

TECHSPECS

Compaq Professional
Workstation 8000

System Unit

Dimensions(HxWxD)	
Tower	19.7 x 8.6 x 23.0 in/50.04 x 21.84 x 58.42 cm
Rack Mountable	8.67 x 19 x 22.75 in/22 x 48.3 x 55.9 cm
Weight (with drive cage and one hard drive installed)	56.5 lb/00.0 kg
Power Supply	
Nominal Line Voltage	100 to 120 VAC/220 to 240 VAC
Rated Input Line	90 to 132 VAC/180 to 270 VAC
Frequency Range	47 - 63 Hz
Input Power	480W
Input Current	4.0A at 120 VAC/2.0A at 240 VAC
Temperature	
Operating	50° to 93°F/10° to 35°C
Nonoperating	-22° to 140°F/-30° to 60°C
Humidity (noncondensing)	
Operating	20 to 80%
Nonoperating	5% to 90%
Maximum Altitude (unpressurized)	
Operating	10,000 ft/3048 m
Nonoperating	30,000 ft/9144 m

Compaq Erase-Ease Keyboard

Dimensions(HxWxL)	2.1 x 7.1 x 19.7 in/5.3 x 18 x 50 cm
Weight	3.15 lb/1.59 kg
Cable Length	8 ft/2.4 m

1.44-MB Diskette Drive

Diskette Size	3.5-in
LED Indicators	Green
Read/Write Capacity/Diskette (high/low density)	1.44 MB/720 KB
Drive Height	One-third
Drive Rotation	300 rpm
Transfer Rate (high/low density)	500/250 Kb/s
Bytes/Sector	512
Sectors/Track (high/low density)	18/9
Tracks/Side (high/low density)	80/80
Seek Time	
Track-to-Track (high/low density)	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	2

Wide-Ultra SCSI SMART Hard Drives ¹

Capacity	2.1-GB 2.14 GB	4.3-GB 4.35 GB
Height	Third	Third
Size	3.5 in	3.5 in
Interface	Wide-Ultra SCSI	Wide-Ultra SCSI

TECHSPECS (cont'd)

Wide-Ultra SCSI SMART
Hard Drives¹(cont'd)

	2.1-GB	4.3-GB
Transfer Rate		
Media	7.3 to 11.4 MB/s	7.3 to 11.4 MB/s
Asynchronous	5.0 MB/s	5.0 MB/s
Synchronous (max)	40 MB/s	40 MB/s
Sector Interleave	1:1	1:1
Seek Time (read, typical including settling)		
Track to Track	1.9 ms	1.9 ms
Average	9.5 ms	9.5 ms
Full Stroke	18.5 ms	18.5 ms
Rotation Speed	7,200 rpm	7,200 rpm
Seek Time (write, typical including settling)		
Track to Track	2.2 ms	2.2 ms
Average	10.5 ms	10.5 ms
Full Stroke	20 ms	20 ms
Rotation Speed	7,200 rpm	7,200 rpm
Physical Configuration		
Cylinders	5,178	5,178
Heads (data + servo)	5	10
Sectors Per Track (zone bit recording)	119 to 186 (11 zones)	119 to 186 (11 zones)
Bytes Per Sector	512	512

Internal 16X
CD-ROM Drive (IDE)

Disk	CD-ROM Modes 1 and 2 Mixed Mode (Audio and Data Combined) CD-DA Photo CD (single and multi-session) CD-XA Ready CDi Ready
Capacity	540 MB (Mode 1, 12 cm) 630 MB (Mode 2, 12 cm)
Block Size	
Mode 1	2048 bytes
Mode 2	2340, 2336 bytes
CD-DA	2352 bytes
CD-XA	2328 bytes
Rotational Speed	1840-4240 rpm
Diameter	4.7 in, 3.15 in/12 cm, 8 cm
Center Hole	.6 in/15 mm diameter
Thickness	.05 in/1.2 mm
Track Pitch	1.6 μm
Interface	IDE
Access Time (typical)	
Random	Less than 100 ms
Full Stroke	Less than 200 ms
Audio Output Level	
Line Out	0.7 VRMS at 47 kOhms
Headphone	0.6 VRMS at 32 Ohms
Data Transfer Rate	
Sustained	150 KB/s
Variable	1200-2400 KB/s (8X-16X)

TECHSPECS (cont'd)

Internal 16X
CD-ROM Drive (IDE)
(cont'd)

Cache Buffer	128 KB
Startup Time	
Single	Less than 7 seconds
Multisession	Less than 30 seconds
Stop Time	Less than 4 seconds
Laser Parameters	
Type	Semiconductor Laser GaAlAs
Wave Length	780 ± 25 nm
Divergence Angle	53.5° ± 1.5°
Output Power	0.14 mW
Operating Conditions	
Temperature	41° to 113° F/5° to 45° C
Humidity	10 to 80%
Dimensions(HxWxD, maximum)	1.69 x 5.8 x 8.2 in/4.2 x 14.1 x 20.8 cm
Weight	2.02 lb/1 kg

PremierSound Audio

Type	ESS 1868 16-Bit, Plug and Play
Sound Quality	16-bit CD Quality
Sampling	44 KHz
Audio Compression/ Decompression	With ESPCM compression, a 15:1 compression ratio is provided allowing voice files to be transferred quickly and stored efficiently
Speaker	
Frequency Response	90 Hz to 20 kHz
Equalizer	5 stage
Design	Ported Enclosure
Volume Control	64 software levels
Full Duplex	Yes, in mono
Synthesizer	High quality, 20 voice ESFM music synthesizer
Connectors	Five 3.5 millimeter connectors: line-in, line-out, microphone (2), and headphones
Operating System Driver Support	Windows NT 4.0 and 3.51, Windows 95

Netelligent 10/100 TX
Embedded UTP Controller

Network Interface	10Base-T or 100 Base-TX
Expansion Bus Architecture	32-Bit PCI bus-master
Network Transfer Rate	
10Base-T (Half-Duplex)	10 Mb/s
10Base-T (Full-Duplex)	20 Mb/s
100Base-TX (Half-Duplex)	100 Mb/s
Connectors	
Ethernet	RJ-45 and AUI supports 10Base-T, 100Base-TX
Standards Compliance	
Ethernet	IEEE 802.3
100 Mb/s Ethernet	100Base-TX, IEEE 802.3u
I/O Address	Auto-configured
Communication Processor	Texas Instruments ThunderLAN

MGA Millennium II
Graphics Controller

OS Driver Support

MS Windows NT Workstation 4.0 and 3.51
MS Windows 95

NDIS 3.0 Compliant
NDIS 3.0 Compliant

Dimensions

7.25 x 5.00 in/18.4 x 12.7 cm

	Standard 4 MB WRAM, Colors Supported	Requires 8 MB WRAM, Additional Colors Supported	Requires 12 MB WRAM, Additional Colors Supported	Maximum Refresh Rate
Resolution				
640 x 480	16.7M	16.7M	16.7M	200 Hz
800 x 600	16.7M	16.7M	16.7M	180 Hz
1024 x 768	16.7M	16.7M	16.7M	140 Hz
1152 x 882	16.7M	16.7M	16.7M	120 Hz
1280 x 1024	16.7M	16.7M	16.7M	100 Hz
1600 x 1024	65,536	16.7M	16.7M	100 Hz
1600 x 1200	65,536	16.7M	16.7M	90 Hz
1920 x 1035	65,536	16.7M	16.7M	85 Hz
1920 x 1080	65,536	16.7M	16.7M	80 Hz
1920 x 1200	256	65,536	65,536	75 Hz
1800 x 1440	256	65,536	65,536	70 Hz

Acceleration

2D GUI, 250 MHz RAMDAC

Memory

4 MB WRAM with upgrades to 8 and 16 MB available

Controller

Matrox MGA 2164W

Bus Type

PCI

RAMDAC

TVP 3026 250 MHz

Memory Type

WRAM

Memory Amount

4 + 4 or 12 MB

Maximum Memory

16 MB

Memory Speed

50 ns

Data Path

64-bit

Controller Clock Speed

66 MHz

Maximum Vertical Refresh Rate

200 Hz

Maximum Horizontal Scan Rate

114 kHz

Maximum Pixel Rate

250 MHz

Video Features

Interface

VGA Feature Connector, VGA Output Connector, Rainbow Runner Multimedia Upgrade Option (to be available from Matrox)
Yes

MPEG HW

Yes

Acceleration

Scaling

Yes

Color Space Conversion

Yes

Engine Acceleration

BitBLT

Yes

Line Draw

Yes

Polygon

Yes

3D

Yes

TECHSPECS (cont'd)

MGA Millennium II
Graphics Controller
(cont'd)

Performance	
Random 10-Pixel	310 K/s
Solid Lines	
Filled 25-Pixel Triangles	140 K/s
Operating Systems	Windows NT 4.0 and 3.51, Windows 95

Fire GL 4000
Graphics Controller

Dimensions	10.0 x 5.0 in/25.4 x 12.7 cm
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Resolution	3D Acceleration with Double Buffering, Colors Supported	Texture Memory	Maximum Refresh Rate
640 x 480	16.7M	16 MB	120 Hz
800 x 600	16.7M	16 MB	120 Hz
1024 x 768	16.7M	16 MB	100 Hz
1280 x 1024	16.7M	16 MB	85 Hz
3D/2D Controller		Evans and Sutherland 3DPro	
VGA Controller		Cirrus 5446	
Bus Type		PCI	
RAMDAC		TI TVP3026 220 MHz	
Memory Type		3DRAM and CDRAM	
Memory Amount		15 MB 3DRAM, 16 MB CDRAM (3DPro) 1 MB DRAM (Cirrus)	
Memory Speed		10 ns 3DRAM, 15 ns CDRAM (3DPro) 60 ns DRAM (Cirrus)	
Data Path		64-bit (3DPro) 32-bit (Cirrus)	
Controller Clock Speed		70 MHz (3DPro) 50 MHz (Cirrus)	
Maximum Vertical Refresh Rate		120 Hz	
Maximum Pixel Clock		220 MHz	
Hardware Accelerated 3D			
32-bit Z-buffering		Yes	
Gouraud shading		Yes	
Stencils		Yes	
Texture mapping (bilinear and trilinear)		Yes	
Performance			
Random 10-Pixel Solid Lines		6 M/s	
Filled 25- Pixel Triangles		2000 K/sec	
Operating Systems		Windows NT 4.0 and 3.51	

¹Hard drive specifications may vary slightly depending on vendor.