

# TECHSPECS

Compaq ProLiant 3000R

## System Unit

<b>Dimensions</b> (HxWxD)	23.88 x 17.5 x 12.0 in/60.3 x 44.5 x 30.5 cm	
<b>Weight</b>	71 lb/31.95 kg	
No hard drives installed, two power supplies		
<b>Input Requirements</b> (per power supply)		
Rated Input Voltage	100 to 120 VAC/200 to 240 VAC	
Rated Input Frequency	50 to 60 Hz	
Input Power	780W @ 110 VAC/1100W @ 220 VAC	
Rated Input Current	8A	
<b>Power Supply Output Power</b> (per power supply)		
Rated Steady-State Power	500 W/750 W (lowline/highline)	
Maximum Peak Power	540 W/780 W (lowline/highline)	
<b>Temperature Range</b>		
Operating	50° to 95° F/10° to 35°C	
Non Operating	-20 to 140° F/-30° to 60°C	
Shipping	-22° to 122° F/-30° to 60°C	
<b>Relative Humidity</b> (noncondensing)		
Operating	20% to 80%	
Nonoperating	5% to 90%	
<b>Maximum Wet Bulb Temperature</b>	101.7°F/38.7°C	
<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

## Non-Hot Plug

	<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	Third, 1.0 inch
<b>Size</b>	3.5 in	3.5 in	3.5 in	3.5 in

## Non-Hot Plug (cont'd)

	<b>2.1-GB</b>	<b>4.3-GB</b>	<b>4.3-GB</b>	<b>9.1-GB</b>
<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	19.0 ms	18.0 ms	19.0 ms
<b>Rotational Speed</b>	7200 rpm	7200 rpm	10,000 rpm <sup>1</sup>	7200 rpm
<b>Physical Configuration</b>				
Cylinders	5,178	4,811	6,582	4,811
Heads	5	11	8	23
Sectors/Track	119 to 186	126 to 207	131 to 195	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	50° to 95°F	50° to 86°F	50° to 95°F

## Hot Plug

	<b>2.1-GB</b>	<b>4.3-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	4293.6 MB	9100.0 MB	9100.0 MB	18209.8 MB
<b>Height</b>	Third, 1.0 inch	Third, 1.0 inch	Third, 1.0 inch	Third, 1.0 inch	Half, 1.6 inch	Half, 1.6 inch
<b>Size</b>	3.5 in	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	Wide-Ultra SCSI-3
<b>Transfer Rate</b>	40 MB/s	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	1:1
<b>Seek Time</b> (typical, including settling)						
Single Track	1.9 ms	1.0 ms	0.8 ms	1.0 ms	0.8 ms	2.0 ms
Average	9.5 ms	7.9 ms	7.5 ms	7.9 ms	8.0 ms	8.5 ms
Full Stroke	18.5 ms	19.0 ms	18.0 ms	19.0 ms	18.0 ms	19.0 ms
<b>Rotational Speed</b>	7200 rpm	7200 rpm	10,000 rpm <sup>1</sup>	7200 rpm	10,000 rpm <sup>1</sup>	7200 rpm
<b>Physical Configuration</b>						
Cylinders	5,178	4,811	6,582	4,811	6,582	8,162
Heads	5	11	8	23	16	20
Sectors/Track	119 to 186	126 to 207	131 to 195	126 to 207	131 to 195	140 to 280
Bytes/Sector	512	512	512	512	512	512
Logical Blocks	4,110,000	8,386,000	8,386,000	17,773,500	17,773,500	35,566,000
<b>Operating Temperature</b>	50° to 95°F	50° to 95°F	50° to 86°F	50° to 95°F	50° to 86°F	50° to 95°F

16X Max<sup>2</sup> CD-ROM  
Drive IDE

<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)
Block Size	2048, 1024 bytes (Mode 1), 2340, 2336, 1024 bytes (Mode 2), 2352 bytes (CD-DA), 2328 bytes (CD-XA)

**16X Max<sup>2</sup> CD-ROM  
Drive IDE (cont'd)**

<b>Disk (cont'd)</b>	
Diameter	4.7 in, 3.15 in / 12 cm, 8 cm
Rotational Speed	4200 rpm maximum
Center Hole	.6 in/15 mm diameter
Thickness	1.2 mm
Track Pitch	1.6 $\mu$ m
<b>Interface</b>	IDE (ATAPI)
<b>Access Times (typical)</b>	
Random	100 ms
Full Stroke	200 ms
<b>Audio Output Level</b>	
Line Out	0.7 VRMS at 47 kOhms
Headphone	0.6 VRMS at 32 Ohms (maximum volume)
<b>Data Transfer Rate</b>	
Sustained	150 KB/s (single)
Burst	1200 - 2400 MB/s
<b>Cache Buffer</b>	128 KB
<b>Start-Up Time (typical)</b>	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	.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 15.0 x 20.8 cm
<b>Weight</b>	2.66 lbs/1.2 kg

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

<b>Drives Supported</b>	Up to seven SCSI devices per channel
<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 (peak)</b>	133 MB/s
<b>SCSI Termination</b>	Active Termination
<b>SCSI Connectors</b>	1 external, (68-pin) 2 internal, (68-pin)

**Netelligent 10/100 TX  
PCI UTP Controller**

<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

**Netelligent 10/100 TX  
PCI UTP Controller**  
(cont'd)

<b>Connector</b>	RJ-45
<b>Cable Support</b>	
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)
<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

**Compaq Rack 7122 (22U)**  
(optional)

<b>Dimensions</b>	<b>Total Cabinet</b>	<b>Usable Area</b>	<b>Shipping</b>
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)

<b>Dimensions</b>	<b>Total Cabinet</b>	<b>Usable Area</b>	<b>Shipping</b>
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 cm	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

**Compaq Rack 7142 (42U)**  
(optional)

<b>Dimensions</b>	<b>Total Cabinet</b>	<b>Usable Area</b>	<b>Shipping</b>
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

<sup>1</sup>For complete compatibility information, refer to the Compaq SCSI Hard Drive Compatibility table located at <http://www.compaq.com/products/servers/storage/drives/index/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>2</sup>Data transfer rate will vary from 150 KB/s to 2400 KB/s.

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