</sup>	267657-001
Netelligent 10/100 TX PCI UTP Controller	169845-001
Netelligent 10 T PCI UTP Controller	242500-001
Netelligent 10 T/2 PCI UTP/Coax Controller	292856-B21
Netelligent 16/4 TR PCI IBM UTP/STP Controller	301206-B21
Netelligent 4/16 TR PCI UTP/STP Controller	268009-001
Netelligent Dual 10/100 TX PCI UTP Controller	242559-001
AUI to BNC Transceiver	192732-001
Compaq 336 ISA Fax Modem	259213-002
Compaq Netelligent 56K ISA Fax Modem	294900-001

**Uninterruptible Power Supply**

Multi-Server UPS Card	242755-001
Scalable UPS Card	242756-001
Compaq Power Distribution Unit-low voltage	295363-001
Compaq Power Distribution Unit-high voltage	295363-B31
Rack-Mountable UPS R3000 (100-127 VAC)	242705-001
Rack-Mountable UPS R3000h (200-230 VAC)	242705-002
Rack-Mountable UPS R1500 (100-127 VAC)	272704-001
Rack-Mountable UPS R1500h (100-127 VAC)	272704-002
208V Power Cord (12')	188482-002

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

4-Cassette Magazine	199453-001
12- Cassette Magazine	137610-001
2.0-GB DAT Cassette	131107-002
4.0-GB DDS2 DAT Cassette	137611-001
15/30-GB DLT Drive Cartridge (single)	242465-001
15/30-GB DLT Drive Cartridge (7 pack)	242466-001
35/70-GB DLT Drive Cartridge (single)	295194-B21
35/70-GB DLT Drive Cartridge (7 pack)	295192-B21
DLT Cleaning Cartridge	199704-001
Daisy Chain Cable	199712-001
12.0-GB DDS3 DAT Cassette (10 pack)	295515-B21
DAT 4mm Cleaning Cassette	131194-001
DLT Magazine with Five 35/70 GB DLT Tapes	295168-B21
DLT Magazine with Five 15/30-GB DLT Tapes	242898-B21

**Redundant Options**

Compaq Hot-Pluggable Redundant Power Supply Option Kit	283697-001
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**Cables**

VHDCI 68-pin to standard 68-pin, 6' racks	295644-B21
VHDCI 68-pin to standard 68-pin, 12' racks	295645-B21
VHDCI 68-pin to standard 50-pin, 6' racks	295646-B21
VHDCI 68-pin to standard 50-pin, 12' racks	295657-B21

<sup>1</sup> Data transfer rate will vary from 150 KB/s to 2400 KB/s.

<sup>2</sup> For Maximum storage, remove the CD-ROM for an additional 27.3-GB (3 x 9.1-GB non hot plug drives).

<sup>3</sup> Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.

<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/index-drives.html>. 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> Will not allow rack door to close when installed into CPU.

<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> VHDCI cable required to connect 50 or 68 pin external devices.

<sup>10</sup> For NetFlex-3 controller only.