

# TECHSPECS

Compaq ProLiant 800

## System Unit

<b>Dimensions</b> (HxWxD)	18.48 x 7.3 x 16.58 in/46.94 x 16.06 x 42.11 cm
<b>Weight</b>	35.4 lb (without hard drives)
<b>Input Requirements</b>	
Rated Input Voltage	100-240 VAC
Rated Input Frequency	50-60 Hz
Rated Input Current	8.4 A
<b>Power Supply Output Power</b>	
Rated Steady-State Power	240 W
Maximum Peak Power	240 W
<b>Temperature Range</b> (noncondensing)	
Operating	50° to 95°F/10° to 35° C
Shipping	-22° to 122°F/-30° to 50° C
<b>Relative Humidity</b> (noncondensing)	
Operating	8% to 90%
Nonoperating	5% to 95%
<b>Maximum Wet Bulb Temperature</b>	101.7°F/38.7° C
<b>Heat Dissipation</b>	1600 BTU/Hr/ 6.72 kg cal/min

## Power Supply

<b>Input Specifications</b>	
Nominal Line Voltage	100-120 VAC/220-240 VAC
Range Input Line	90-132 VAC/180-264 VAC
Frequency Range	47-63 Hz
Power Factor	0.6
Input Factor	400 W
Input Current	8 A/4 A

## 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

Wide-Ultra SCSI-3  
Hard Drives<sup>1</sup>

	<b>2.1-GB</b>	<b>4.3-GB</b>	<b>4.3-GB</b>	<b>9.1-GB</b>
<b>Capacity</b>	2097.4 MB	4293.6 MB	4293.6 MB	9100.0 MB
<b>Height</b>	Third, 1.0 inch	Third, 1.0 inch	Third, 1.0 inch	Half, 1.6 inch
<b>Size</b>	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
<b>Transfer Rate</b>	40 MB/s	40 MB/s	40 MB/s	40 MB/s
<b>Sector Interleave</b>	1:1	1:1	1:1	1:1
<b>Seek Time</b> (typical, including settling)				
Single Track	1.9 ms	1.0 ms	0.8 ms	1.0 ms
Average	9.5 ms	7.9 ms	7.5 ms	7.9 ms
Full Stroke	18.5 ms	19.0ms	18.0 ms	19.0 ms
<b>Physical Configuration</b>				
Cylinders	5,178	4,811	4,811	4,811
Heads	5	11	11	23
Sectors/Track	119 to 186	126 to 207	126 to 207	126 to 207
Bytes/Sector	512	512	512	512
Logical Blocks	4,110,000	8,386,000	8,386,000	17,773,500
<b>Operating Temperature</b>	50° to 95°F/ 10° to 35°C	50° to 95°F/ 10° to 35°C	50° to 86°F/ 10° to 30°C	50° to 95°F/ 10° to 35°C
<b>Rotational Speed</b>	7200 rpm	7200 rpm	10,000 rpm	7200 rpm

## 8X CD-ROM Drive

<b>Disk</b>	
Applicable 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	2048, 1024 bytes (Mode 1); 2340, 2336, 1024 bytes (Mode 2); 2352 bytes (CD-DA)
Diameter	4.7 in, 3.15 in/12 cm, 8 cm
Rotational Speed	1840-4240 rpm
Center Hole	.6 in/15 mm diameter
Thickness	.05 in/1.2 mm
Track Pitch	1.6 µm
<b>Interface</b>	IDE
<b>Access Times</b> (typical)	
Random	150 ms
Full Stroke	350 ms
<b>Audio Output Level</b>	
Line Out	0.7 VRMS at 47 kOhms
Headphone	0.6 VRMS at 32 kOhms (maximum volume)
<b>Data Transfer Rate</b>	
Sustained	1200 KB/s
Burst	4 MB/s
<b>Cache Buffer</b>	128 KB

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

<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 GaAIAs
Wave Length	790 ± 25 nm
Divergence Angle	53.5° ± 1.5°
Output Power	0.14 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 4 internal or seven external SCSI devices
<b>Data Transfer Method</b>	32-Bit PCI bus master
<b>SCSI Channel Transfer Rate</b>	40 MB/s
<b>Host Bus Transfer Rate</b> (200 Mhz/180 MHz)	132 MB/s /120 MB/s
<b>SCSI Termination</b>	Active Termination
<b>SCSI Connectors</b>	1 external, 1 internal (68-pin Wide-Ultra SCSI-3)

SMART-2SL Array  
Controller

<b>Protocol</b>	Wide-Ultra SCSI-3
<b>SCSI Electrical Interface</b>	Single-ended
<b>Drives Supported</b>	Up to 7 Wide-Ultra SCSI-3, Fast-Wide or Fast SCSI-2 Hard Drives
<b>Data Transfer Method</b>	32-bit PCI bus master
<b>Maximum Transfer Rate on PCI Bus</b> (peak)	133 MB/s
<b>Simultaneous Drive Transfer Channels</b>	One
<b>Total Transfer Rate</b>	40 MB/s
<b>Software Upgradable Firmware</b>	Yes
<b>Read Cache</b>	6-MB ECC-protected Read Cache
<b>Logical Drives Supported</b>	32
<b>Reliability Features</b>	
Distributed Data Guarding (RAID 5)	Yes
Drive Mirroring (RAID 1)	Yes
Drive Striping (RAID 0)	Yes
Controller Duplexing	Operating System Dependent
Automatic Data Recovery	Yes

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 or Fast-SCSI-2 Hard Drives

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

<b>Data Transfer Method</b>	32-bit PCI bus master
<b>Maximum Transfer Rate on PCI Bus</b> (peak)	133 MB/s
<b>Simultaneous Drive Transfer Channels</b>	One
<b>Total Transfer Rate</b>	40 MB/s (40 MB/s per channel x 2=80 MB/s)
<b>Software Upgradable Firmware</b>	Yes
<b>Read/Write Cache</b>	16-MB Array ECC protected 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
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)	.60 in/1.5 cm
Total Weight (including Array Accelerator)	N/A
<b>Temperature Range</b>	
Operating	50° to 95°F/10° to 35° 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 ma -12 V/20 ma
<b>Heat Dissipated</b> (maximum)	13.5 watts
<b>SCSI Port Connectors</b> (internal and external)	68-pin Wide-Ultra SCSI-3

**Netelligent 10 T/2  
Embedded UTP  
Controller**

<b>Network Interface</b>	10Base-T
<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
<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

**Ethernet Cable  
(10/100Base-T)**

<b>Connector Type</b>	RJ-45, 8-pin
<b>Cable Type</b>	Unshielded twisted pair (UTP) 22-26 AWG, 100 Ohm @ 1 MHz
<b>Distance</b>	Up to 100 meters from node to concentrator

**10Base-2 Thin  
Ethernet Cable**

<b>Connector Type</b>	RJ-45 and BNC
<b>Cable Type</b>	RG 58 50 Ohm
<b>Cable Support</b> 10Base-T	Categories 3, 4 or 5 UTP (2 or 4 pair); up to 100 meters (328 feet)
<b>Distance</b>	Up to 200 meters

<sup>1</sup> Hard drive specifications may vary slightly depending on vendor.