

# TECHSPECS

Compaq ProLiant 2500

## System Unit

<b>Dimensions</b> (HxWxD) With Base	20.23 x 10.91 x 24.98 in/51.4 x 27.7 x 63.4 cm	
<b>Weight</b>	52 lb/23.59 kg (without hard drives)	
<b>Input Requirements</b>		
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	
<b>Steady-State Input Power</b>	500 W	
<b>Output</b>	325 W	
<b>Temperature Range</b> (noncondensing)		
Operating	50° to 93°F/10° to 35° C	
Shipping	-22° to 140°F/-30° to 60° C	
<b>Relative Humidity</b> (noncondensing)		
Operating	20% to 80%	
Nonoperating	5% to 90%	
<b>Acoustic Noise</b>	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

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

## Pluggable Wide-Ultra SCSI-3 10,000 rpm<sup>1</sup> Hard Drive

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

**Pluggable Wide-Ultra  
SCSI-3 10,000 rpm<sup>1</sup>  
Hard Drive (cont'd)**

	<b>4.3-GB</b>	<b>9.1-GB</b>
<b>Sector Interleave</b>	1:1	1:1
<b>Seek Time</b> (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
<b>Rotational Speed</b>	10,000 rpm	10,000 rpm
<b>Physical Configuration</b>		
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
<b>Operating Temperature</b>	50° to 86°F/ 10° to 30°C	50° to 86°F/ 10° to 30°C

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

	<b>2.1-GB</b>	<b>4.3-GB</b>	<b>9.1-GB</b>	<b>9.1-GB</b>	<b>18.2-GB</b>
<b>Capacity</b>	2097.4 MB	4293.6 MB	9100.0 MB	9100.0 MB	18209.8 MB
<b>Height</b>	Third, 1.0 inch	Third, 1.0 inch	Half, 1.6 inch	Third, 1.0 inch	Half, 1.6 inch
<b>Size</b>	3.5 in	3.5 in	3.5 in	3.5 in	3.5 in
<b>Interface</b>	Wide-Ultra SCSI-3	Wide-Ultra SCSI-3	Wide-Ultra SCSI-3	Wide-Ultra SCSI-3	Wide-Ultra SCSI-3
<b>Transfer Rate</b>	40 MB/s	40 MB/s	40 MB/s	40 MB/s	40 MB/s
<b>Sector Interleave</b>	1:1	1:1	1:1	1:1	1:1
<b>Seek Time</b> (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
<b>Rotational Speed</b>	7200 rpm	7200 rpm	7200 rpm	7200 rpm	7200 rpm
<b>Physical Configuration</b>					
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
<b>Operating Temperature</b>	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**

<b>Disk</b>	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)
<b>Capacity</b>	550 MB (Mode 1, 12 cm), 640 MB (Mode 2, 12 cm), 180 MB (8 cm)
<b>Block Size</b>	2352, 2340, 2336, 2048, 1024 bytes (Mode 1); 2646, 2352, 2048, 2340, 2336, 1024 bytes

(Mode 2); 2352 bytes (CD-DA)

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

<b>Disk</b> <i>(cont'd)</i>	
Diameter	4.7 in, 3.15 in/12 cm, 8 cm
Rotational Speed	2120-920 rpm, normal quad
Center Hole	.6 in/15 mm diameter
Thickness	.05 in/1.2 mm
Track Pitch	1.6 $\mu$ m
<b>Interface</b>	IDE
<b>Access Times</b> (typical)	
Random	Less than 200 ms
Full Stroke	Less than 500 ms
<b>Audio Output Level</b>	
Line Out	0.7 VRMS at 47 kOhms
Headphone	0.7 VRMS at 32 kOhms (maximum volume)
<b>Data Transfer Rate</b>	
Sustained	600 KB/s
	1200 KB/s
Burst	4 MB/s
<b>Cache Buffer</b>	256 KB
<b>Start-Up Time</b> (typical)	Less than 7 seconds
<b>Stop Time</b>	Less than 4 seconds
<b>Laser Parameters</b>	
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
<b>Operating Conditions</b>	
Temperature	41-113°F/5-45°C
Humidity	10-80%
<b>Dimensions</b> (HxWxD, maximum)	1.69 x 5.75 x 8.19 in/4.29 x 14.6 x 20.8 cm
<b>Weight</b>	2.09 lb/.95 kg

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

<b>Drives Supported</b>	Up to seven SCSI devices per controller
<b>Data Transfer Method</b>	32-Bit PCI bus master
<b>SCSI Channel Transfer Rate</b>	40 MB/s per channel
<b>Maximum Transfer Rate per PCI Bus</b> (peak)	133 MB/s
<b>SCSI Termination</b>	Active Termination
<b>SCSI Connectors</b>	1 external, 1 internal

**SMART-2DH Array  
Controller**

<b>Protocol</b>	Wide-Ultra SCSI-3
<b>SCSI Electrical Interface</b>	Single-ended
<b>Drives Supported</b>	Up to 14 Wide-Ultra SCSI-3, Fast-Wide SCSI-2 and Fast SCSI-2
<b>Data Transfer Method</b>	32-bit PCI bus master
<b>Maximum Transfer Rate on PCI Bus</b> (peak)	132 MB/s
<b>Simultaneous Drive Transfer Channels</b>	Two
<b>SCSI Bus Termination</b>	Required

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

<b>Total Transfer Rate</b>	80 MB/s (40 MB/s per channel)
<b>Software Upgradable Firmware</b>	Yes
<b>Cache (Read/Write)</b>	16-MB Array Accelerator, removable with battery backup
<b>Logical Drives Supported</b>	32
<b>Reliability Features</b>	
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
<b>Dimensions</b>	
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
<b>Temperature Range</b>	
Operating	50° to 95° F/10° to 36° C
Shipping	-22° to 140° F/-30° to 60° C
<b>Related Humidity</b> (non condensing)	
Operating	20% to 80%
Non-Operating	5% to 90%
<b>Power Required</b>	+5 V/2.6 amp +12 V/20 ms -12 V/20 ms
<b>Heat Dissipated</b> (maximum)	13.5 watts

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

<b>Network Interface</b>	10Base-T/100Base-TX
<b>Compatibility</b>	IEEE 802.3/802.3u compliant
<b>Data Transfer Method</b>	32-bit bus-master PCI
<b>Network Transfer Rate</b>	
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
<b>Connector</b>	RJ-45 and AUI
<b>Cable Support</b>	
10Base-T	Categories 3, 4, or 5 UTP (2 or 4 pair); up to 100 meters (328 feet)
<b>Cable Support</b>	
100Base-TX	Category 5 UTP (2 pair); up to 100 meters (328 feet)
<b>OS Driver Support</b>	Novell NetWare Server v 3.20, 4.1x, intraNetWare, SFT III, Novell NetWare DOS IBM LAN Server NDIS 3.0: Microsoft Windows NT, Windows 95, Windows for Workgroups SCO Unix

<sup>1</sup> The DLT 15 Cartridge Library Model 1530-1 (Part #242403-B21) or Model 3570 (Part #295555-001/002/B31/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 Quick Spec for details.