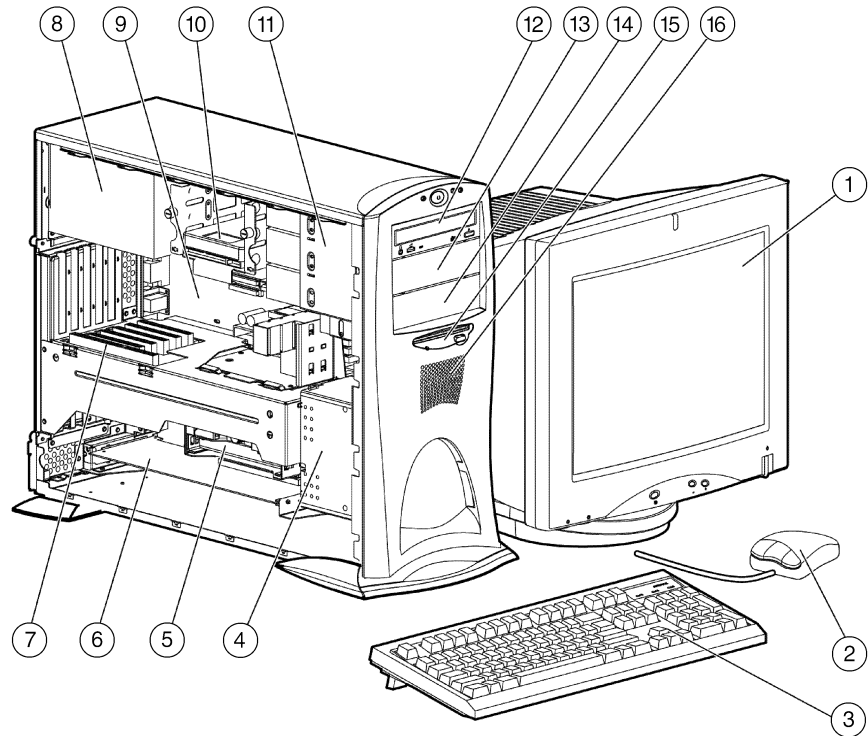


Overview

AT A GLANCE

- Minitower form factor for increased expandability (rackmount option)
- Supports up to two Intel Pentium® III Xeon™ 550-MHz processors
- 512-KB high speed writeback 2-way set associative L2 cache integrated on processor, up to 1 MB available
- Highly Parallel System Architecture maximizes system bandwidth to improve performance in demanding, resource-intensive applications.
- 128 or 256 MB of Registered ECC SDRAM, expandable to 4 GB
- High-performance 9.1-GB Wide Ultra2 SCSI SMART 10,000 rpm or 9.1-GB Wide-Ultra SCSI SMART 10,000 rpm hard drive
- Up to 144 GB of high-performance internal storage
- Compaq NC3161 Fast Ethernet NIC Embedded 10/100 WOL capable of operating in either 10Base-T or 100Base-TX environments
- Dual-peer 32-bit, PCI-based system
- Nine total slots (five PCI, one shared PCI/ISA, two ISA, one AGP)
- Seven bays (four user-accessible, three internal)
- Internal 32X Max CD-ROM Drive (IDE) and *Premier•Sound™* Audio
- Choice of Compaq PowerStorm™ 600, 3Dlabs Oxygen GVX1, ELSA Synergy II, Matrox Millennium G200, or Matrox Productiva G100 Quad MMS graphics controllers
- Multiple monitor support (select graphic controllers)
- Rackmountable via optional conversion kit
- Windows NT Workstation and Compaq support software pre-installed
- Intelligent Manageability Features
- Protected by Compaq Services, including a three-year limited warranty— Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. Three year labor and onsite not available in all countries.



- | | |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. Compaq Monitor | 10. 9.1-GB Wide Ultra2 SCSI SMART 10,000 rpm or 9.1-GB Wide-Ultra SCSI SMART 10,000 rpm Hard Drive |
| 2. 3-button Mouse | 11. Drive Cage |
| 3. Compaq Keyboard | 12. Internal 32X Max CD-ROM Drive (IDE) |
| 4. Cooling Fan with Plenum | 13. 5.25-inch Drive Bay (available) |
| 5. Processor Cage | 14. 5.25-inch Drive Bay (available) |
| 6. Accelerated Graphics Port (AGP) Graphics Controller | 15. 1.44-MB Diskette Drive |
| 7. Expansion Slots (five PCI, one shared PCI/ISA, two ISA) | 16. Speaker with <i>Premier•Sound</i> and Fixed Equalization |
| 8. 325-Watt Power Supply with Power Factor Correction (PFC) | |
| 9. Slide-Out System Board | |

QUICK SPECS

Compaq Professional
Workstation SP700

Standard Features

MODELS

Compaq Professional Workstation SP700

Available in multiple configurations; not all configurations available in all countries; check with your Authorized Compaq Reseller or Compaq

Processor

Intel Pentium III Xeon 550 MHz

Cache Memory

512-KB level 2 cache per processor

Upgradability

Upgradable to dual processing

Memory – One of the following:

Standard 256 MB of 100-MHz Registered ECC SDRAM memory

Maximum 4 GB

Standard 128 MB of 100-MHz Registered ECC SDRAM memory

Maximum 4 GB

Network Controller

Compaq NC3161 Fast Ethernet NIC Embedded 10/100 WOL

Expansion Slots

I/O (Total) 9, up to 8 available

Shared PCI/ISA 1, 1

PCI 5, up to 5 available, depending on model

ISA 2, 2

AGP 1, 0 or 1, depending on model

Storage Controller

Symbios Wide Ultra SCSI PCI Controller (on models with Ultra2 drives)

Integrated Dual Channel Wide-Ultra SCSI Controller (all models)

Storage

Diskette Drive 1.44 MB

CD-ROM 32X Max CD-ROM Drive IDE

Hard Drives One of the following:

9.1-GB Wide Ultra SCSI SMART 10,000 rpm hard drive

9.1-GB Wide-Ultra SCSI SMART 10,000 rpm hard drive

Interfaces

Parallel	1
USB	2
Serial	2
Wide-Ultra SCSI (50-pin)	1
Wide Ultra2 SCSI (68-pin)	1 (select models)
Keyboard (PS/2)	1
Pointing Device (PS/2 mouse)	1
Video	1
Microphone Jack	1
Headphone Jack	1
Line-in	1
Line-out	1
IEEE 1394	2
MIDI	1
RJ-45	1

Standard Features

Graphics – One of the following:

Compaq PowerStorm 600 Graphics Controller (PCI-based graphics rendering engine and AGP-based geometry accelerator)

3DLabs Oxygen GVX1 (AGP) Graphics Controller

ELSA Synergy II (AGP) Graphics Controller

Matrox Millennium G200 (AGP) Graphics Controller

Matrox Productiva G100 Quad Multi-monitor Series (PCI) Graphics Controller

Audio

Integrated 16-bit *Premier•Sound* Audio

Integrated speaker

Integrated five stage equalizer

Software

Compaq SmartStart

Compaq Management Agents for Workstations

Compaq PC Diagnostics (On SmartStart 4.0 or later)

ROM-based Setup

Compaq Support Software

Microsoft Windows NT Workstation 4.0

Diagnostics for Windows NT (On SmartStart 4.0 or later)

Microsoft Internet Explorer 4.01 Service Pack 1 (On SmartStart 4.0 or later)

Microsoft Service Pack 4

Intelligent Manageability

AssetControl

Fault Management

Security Management

Remote Management

Remote Wakeup via Magic Packet Support

Remote ROM Flash

Remote Security

Remote Shut Down

Pre-Failure Warranty (processors, hard drives and memory)

Security

Diskette write and boot control

Flash ROM lock

Keyboard password

Network server mode

Parallel interface control

Power-on password

Serial interface control

Setup password

Cable lock provision

Power Supply

325-Watt Power Supply

Service and Support

Protected by Compaq Services including a three-year limited warranty with three year parts coverage, three year on-site service, and three year labor; 7 x 24 hardware technical phone support and on-line support through the Internet; Pre-Failure Warranty coverage of hard drives, memory, and processors.

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. Three year labor and onsite not available in all countries.

QUICKSPECS

Compaq Professional
Workstation SP700

Standard Features

Models

SP7 550S2/128/9S/2+
388011-xx7

Processor	Intel Pentium III Xeon 550 MHz	Optical Drive	32X Max CD-ROM Drive IDE
Cache Memory	512-KB Level 2	Hard Drive	9.1-GB Wide-Ultra SCSI SMART 10,000 rpm
Memory	100-MHz ECC SDRAM	Graphics	ELSA Synergy II
Standard	128 MB	Audio	16-bit <i>Premier•Sound</i>
Maximum	4 GB	OS	Windows NT Workstation 4.0

SP7 550S2/256/9L/3M
388011-xx8

Processor	Intel Pentium III Xeon 550 MHz	Optical Drive	32X Max CD-ROM Drive IDE
Cache Memory	512-KB Level 2	Hard Drive	9.1-GB Wide Ultra SCSI SMART 10,000 rpm
Memory	100-MHz ECC SDRAM	Graphics	3Dlabs Oxygen GVX1
Standard	256 MB	Audio	16-bit <i>Premier•Sound</i>
Maximum	4 GB	OS	Windows NT Workstation 4.0

SP7 550S2/256/9L/3E
388011-xx6

Processor	Intel Pentium III Xeon 550 MHz	Optical Drive	32X Max CD-ROM Drive IDE
Cache Memory	512-KB Level 2	Hard Drive	9.1-GB Wide Ultra SCSI SMART 10,000 rpm
Memory	100-MHz ECC SDRAM	Graphics	Compaq PowerStorm 600
Standard	256 MB	Audio	16-bit <i>Premier•Sound</i>
Maximum	4 GB	OS	Windows NT Workstation 4.0

SP7 550S2/128/9S/X
388011-xx9 and graphics option

Processor	Intel Pentium III Xeon 550 MHz	Optical Drive	32X Max CD-ROM Drive IDE
Cache Memory	512-KB Level 2	Hard Drive	9.1-GB Wide Ultra SCSI 10,000 rpm
Memory	100-MHz ECC SDRAM	Graphics	Choice of graphics solutions: Productiva G100 Quad MMS (101479-B21) Matrox Millennium G200 (294308-B21) ELSA Synergy II (103382-B21) 3Dlabs Oxygen GVX1 (136398-B21)
Standard	256 MB	Audio	16-bit <i>Premier•Sound</i>
Maximum	4 GB	OS	Windows NT Workstation 4.0

Country Code Key

XX=00	U.S. English
XX=A2	Europe: English, French, Italian, German
XX=A4	Europe: English, French, Dutch, Spanish
XX=29	Japan: Japanese
XX=39	Japan: English
XX=37	Asia/Pacific English

Options

Processor

Intel Pentium III Xeon 550/1M processor upgrade	122715-B21
Intel Pentium III Xeon 550/512K processor upgrade	122714-B21
Intel Pentium III Xeon 500/1M processor upgrade	102321-B21
Intel Pentium III Xeon 500/512K processor upgrade	102320-B21

Note: When adding an additional processor, both processors must have the same speed and cache size.

Memory (DIMMs)

512-MB Memory Module (100-MHz SDRAM)	317740-B21
256-MB Memory Module (100-MHz SDRAM)	317739-B21
128-MB Memory Module (100-MHz SDRAM)	317738-B21
64-MB Memory Module (100-MHz SDRAM)	317737-B21

Monitors

TFT8020 Flat Panel Color 18-inch (Opal)	326100-xxx
TFT8020 Flat Panel Color 18-inch (Carbon)	159244-xxx
TFT7000 Flat Panel Color 17-inch (not available in NA)	136143-xxx
TFT5010 Flat Panel Color 15-inch	104741-xxx
P1610 Color CRT 24-inch (not available in NA)	325500-xxx
P1100 Color CRT 21-inch	325606-xxx
P900 Color CRT 19-inch	386326-xxx
P700 Color CRT 17-inch	380207-xxx
V1100 Color CRT 21-inch	386472-xxx
V700 Color 17-inch	325800-xxx

Note: AssetControl monitor. AssetControl features are accessible with Compaq Workstations featuring Intelligent Manageability.

Graphics

Matrox Millennium G200 (AGP2X)	294308-B21
Matrox Millennium G200 (PCI)	402544-B21
8-MB Memory Upgrade Millennium G200 (PCI)	294418-B21
Matrox Productiva G100 Quad Multi-monitor Series	101479-B21
ELSA Synergy II (AGP)	103382-B21
3Dlabs Oxygen GVX1 (AGP)	136398-B21
3Dlabs Oxygen GVX1 (PCI)	136397-B21

Diskette Drives

100-MB ATAPI ZIP Drive	294402-B21
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Options

Hard Drives

Wide Ultra3 SCSI Drives (requires Ultra3 SCSI controller)

36.4-GB Wide Ultra3 SCSI Drive 10,000 rpm (10K rpm drives require 10K mounting/cooling kit if installed in bays 5 or 6.)	161498-B21
18.2-GB Wide Ultra3 SCSI Drive 10,000 rpm (10K rpm drives require 10K mounting/cooling kit if installed in bays 5 or 6.)	159764-B21
18.2-GB Wide Ultra3 SCSI Drive	147503-B21
9.1-GB Wide Ultra3 SCSI Drive 10,000 rpm (10K rpm drives require 10K mounting/cooling kit if installed in bays 5 or 6.)	159763-B21

Wide Ultra2 SCSI Drives

18.2-GB Wide Ultra2 SCSI 10,000 rpm Drive (10K rpm drives require 10K mounting/cooling kit if installed in bays 5 or 6.)	128419-B21
18.2-GB Wide Ultra2 SCSI Drive	388143-B21
9.1-GB Wide Ultra2 SCSI 10,000 rpm Drive (10K rpm drives require 10K mounting/cooling kit if installed in bays 5 or 6.)	328942-B21
9.1-GB Wide Ultra2 SCSI Drive	349526-B21
10,000 rpm Drive Cooling Kit	329294-B21

Storage Controllers

Compaq Dual Channel Wide Ultra3 SCSI Controller	144387-B21
Symbios Wide Ultra2 SCSI PCI Controller	102196-B21
5-device SCSI Cable Kit	328955-B21
5-device Wide Ultra2 SCSI Cable Kit	401707-B21
Mylex AcceleRAID 150 Array Controller	402381-B21
SMART-221 Array Controller	388099-B21

External Storage

ProLiant Storage System Tower U1 (available in North America)	304110-B21
ProLiant Storage System Tower U1 (available outside of North America, except Japan)	304114-B31
ProLiant Storage System Tower U1 (available in Japan)	304114-291
ProLiant Storage System Tower U2 (available in North America)	304110-B22
ProLiant Storage System Tower U2 (available outside of North America, except Japan)	304114-B32
ProLiant Storage System Tower U2 (available in Japan)	304114-292
ProLiant Storage System Rack U1 (available in North America)	304100-B21
ProLiant Storage System Rack U1 (available outside of North America, except Japan)	304104-B31
ProLiant Storage System Rack U1 (available in Japan)	304104-291
ProLiant Storage System Rack U2 (available in North America)	304100-B22
ProLiant Storage System Rack U2 (available outside of North America, except Japan)	304104-B22
ProLiant Storage System Rack U2 (available in Japan)	304104-292
SCSI Storage Expander	142185-001

Tape Drives

External 35/70-GB DLT Drive	242521-B21
TR5 10/20-GB Tape Drive	294243-B21
4/8-GB SLR Drive	295480-B21
12/24-GB DDS-3 DAT Drive	295513-B21
AIT 35/70-GB Internal Tape Drive	388504-B21

Biometrics

Compaq Fingerprint Identification Technology	294307-001
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Multimedia

Hardware MPEG2 Decoder (supported with Synergy+, Synergy II, Millennium G200, GVX1)	294422-B21
10X DVD-ROM (without MPEG2 decoder)	294414-B21

Options

Communications

Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21
Compaq NC3122 Fast Ethernet NIC PCI Dual 10/100	317450-B21
Compaq NC4621 TR PCI 4/16 WOL	379956-B21
Compaq NC3131: 64 PCI, Dual Base 10/100	338456-B21
Compaq NC3132: 10/100 Dual Upgrade Module (for NC3131)	338456-B22
Compaq NC6132:1000 SX Upgrade Module (for NC3131)	338456-B23
Compaq NC6134 Gigabit NIC 64 PCI 1000SX	174818-B21
Intel PRO/100+ Management Adapter	127453-B21
Compaq 56K PCI Fax/Modem	321500-xx1
56K ISA Fax/Modem (Available in North America and Latin America.)	294900-001

Uninterruptible Power Systems

Compaq Tower UPS Model T2000 (low voltage)	242688-005
Compaq Tower UPS Model T2400h (high voltage) (Not available in North America.)	242688-006
Compaq Tower UPS Model T1500 (low voltage)	242688-003
Compaq Tower UPS Model T1500h (high voltage) (Not available in North America.)	242688-004
Compaq Tower UPS Model T1000 (low voltage)	242688-001
Compaq Tower UPS Model T1000h (high voltage) (Not available in North America.)	242688-002
Compaq Tower UPS Model T700 (low voltage)	295372-B21
Compaq Tower UPS Model T700h (high voltage) (Not available in North America.)	295372-B22

Other

Compaq Mouse (3-Button)	269192-B22
Compaq Spaceball 4000 3D Motion Control Input Device	112138-B21
External SCSI Adapter 68-/50-pin	270187-B21
12/24-GB DAT Cartridge (10 pack)	295515-B21
35/70-GB DLT Cartridge (7 pack)	295192-B21
35/70-GB DLT Cartridge (1 pack)	295194-B21
4/8-GB SLR Cartridge (5 pack)	295482-B21
DAT Cleaning Kit	242781-001
SLR Cleaning Cartridge	295483-B21
DLT Cleaning Cartridge	199704-001
Rack Mount Conversion Kit	338544-B22

Memory

Compaq Professional Workstation SP700 (128 MB)

STANDARD MEMORY

128-MB 100-MHz Registered ECC SDRAM standard (Like pairs are not required.)

Standard	Slot							
	1	2	3	4	5	6	7	8
128 MB	64 MB	Empty	Empty	Empty	64 MB	Empty	Empty	Empty

STANDARD MEMORY PLUS

OPTIONAL MEMORY

Support for up to 3200 MB of 100-MHz Registered ECC SDRAM memory is available with the installation of optional Memory Kits. (example configuration)

Up To	Slot							
	1	2	3	4	5	6	7	8
512 MB	64 MB	64 MB	128 MB	Empty	64 MB	64 MB	128 MB	Empty
1152 MB	64 MB	256 MB	256 MB	Empty	64 MB	256 MB	256 MB	Empty
2176 MB	64 MB	512 MB	512 MB	Empty	64 MB	512 MB	512 MB	Empty
3200 MB	64 MB	512 MB	512 MB	512 MB	64 MB	512 MB	512 MB	512 MB

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Support for up to 4 GB of 100-MHz Registered ECC SDRAM memory is available with the removal of the two standard 64-MB SDRAM modules and the installation of optional 100-MHz Registered ECC SDRAM Memory Kits.

Up To	Slot							
	1	2	3	4	5	6	7	8
512 MB	128 MB	128 MB	Empty	Empty	128 MB	128 MB	Empty	Empty
1 GB	128 MB	128 MB	256 MB	Empty	128 MB	128 MB	256 MB	Empty
2 GB	256 MB	256 MB	512 MB	Empty	256 MB	256 MB	512 MB	Empty
3 GB	512 MB	512 MB	512 MB	Empty	512 MB	512 MB	512 MB	Empty
4 GB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB

Note: Each group of four DIMM sockets is dedicated to one memory controller. When performing memory upgrades, Compaq recommends balancing the amount of memory being added between the controllers to optimize system performance. This chart does not represent all possible memory configurations.

Following are memory options available from Compaq:

- 512-MB 100-MHz Registered ECC SDRAM Memory Kit 317740-B21
- 256-MB 100-MHz Registered ECC SDRAM Memory Kit 317739-B21
- 128-MB 100-MHz Registered ECC SDRAM Memory Kit 317738-B21
- 64-MB 100-MHz Registered ECC SDRAM Memory Kit 317737-B21

Memory

Compaq Professional Workstation SP700 (256 MB)

STANDARD MEMORY

256-MB 100-MHz Registered ECC SDRAM standard (Like pairs are not required.)

Standard	Slot							
	1	2	3	4	5	6	7	8
256 MB	128 MB	Empty	Empty	Empty	128 MB	Empty	Empty	Empty

STANDARD MEMORY PLUS

OPTIONAL MEMORY

Support for up to 3328 MB of 100-MHz Registered ECC SDRAM memory is available with the installation of optional Memory Kits. (example configuration)

Up To	Slot							
	1	2	3	4	5	6	7	8
512 MB	128 MB	128 MB	Empty	Empty	128 MB	128 MB	Empty	Empty
1280 MB	128 MB	256 MB	256 MB	Empty	128 MB	256 MB	256 MB	Empty
2304 MB	128 MB	512 MB	512 MB	Empty	128 MB	512 MB	512 MB	Empty
3328 MB	128 MB	512 MB	512 MB	512 MB	128 MB	512 MB	512 MB	512 MB

STANDARD MEMORY REPLACED

WITH OPTIONAL MEMORY

Support for up to 4 GB of 100-MHz Registered ECC SDRAM memory is available with the removal of the two standard 128-MB SDRAM modules and the installation of optional 100-MHz Registered ECC SDRAM Memory Kits.

Up To	Slot							
	1	2	3	4	5	6	7	8
512 MB	256 MB	Empty	Empty	Empty	256 MB	Empty	Empty	Empty
1 GB	256 MB	256 MB	Empty	Empty	256 MB	256 MB	Empty	Empty
2 GB	256 MB	256 MB	512 MB	Empty	256 MB	256 MB	512 MB	Empty
3 GB	512 MB	512 MB	512 MB	Empty	512 MB	512 MB	512 MB	Empty
4 GB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB

Note: Each group of four DIMM sockets is dedicated to one memory controller. When performing memory upgrades, Compaq recommends balancing the amount of memory being added between the controllers to optimize system performance. This chart does not represent all possible memory configurations.

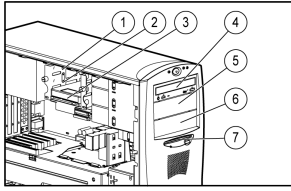
Following are memory options available from Compaq:

- 512-MB 100-MHz Registered ECC SDRAM Memory Kit 317740-B21
- 256-MB 100-MHz Registered ECC SDRAM Memory Kit 317739-B21
- 128-MB 100-MHz Registered ECC SDRAM Memory Kit 317738-B21
- 64-MB 100-MHz Registered ECC SDRAM Memory Kit 317737-B21

QUICK SPECS

Compaq Professional
Workstation SP700

Storage



DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
Removable Media			
1.44-MB Diskette Drive	Up to 1	7	Integrated
IDE CD-ROM Drive	Up to 1	4, 5, 6	Integrated IDE
10X DVD-ROM	Up to 1	4, 5, 6	Integrated IDE
100-MB ATAPI ZIP Drive	Up to 1	4, 5, 6	Integrated IDE
Hard Drives			
<i>Wide Ultra3 SCSI Drives</i>			
<u>1.6-inch</u> 36.4-GB 10,000 rpm	Up to 4	1, 3, 5, 6	Dual Channel Wide Ultra3 SCSI
<u>1-inch</u> 18.2-GB 10,000 rpm 18.2-GB 9.1-GB 10,000 rpm	Up to 5	1, 2, 3, 5, 6	
<i>Wide Ultra2 SCSI Drives</i>			
<u>1-inch</u> 18.2-GB 10,000 rpm 18.2-GB 9.1-GB 10,000 rpm 9.1-GB	Up to 5	1, 2, 3, 5, 6	Symbios Wide Ultra2 SCSI PCI or Wide-Ultra SCSI
<i>Wide-Ultra SCSI Drives</i>			
<u>1-inch</u> 9.1-GB 10,000 rpm	Up to 5	1, 2, 3, 5, 6	Wide-Ultra SCSI
Maximum Storage Capacity			
Internal	144 GB		
Tape Drives			
TR5 10/20-GB	Up to 1	5, 6	IDE
12/24-GB DDS-3 DAT	Up to 1	5, 6	Wide-Ultra SCSI
4/8-GB SLR	Up to 1	5, 6	Wide-Ultra SCSI
AIT 35/70-GB Internal	Up to 1	5, 6	Wide-Ultra SCSI

Technical Specifications

System Unit

Dimensions (HxWxD)	
Tower	19.75 x 10 x 23.5 in/50.2 x 25.4 x 59.69 cm
Rack Mountable (5U)	8.05 x 17.7 x 20.5 in/20.5 x 54.6 x 45 cm
Weight (standard configuration)	50 lbs/22.68 kg
Power Supply	
Operating Voltage Range	90 VAC to 264 VAC
Rated Voltage Range	100 VAC to 120 VAC; 200 VAC to 240 VAC
Rated Line Frequency	50 Hz to 60 Hz
Rated Input Current	7A @ 115 VAC; 4A @ 230 VAC
Maximum Rated Power	325-Watt output; 540-Watt input
Physical Dimensions	6.5 x 5 x 6.9 in/16.51 x 12.7 x 17.53 cm
Weight	7 lbs/3.18 kg
Temperature (Values are subject to change.)	
Operating	50° to 95°F/10° to 35°C
Non-operating	-22° to 140°F/-30° to 60°C
Humidity (non-condensing) (Values are subject to change.)	
Operating	5% to 95%
Non-operating	5% to 95%
Maximum Altitude (unpressurized)	
Operating	10,000 ft/3,048 m
Non-operating	30,000 ft/9,144 m

Compaq Keyboard

Dimensions (HxWxL)	1.3 x 6.4 x 18.3 in/3.3 x 16.26 x 46.48 cm
Weight	3 lbs/1.4 kg
Cable Length	8 ft/2.4 m

1.44-MB Diskette Drive

Diskette Size	3.5 in
LED Indicators (front panel)	Green
Read/Write Capacity per Diskette (high/low)	1.44 MB/720 KB
Drive Height	One-third
Drive Rotation	300 rpm
Transfer Rate (high/low)	500/250 Kb/s
Bytes/Sector	512
Sectors/Track (high/low)	18/9
Tracks/Side (high/low)	80/80
Access Times	
Track-to-Track (high/low)	3/6 ms
Average (high/low)	94/173 ms
Settling Time	15 ms
Latency Average	100 ms
Cylinders (high/low)	80/80
Read/Write Heads	Two

QUICK SPECS

Compaq Professional
Workstation SP700

Technical Specifications

Ultra3 SCSI Hard Drives

36.4 GB	Capacity	36,400 MB	Seek Time (typical reads, including settling)	
	Height	1.6 in/40.64 mm	Single Track	0.8 ms
	Width	3.5 in/88.9 mm	Average	5.0 ms
	Interface	Ultra3 SCSI	Full-Stroke	13.5 ms
	Transfer Rate		Rotational Speed	10,000 rpm
	Synchronous (Maximum)	160 MB/s	Physical Configuration	
			Bytes/Sector	512
			Logical Blocks	71,132,000
			Operating Temperature 50° to 95°F/10° to 35°C	
	18.2 GB	Capacity	18,209 MB	Seek Time (typical reads, including settling)
Height		1 in/25.4 mm	Single Track	0.8 ms
Width		3.5 in/88.9 mm	Average	5.0 ms
Interface		Ultra3 SCSI	Full-Stroke	13.5 ms
Transfer Rate			Rotational Speed	10,000 rpm
Synchronous (Maximum)		160 MB/s	Physical Configuration	
			Bytes/Sector	512
			Logical Blocks	35,566,000
			Operating Temperature 50° to 95°F/10° to 35°C	
18.2 GB		Capacity	18209.3 MB	Seek Time (typical reads, including settling)
	Height	1 in/25.4 mm	Single Track	0.8 ms
	Width	3.5 in/88.9 mm	Average	6.9 ms
	Interface	Ultra3 SCSI	Full-Stroke	15 ms
	Transfer Rate		Rotational Speed	7200 rpm
	Synchronous (Maximum)	160 MB/s	Physical Configuration	
			Bytes/Sector	512
			Logical Blocks	35,566,000
			Operating Temperature 50° to 95°F/10° to 35°C	
	9.1 GB	Capacity	9,100 MB	Seek Time (typical reads, including settling)
Height		1 in/25.4 mm	Single Track	0.8 ms
Width		3.5 in/88.9 mm	Average	5.0 ms
Interface		Ultra3 SCSI	Full-Stroke	13.5 ms
Transfer Rate			Rotational Speed	10,000 rpm
Synchronous (Maximum)		160 MB/s	Physical Configuration	
			Bytes/Sector	512
			Logical Blocks	17,773,500
			Operating Temperature 50° to 95°F/10° to 35°C	

Technical Specifications

Wide Ultra2 SCSI
Hard Drives (Ultra2 SCSI
or Ultra SCSI performance,
depending on controller)

18.2 GB	Capacity	18209 MB	Seek Time (typical reads, including settling)	
	Height	1 in/25.4 mm	Single Track	0.8 ms
	Width	3.5 in/88.9 mm	Average	5.7 ms
	Interface	Wide Ultra2 SCSI or Ultra SCSI	Full-Stroke	12.2 ms
	Transfer Rate		Rotational Speed	10,000 rpm
	Synchronous (Maximum)	40 or 80 MB/s	Physical Configuration	
			Bytes/Sector	512
			Logical Blocks	35,565,080
			Operating Temperature 50° to 95°F/10° to 35°C	
	18.2 GB	Capacity	18209 MB	Seek Time (typical reads, including settling)
Height		1 in/25.4 mm	Single Track	0.8 ms
Width		3.5 in/88.9 mm	Average	6.9 ms
Interface		Wide Ultra2 SCSI or Ultra SCSI	Full-Stroke	15 ms
Transfer Rate			Rotational Speed	7200 rpm
Synchronous (Maximum)		40 or 80 MB/s	Physical Configuration	
			Bytes/Sector	512
			Logical Blocks	35,565,080
			Operating Temperature 50° to 95°F/10° to 35°C	
9.1 GB		Capacity	9100 MB	Seek Time (typical reads, including settling)
	Height	1 in/25.4 mm	Single Track	0.8 ms
	Width	3.5 in/88.9 mm	Average	5.4 ms
	Interface	Wide Ultra2 SCSI or Ultra SCSI	Full-Stroke	12.2 ms
	Transfer Rate		Rotational Speed	10,000 rpm
	Synchronous (Maximum)	40 or 80 MB/s	Physical Configuration	
			Bytes/Sector	512
			Logical Blocks	17,773,500
			Operating Temperature 50° to 95°F/10° to 35°C	
	9.1 GB	Capacity	9100 MB	Seek Time (typical reads, including settling)
Height		1 in/25.4 mm	Single Track	1.9 ms
Width		3.5 in/88.9 mm	Average	7.5 ms
Interface		Wide Ultra2 SCSI	Full-Stroke	15 ms
Transfer Rate			Rotational Speed	7200 rpm
Synchronous (Maximum)		80 MB/s	Physical Configuration	
			Bytes/Sector	512
			Logical Blocks	17,773,500
			Operating Temperature 50° to 95°F/10° to 35°C	

Technical Specifications

32X Max CD-ROM Drive IDE

Disk	
Applicable Disk	CD-ROM (Mode 1 and 2) CD-DA Photo CD (Single and Multiple session) Mixed Mode (Audio and Data combined) CD-XA ready CDi ready
Capacity	540 MB (Mode 1, 12 cm) 650 MB (Mode 2, 12 cm)
Diameter	4.7 in, 3.15 in/12 cm, 8 cm
Rotational Speed	7,000 rpm maximum
Center Hole	0.6 in/15 mm diameter
Thickness	0.05 in/1.2 mm
Track Pitch	1.6 μ m
Block Size	
Mode 1	2,048 bytes
Mode 2	2,340, 2,336 bytes
CD-DA	2,352 bytes
CD-XA	2,328 bytes
Interface	IDE (ATAPI)
Access Times (typical)	
Random	< 100 ms
Full-Stroke	< 150 ms
Audio Output Level	
Line-out	0.7 VRMS at 47 kOhms
Headphone	0.6 VRMS at 32 Ohms (maximum)
Data Transfer Rate	
Sustained	150 KB/s
Burst	2100 to 4800 KB/s (14X to 32X)
Cache Buffer	128 KB
Start-up Time (typical)	< 7 seconds
Stop Time	< 4 seconds
Laser Parameters	
Type	Semiconductor Laser GaAlAs
Wave Length	780 \pm 25 nm
Divergence Angle	53.5 $^{\circ}$ \pm 1.5 $^{\circ}$
Output Power	0.14 mW
Operating Conditions	
Temperature	41 $^{\circ}$ to 113 $^{\circ}$ F/5 $^{\circ}$ to 45 $^{\circ}$ C
Humidity	10% to 80%
Dimensions	
(HxWxD, maximum)	1.7 x 5.9 x 8.19 in/4.29 x 15 x 20.8 cm
Weight	2.65 lbs/1.2 kg

QUICK SPECS

Compaq Professional
Workstation SP700

Technical Specifications

Premier•Sound Audio

Type	ESS 1869 AudioDrive® with Plug and Play support
Sound Quality	16-bit stereo (CD quality)
Sampling	4 kHz to 48 kHz
Audio Compression/Decompression	ESPCM® and ADPCM compression
Speaker	
Frequency Response	150 Hz to 15 kHz
Equalizer	5 stages of fixed equalization
Design	High performance, long excursion, infinite baffle loudspeaker
Volume Control	16 software controlled levels for master volume and each audio input
Full-Duplex	Yes
Synthesizer	High-quality, 20 voice ESFM music synthesizer
Connectors	4 stereo mini-jacks: line in, line out, headphone, and single monolithic microphone jack
Operating System Driver Support	Windows NT 4.0 and 3.51, Windows 95 and Windows 98

Compaq NC3161 Fast Ethernet NIC Embedded 10/100 WOL

Network Interface	10Base-T or 100Base-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
Connectors	
Ethernet	RJ-45 supports 10Base-T or 100Base-TX
Standards Compliance	
Ethernet	IEEE 802.3
100 Mb/s Ethernet	100Base-TX, IEEE 802.3u
I/O Address	Auto-configured
Communication Processor	Intel 82558

Highly Parallel System Architecture

Dual Memory Controllers	1.6 GB/s peak aggregate memory bandwidth
Dual-Peer PCI Buses	267 MB/s peak aggregate PCI bandwidth
Dual Wide-Ultra SCSI Buses	80 MB/s peak aggregate bandwidth
AGP 2X Support	533 MB/s data transfer rate
Optimized Multi-Processing Support	Symmetric Multi-processing (SMP); supports up to two Pentium III Xeon processors or two Pentium II Xeon processors

QUICKSPECS

Compaq Professional
Workstation SP700

Technical Specifications

Matrox Millennium G200 Graphics Controller

Dimensions (HxW)	6.13 x 3.55 in/15.57 x 9.02 cm			
Resolution	Maximum Colors Supported/8 MB	Maximum Refresh Rate/8 MB	Maximum Colors Supported/16 MB	Maximum Refresh Rate/16 MB
640 x 480	16.7M	200 Hz	16.7M	200 Hz
800 x 600	16.7M	180 Hz	16.7M	180 Hz
1024 x 768	16.7M	140 Hz	16.7M	140 Hz
1152 x 864	16.7M	120 Hz	16.7M	120 Hz
1280 x 1024	16.7M	100 Hz	16.7M	100 Hz
1600 x 1200	16.7M	75 Hz	16.7M	75 Hz
1920 x 1080	16.7M	70 Hz	16.7M	70 Hz
1920 x 1200	16.7M	65 Hz	16.7M	65 Hz
1800 x 1440	65,536	70 Hz	65,536	70 Hz
2D Controller	MGA-G200A			
VGA Controller	Integrated			
Bus Type	AGP			
RAMDAC	Integrated 250 MHz			
Memory Type	SGRAM			
Memory Amount	8-MB SGRAM			
Maximum Memory Speed	132 MHz			
Data Path	128 bit			
Controller Clock Speed	66 MHz			
Maximum Pixel Clock	250 MHz			
Performance				
Primitives	1 million polygons/s (25 pixels/polygon) – perspective corrected, bilinear filtered, texture mapped, Z-buffering			
Fill Rate	84 million pixels/s – perspective corrected, bilinear filtered, texture mapped			
Operating Systems	Windows NT 4.0 and 3.51, Windows 95 and 98, Windows 2000			

Matrox Productiva G100 Quad Multi-Monitor Series Graphics Controller

Dimensions (HxW)	4.2 x 12.28 in/10.67 x 31.19 cm	
Resolution	Maximum Colors Supported	Maximum Refresh Rate
640 x 480	16.7M	180 Hz
800 x 600	16.7M	180 Hz
1024 x 768	16.7M	140 Hz
1152 x 864	16.7M	120 Hz
1280 x 1024	16.7M	100 Hz
1600 x 1200	65,536	75 Hz
VGA Controller/Processor	MGA-G100 (4)	
Bus Type	PCI	
RAMDAC	Integrated 230 MHz	
Memory Type	SGRAM	
Memory Amount	16-MB SGRAM (4 MB per port)	
Data Path	64 bit	
Maximum Vertical Refresh Rate	200 MHz	
Maximum Pixel Clock	230 MHz	
Operating Systems	Windows NT 4.0 and 3.51, Windows 95 and Windows 98	

Technical Specifications

ELSA Synergy II Graphics Controller

Dimensions (HxW)	3.25 x 6.5 in/8.3 x 16.51 cm		
Resolution	Maximum Colors Supported	Maximum Refresh Rate	Memory Dedicated to Texture Support
640 x 480	16.7M	120 Hz	29.1 MB
800 x 600	16.7M	120 Hz	27.1 MB
1024 x 768	16.7M	120 Hz	23.5 MB
1152 x 864	16.7M	120 Hz	21.1 MB
1280 x 1024	16.7M	120 Hz	17.9 MB
1600 x 1000	16.7M	75 Hz	14 MB
1600 x 1000	65K	85 Hz	14 MB
1600 x 1200	16.7M	75 Hz	10.2 MB
1600 x 1200	65K	85 Hz	10.2 MB
1600 x 1280	16.7M	75 Hz	8.7 MB
1600 x 1280	65K	85 Hz	8.7 MB
1920 x 1080	16.7M	75 Hz	8.4 MB
1920 x 1080	65K	85 Hz	8.4 MB
1920 x 1200	16.7M	75 Hz	5.7 MB
1920 x 1200	65K	75 Hz	5.7 MB
3D/2D Controller	Nvidia TNT 2		
VGA Controller	Integrated		
Bus Type	AGP 2X/4X (ATX and NLX)		
RAMDAC	Integrated 300 MHz		
Memory Type	SDRAM		
Memory Amount	32 MB (maximum)		
Memory Speed	143 MHz		
Controller Clock Speed	125 MHz		
Color Planes	24 bit double buffered		
Stencil Planes	8 bit		
Alpha Planes	0		
Z-buffer	24 bit		
Total bits/pixel	96		
Maximum Vertical Refresh Rate	120 Hz		
Maximum Pixel Clock	300 MHz		
Multi-display support	No		
Operating Systems	Windows NT 4.0, Windows 95, Windows 98		

Note: All drivers and enhanced software, *POWERdraft*, *ELSAview*, and *MAXtreme*, can be found on the Compaq web site at www.compaq.com/support/workstations/us/index.html.

Technical Specifications

**3DLabs Oxygen GVX1
Graphics Controller**
(Not all settings are
supported on all monitors.)

Dimensions (HxW)	4.25 x 9.283 in/10.8 x 23.6 cm	
Resolution	Maximum Colors Supported	Maximum Refresh Rate
640 x 480	16.7M	100 Hz
1024 x 768	16.7M	100 Hz
1152 x 864	16.7M	100 Hz
1280 x 1024	16.7M	100 Hz
1600 x 1200	16.7M	85 Hz
1920 x 1080	16.7M	85 Hz
1920 x 1200	16.7M	76 Hz
3D Controller	GLINT R3	
Geometry	GLINT Gamma G1	
Bus Type	AGP	
RAMDAC	Integrated	
Memory Type	SGRAM	
Memory Amount	32 MB (maximum)	
Memory Speed	125 MHz	
Controller Clock Speed	125 MHz	
Color Planes	24 bit double buffered	
Overlay Planes	8 bit shared with alpha	
Stencil Planes	8 bit with 24-bit Z-buffer	
Alpha Planes	8 bit shared with overlay	
Z-buffer	24 bit (32 bit with no stencil)	
Total bits/pixel	96	
Maximum Vertical Refresh Rate	120 Hz	
Maximum Pixel Clock	300 MHz	
Operating Systems	Windows NT 4.0	
Dual-display Support	Yes (with additional optional GVX1 PCI card)	
Stereographics Support	Yes	
Resolution/Refresh Rates Supported for Stereographics Functionality		
Resolution	Maximum Colors Supported	Maximum Refresh Rate
1152 x 864	16.7M	132 Hz
1280 x 800	16.7M	118 Hz
1280 x 960	16.7M	118 Hz
1280 x 1024	16.7M	118 Hz

Technical Specifications

Compaq PowerStorm 600 Graphics Controller

Rendering Engine Dimensions (HxW)	12.25 x 3.875 in/31.12 x 9.84 cm		
Geometry Accelerator Dimensions (HxW)	12.25 x 3.875 in/31.12 x 9.84 cm		
	3D Acceleration with Double Buffering, Colors Supported	Texture Memory	Maximum Refresh Rate
Resolution			
640 x 480	16.7M	64 MB	60, 75, 85 Hz
800 x 600	16.7M	64 MB	60, 75, 85 Hz
1024 x 768	16.7M	64 MB	60, 75, 85 Hz
1152 x 864	16.7M	64 MB	60, 75, 85 Hz
1280 x 960	16.7M	64 MB	60, 75, 85 Hz
1280 x 1024	16.7M	64 MB	60, 75, 85 Hz
Rendering Engine Controller	Intense3D Pro 3600		
Geometry Accelerator Controller	Intense3D Wildcat™		
VGA Controller	Integrated		
Bus Type	PCI (rendering engine) and AGP (geometry accelerator)		
RAMDAC	IBM RGB640		
Memory Type	SDRAM		
Memory Amount	16-MB frame buffer, 64-MB texture memory		
Memory Speed	143 MHz frame buffer, 147 MHz texture memory		
Data Path	112-bit		
Controller Clock Speed	170 MHz		
Maximum Vertical Refresh Rate	85 Hz		
Maximum Pixel Clock	157 MHz		
Hardware Accelerated 3D			
Geometry acceleration 3 GFLOPS	Yes		
2D and 3D vectors and triangles	Yes		
Rectangle fills	Yes		
Anti-aliased vectors	Yes		
Alpha blending	Yes		
Masking	Yes		
Fog	Yes		
Clipping	Yes		
Z-buffering	Yes		
Gouraud shading	Yes		
Stencils	Yes		
Texture mapping (bilinear and trilinear)	Yes		
3D Performance			
Gouraud-shaded triangles 25-pixels (tri/s)	3.4M		
Gouraud-shaded triangles 50-pixels (tri/s)	1.9M		
Textured Gouraud-shaded fill 32-bit (RGBA) texels trilinear interpolated (pixels/s)	68M		
Vectors 10-pixel solid-color (vectors/s)	7.3M		
Gouraud-shaded vectors 10-pixel (vectors/s)	6.4M		
Anti-aliased vectors 10-pixel (vectors/s)	3M		
Operating System	Windows NT 4.0		