

TECHSPECS

Compaq ProLiant 2500R

System Unit

Dimensions (HxWxD)	8.67 x 19.00 x 22.75 in/ 22.0 x 48.3 x 55.9 cm	
Weight	48 lb/21.77 kg (without hard drives)	
Input Requirements		
Range Line Voltage	90-132 VAC/180-265 VAC	
Nominal Line Voltage	100-120 VAC/220-240 VAC	
Line Frequency	50-60 Hz	
Heat	1706 BTU	
Steady-State Input Power	500 W	
Output	325 W	
Temperature Range (noncondensing)		
Operating	50° to 93°F/10° to 35° C	
Shipping	-22° to 140°F/-30° to 60° C	
Relative Humidity (noncondensing)		
Operating	20% to 80%	
Nonoperating	5% to 90%	
Acoustic Noise	NPEL (BELS)	AVERAGE SPL (dBA)
IDLE (Fixed Disk Drives Spinning)	6.0	43
OPERATING (Random Seeks to Fixed Disks)	6.1	44

1.44-MB Diskette Drive

Diskette Size	3.5-in
LED Indicators (front panel)	Green
Read/Write Capacity per Diskette (high/low density)	1.44 MB/720 KB
Drive Supported	One
Drive Height	One-third
Drive Rotation	300 rpm
Transfer Rate (high/low)	500/250 Kb/s
Bytes/Sector	512
Sectors/Track (high/low)	18/9
Tracks/Side (high/low)	80/80
Access Times	
Track-to-Track (high/low)	3/6 ms
Average (high/low)	169/94 ms
Settling Time	15 ms
Latency Average	100 ms
Cylinders (high/low)	80/80
Read/Write Heads	Two

Pluggable Wide-Ultra SCSI-3 10,000 rpm Hard Drive

Capacity	4.3-GB 4293.6 MB	9.1-GB 9100.0 MB
Height	Third, 1.0 inch	Half, 1.6 inch
Size	3.5 in	3.5 in
Interface	Wide-Ultra SCSI-3	Wide-Ultra SCSI-3
Transfer Rate	40 MB/s	40 MB/s
Sector Interleave	1:1	1:1

**Pluggable Wide-Ultra
SCSI-3 10,000 rpm
Hard Drive (cont'd)**

	4.3-GB	9.1-GB
Seek Time (typical, including settling)		
Single Track	0.8 ms	0.8 ms
Average	7.5 ms	8.0 ms
Full Stroke	18.0 ms	18.0 ms
Rotational Speed	10,000 rpm	10,000 rpm
Physical Configuration		
Cylinders	4,811	4,811
Heads	11	23
Sectors/Track	126 to 207	126 to 207
Bytes/Sector	512	512
Logical Blocks	8,386,000	17,773,500
Operating Temperature	50° to 86°F/ 10° to 30°C	50° to 86°F/ 10° to 30°C

**Wide-Ultra SCSI-3
Hard Drives**

	2.1-GB	4.3-GB	9.1-GB	9.1-GB	18.2-GB
Capacity	2097.4 MB	4293.6 MB	9100.0 MB	9100.0 MB	18209.8 MB
Height	Third, 1.0 inch	Third, 1.0 inch	Half, 1.6 inch	Third, 1.0 inch	Half, 1.6 inch
Size	3.5 in	3.5 in	3.5 in	3.5 in	3.5 in
Interface	Wide-Ultra SCSI-3	Wide-Ultra SCSI-3	Wide-Ultra SCSI-3	Wide-Ultra SCSI-3	Wide-Ultra SCSI-3
Transfer Rate	40 MB/s	40 MB/s	40 MB/s	40 MB/s	40 MB/s
Sector Interleave	1:1	1:1	1:1	1:1	1:1
Seek Time (typical, including settling)					
Single Track	1.9 ms	1.0 ms	1.0 ms	2.0 ms	2.0 ms
Average	9.5 ms	7.9 ms	7.9 ms	7.5 ms	8.5 ms
Full Stroke	18.5 ms	19.0 ms	19.0 ms	16.0 ms	19.0 ms
Rotational Speed	7200 rpm	7200 rpm	7200 rpm	7200 rpm	7200 rpm
Physical Configuration					
Cylinders	5178	4,811	4,811	8,162	8,162
Heads	5	11	23	10	20
Sectors/Track	119 to 186	126 to 207	126 to 207	140 to 250	140 to 280
Bytes/Sector	512	512	512	512	512
Logical Blocks	4,110,000	8,386,000	17,773,500	17,777,550	35,566,000
Operating Temperature	50° to 95°F/ 10° to 35°C	50° to 95°F/ 10° to 35°C	50° to 95°F/ 10° to 35°C	50° to 95°F/ 10° to 35°C	50° to 95°F/ 10° to 35°C

**8X Internal CD-ROM
Drive IDE**

Disk	CD-ROM (Mode 1 and 2), CD-DA, CD-XA (Mode 2, Form 1 and 2), Photo CD (Single and Multiple Session), Mixed Mode (Audio and Data Combined)
Capacity	550 MB (Mode 1, 12 cm), 640 MB (Mode 2, 12 cm), 180 MB (8 cm)
Block Size	2352, 2340, 2336, 2048, 1024 bytes (Mode 1); 2646, 2352, 2048, 2340, 2336, 1024 bytes (Mode 2); 2352 bytes (CD-DA)
Diameter	4.7 in, 3.15 in/12 cm, 8 cm

**8X Internal CD-ROM
Drive IDE** *(cont'd)*

Disk <i>(cont'd)</i>	
Rotational Speed	2120-920 rpm, normal quad
Center Hole	.6 in/15 mm diameter
Thickness	.05 in/1.2 mm
Track Pitch	1.6 μ m
Interface	IDE
Access Times (typical)	
Random	Less than 200 ms
Full Stroke	Less than 500 ms
Audio Output Level	
Line Out	0.7 VRMS at 47 kOhms
Headphone	0.7 VRMS at 32 kOhms (maximum volume)
Data Transfer Rate	
Sustained	600 KB/s 1200 KB/s
Burst	4 MB/s
Cache Buffer	256 KB
Start-Up Time (typical)	Less than 7 seconds
Stop Time	Less than 4 seconds
Laser Parameters	
Type	Semiconductor Laser GaAlAs
Wave Length	780 \pm 25 nm
Divergence Angle	53.5° \pm 1.5°
Output Power	0.24 mW \pm 0.1 mW
Operating Conditions	
Temperature	41-113°F/5-45°C
Humidity	10-80%
Dimensions (HxWxD, maximum)	
	1.69 x 5.75 x 8.19 in/4.29 x 14.6 x 20.8 cm
Weight	2.09 lb/.95 kg

**Integrated Wide-Ultra
SCSI-3 Controller**

Drives Supported	Up to seven SCSI devices
Data Transfer Method	32-Bit PCI bus master
SCSI Channel Transfer Rate	40 MB/s
Maximum Transfer Rate per PCI Bus	133 MB/s
SCSI Termination	Active Termination
SCSI Connectors	1 external, 2 internal

**SMART-2DH Array
Controller**

Protocol	Wide-Ultra SCSI-3
SCSI Electrical Interface	Single-ended
Drives Supported	Up to 14 Wide-Ultra SCSI-3, Fast-Wide SCSI-2 and Fast SCSI-2 Hard Drives
Data Transfer Method	32-bit PCI bus master

**SMART-2DH Array
Controller** *(cont'd)*

Maximum Transfer Rate on PCI Bus (peak)	133 MB/s
Simultaneous Drive Transfer Channels	Two
SCSI Bus Termination	Required
Total Transfer Rate	80 MB/s (40 MB/s per channel)
Software Upgradable Firmware	Yes
Cache (Read/Write)	16-MB Array Accelerator, removable with battery backup
Logical Drives Supported	32
Reliability Features	
Distributed Data Guarding (RAID 5)	Yes
Data Guarding (RAID 4)	Yes
Drive Mirroring (RAID 1)	Yes
Drive Striping (RAID 0)	Yes
Controller Duplexing	Operating System Dependent
Automatic Data Recovery	Yes
Dimensions	
Height	3.8 in/9.9 cm
Length	13.75 in/34.9 cm
Thickness (including Array Accelerator)	.80 in/1.5 cm
Total Weight (including Array Accelerator)	N/A
Temperature Range	
Operating	50° to 95°F/10° to 36°C
Shipping	-22° to 140°F/-30° to 60°C
Related Humidity (non condensing)	
Operating	20% to 80%
Non-Operating	5% to 90%
Power Required	+5 V/2.6 amp +12 V/20 ms -12 V/20 ms
Heat Dissipated (maximum)	13.5 watts

**Netelligent 10/100 TX
UTP Controller (embedded)**

Network Interface	10Base-T/100Base-TX
Compatibility	IEEE 802.3/802.3u compliant
Data Transfer Method	32-bit bus-master PCI
Network Transfer Rate	
10Base-T (Half-Duplex), 10Base-2	10 Mb/s
10Base-T (Full-Duplex)	20 Mb/s
100Base-TX (Half-Duplex)	100 Mb/s
100Base-TX (Full-Duplex)	200 Mb/s
Connector	RJ-45 and AUI
I/O Address and Interrupt	Automatic Configuration
Cable Support	
10Base-T	Categories 3, 4 or 5 UTP (2 or 4 pair); up to 100 meters (328 feet)
100Base-TX	Category 5 UTP (2 pair); up to 100 meters (328 feet)

Netelligent 10/100 TX

OS Driver Support	Novell NetWare Server v 3.20, 4.1x, intraNetWare,
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UTP Controller (embedded)
(*cont'd*)

SFT III, Novell NetWare DOS
IBM LAN Server NDIS 3.0: Microsoft Windows NT,
Windows 95, Windows for Workgroups SCO Unix

Compaq Rack 7142 (42U)
(optional)

Dimensions	Total Cabinet	Usable Area	Shipping
Height	85.30 in/216.66 cm	73.50 in/186.69 cm	90.75 in/230.5 cm
Depth	33.50 in/85.09 cm	29 in/73.66 cm	48 in/121.92 cm
Width	24.00 in/60.96 cm	17.6 in/44.7 cm	32 in/81.28 cm
Weight	253 lb/114.84 kg	—	325 lb/147.52 kg

Compaq Rack 7122 (22U)
(optional)

Dimensions	Total Cabinet	Usable Area	Shipping
Height	50.29 in/127.73 cm	38.50 in/97.79 cm	56.63 in/143.84 cm
Depth	33.50 in/85.09 cm	29 in/73.66 cm	48 in/121.92 cm
Width	24.00 in/60.96 cm	17.6 in/44.7 cm	32 in/81.28 cm
Weight	176 lb/79.89 kg	—	225 lb/102.13 kg

Compaq Rack 4136 (36U)
(optional)

Dimensions	Total Cabinet	Usable Area	Shipping
Height	67.97 in/172.5 cm	63.05 in/160.02 cm	85.25 in/203.84 cm
Depth	34.49 in/87.55	31.01 in/78.7 cm	33.50 in/85.09 cm
Width	23.56 in/59.8 cm	17.77 in/45.1 cm	24.0 in/60.96 cm
Weight	225 lb/102.13 kg	—	234 lb/106 kg