

chapter 6

SPECIFICATIONS

6.1 System

6.1.1 System Hardware

Computer Dimensions

Height	14.6 in	37.1 cm
Width	6.4 in	16.3 cm
Depth	10.4 in	26.7 cm

Weight (approximate, depending on configuration)	10.7 lb	4.8 kg
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Power Supply, 90 Watt

Operating Voltage Range	90-132 VAC	180-264 VAC
Rated Voltage Range	100-127 VAC	200-240 VAC
Rated Line Frequency	50-60 Hz	50-60 Hz
Rated input current (maximum)	2.5 A	1.25 A
Heat dissipation, nominal	235 BTU/hr	59 kg-cal/hr
Heat dissipation, maximum	470 BTU/hr	118 kg-cal/hr

Temperature

Operating	50° to 95°F	10° to 35°C
Nonoperating	-4° to 140°F	-20° to 60°C

Humidity (noncondensing)

Nonoperating	95% @	95% @ 30°C
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Maximum Altitude (unpressurized)

Operating	10,000 ft	3048 m
Nonoperating	30,000 ft	9144 m

6.2 Drives

6.2.1 Hard Drives

	4.3-GB	8.4-GB	13.0-GB	6.4-GB
Compaq Spare Part Number	161681-B21	161682-B21	161683-B21	161684-B21
Drive Type	65 (fixed)	65 (fixed)	65 (fixed)	65 (MultiBay)
Speed, RPM	5400	5400	5400	4200
Transfer Rate				
Interface (Mbytes/sec)	66.6	66.6	66.6	33.3
Typical Seek Time (ms)				
Single Track	1.3	1.2 max	4.75 max	4.0-5.5
Average	9.0	9.0	14.9 max	12.0-16.0
Full Stroke	20.0	22 max	27 max	23.0-30.0
Cylinders				
Logical	8912	16383	16383	13424
Data Heads				
Logical	15	16	16	15
Sectors per Track	63	63	63	63
Buffer Size (KB)	512	512	512	512

6.2.2 CD-ROM Drive

Compaq Spare Part Number	161685-B21
Applicable Disc	CD-ROM mode 1, mode 2 Mixed mode (audio & data combined) Photo CD (Single and Multiple Sessions) Mixed Mode (Audio and Data Combined) CDI Ready
Capacity	650 MB (Mode 1, 12 cm)
Access Time, average ms	
Random	140
Full Stroke	300
Data Transfer Rate	150 Kbytes/s (sustained, 1X) 3.6 Mbytes/s (sustained 24X Outer Diameter)
Bus Rate	16.6 Mbytes/s (burst)
Cache/Buffer	128 Kbytes (minimum)
Start-up/Stop Time	<10 seconds (typical)/<5 seconds
Error Rates	10 ⁻⁹ (soft error), 10 ⁻¹² (hard error), 10 ⁻⁶ (seek error)

6.2.3 DVD-ROM Drive

Compaq Spare Part Number	161679-B21
Applicable Disc	DVD (Single and Double Layer) CD-ROM mode 1 & 2, CD-DA CD-I and CD-XA (Mode 2, Form 1 & 2) Mixed mode (audio & data combined) Photo CD (Single and Multiple Sessions) CDI Ready, CD-Bridge, CD-R
Capacity	550 MB (Mode 1, 12 cm) 640 MB (Mode 2, 12 cm) 180 Mbytes (8 cm) 9.4 Gbytes (DVD-10) 8.5 Gbytes (DVD-9) 4.7 Gbytes (DVD-5)
Access Time, typical	
Random	<170 ms (DVD)/<130ms (CD)
Full Stroke	<280 ms (DVD)/<225 ms (CD)
Data Transfer Rate	150 Kbytes/s (sustained, 1X CD-ROM mode) 3.6 Mbytes/s (sustained 24X Outer Diameter) 5.41 Mbytes/s (sustained DVD4X Outer Diameter)
Bus Rate	16.6 Mbytes/s (burst) with DMA support

6.3 Internet Keyboard

Compaq Spare Part Number	
PS/2 Device	164995-nnn
USB Device	164996-nnn
Dimensions	
Height	
Width	
Depth	
Weight	

6.4 Mouse

Compaq Spare Part Number

PS/2 Device	165000-001
USB Device	164099-001

Dimensions

Height	1.48 in	37.5 cm
Width	2.44 in	62.0 cm
Depth	4.76 in	120.8 cm

Weight	4.6 oz	131 gm
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Base resolution	400 dpi	15.8 dpmm
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Maximum Tracking Speed	10 in/sec	25 cm/sec
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Temperature

Operating	32° to 104°F	0° to 40°C
Storage	-4° to 140°F	-20° to 60°C

Lifetime

Mechanical	15.5 miles	2.5 km
Switch	1x10 ⁶ actions with no degradation	

Relative Humidity	10% to 90%
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ESD	No soft errors up to 10kV. No hard errors up to 15 kV.
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6.5 Graphics Resolutions

Resolution	Colors Supported	Refresh Rate
1600 x 1200	256	85 Hz
1280 x 1024	16.7 M	85 Hz
1152 x 864	16.7 M	85 Hz
1024 x 768	16.7 M	85 Hz
800 x 600	16.7 M	85 Hz
640 x 480	16.7 M	85 Hz

6.6 Audio Controller

Sampling Rate	7 to 48 kHz
Full Scale Input Voltage (rms)	
Microphone-In	0.1
Full Scale Output Voltage (rms)	
Line Output	1.47
Dynamic Range (SNR)	
Digital Playback	-90.5dB
Digital Record	-87.5dB
Total Harmonic Distortion	0.02%
Frequency Response (-3 dB cutoffs)	
Line Level (48 kHz)	20 to 20,000 Hz
Impedance (nominal)	
Microphone-In	10-K ohms
Line Out	10-K ohms

6.7 Network Interface Controller

Connection Speed	
Half duplex	10/Mbits/s or 100 Mbits/s
Full duplex	20/Mbits/s or 200 Mbits/s
Supports	
Wake on Lan	
WfM 2.0	
Basic Alert on Lan	
DMI 2.0 compliant	
ACPI compliant	