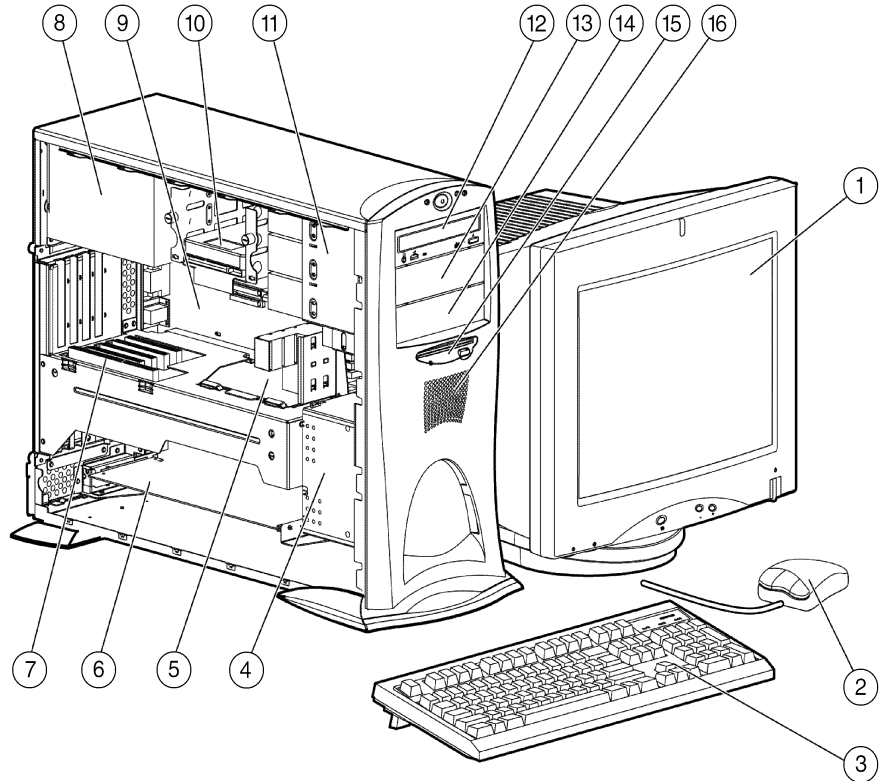


## Overview

### AT A GLANCE

- Minitower form factor; rack-mountable
- Supports up to two Intel Pentium® III 550-MHz processors (100-MHz Front Side Bus)
- Intel 440BX Chipset
- 512-KB writeback Level 2 cache integrated on processor
- 128 or 256 MB of Registered ECC SDRAM, expandable to 1 GB
- High-performance 9.1-GB Wide Ultra2 SCSI 10,000 SMART hard drives
- Up to 144 GB of high-performance internal storage (4 x 36 GB)
- Choice of Matrox Millennium G200, ELSA Synergy II, 3Dlabs Oxygen GVX1, Compaq PowerStorm™ 600, or Matrox Productiva G100 Quad MMS Graphics Controllers
- Compaq NC3161 Fast Ethernet NIC Embedded 10/100 WOL capable of operating in either 10Base-T or 100Base-TX environments
- 32-bit, PCI-based system
- Six total slots (three PCI, one shared PCI/ISA, one AGP)
- Seven bays (four user-accessible, three internal)
- Internal 32X Max CD-ROM Drive (IDE) and Premier•Sound™ Audio
- Multiple display support
- Windows NT Workstation 4.0 and Compaq support software pre-installed
- 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 may not be available in all countries.



1. Compaq Color Monitor (optional)
2. Compaq 3-button Mouse
3. Compaq Keyboard
4. Cooling Fan with Plenum
5. Slot Guide
6. Accelerated Graphics Port (AGP) Graphics Controller (pre-installed on selected models)
7. Expansion Slots (three PCI, one shared PCI/ISA, one ISA)
8. 325-Watt Power Supply with Power Factor Correction (PFC)
9. Slide-Out System Board
10. 9.1-GB Wide Ultra2 SCSI 10,000 rpm (Ultra3 (Ultra 160) SCSI and Ultra ATA optional)
11. Drive Cage
12. Internal 32X Max CD-ROM Drive (IDE)
13. 5.25-in Drive Bay (available)
14. 5.25-in Drive Bay (available)
15. 1.44-MB Diskette Drive
16. Speaker with Premier•Sound and fixed equalization

# QUICK SPECS

Compaq Professional  
Workstation AP500

## Standard Features

### MODELS

#### Compaq Professional Workstation AP500

Available in multiple configurations. Not all configurations available in all countries. Check with your Authorized Compaq Reseller or Compaq.

#### Processor

Intel Pentium III 550 MHz

#### Cache Memory

512-KB Level 2 cache per processor standard

#### Upgradability

Upgradable to dual processing

#### Memory – One of the following:

Standard	256 MB of 100-MHz Registered ECC SDRAM memory
Maximum	1 GB

Standard	128 MB of 100-MHz Registered ECC SDRAM memory
Maximum	1 GB

#### Network Controller

Compaq NC3161 Fast Ethernet NIC Embedded 10/100 WOL

#### Expansion Slots

I/O (Total/Available)	6, up to 5 (depending on model)
Shared PCI/ISA	1, 1
PCI	3, 3, 2, or 1 (depending on model)
ISA	1, 1
AGP	1, 1 or 0 (depending on model)

#### Storage Controller

Integrated Wide-Ultra SCSI and integrated EIDE on all models  
Symbios Wide Ultra2 SCSI PCI on select models

#### Storage

Diskette Drives	1.44 MB
CD-ROM	32X Max CD-ROM Drive IDE
Hard Drives	9.1-GB Wide Ultra2 SCSI (10,000 rpm)

#### 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
RJ-45	1

#### Graphics – One of the following:

Compaq PowerStorm 600 Graphics Controller  
3DLabs Oxygen GVX1 (AGP) Graphics Controller  
ELSA Synergy II (AGP) Graphics Controller  
Matrox Productiva G100 Quad Multi-monitor Series (PCI) Graphics Controller  
Matrox Millennium G200 (AGP) Graphics Controller

#### Audio

Integrated 16-bit *Premier•Sound* Audio  
Integrated speaker  
Integrated five stage equalizer

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## Standard Features

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### Software

Compaq Insight Manager  
Compaq SmartStart  
Compaq Management Agents for Workstations  
Compaq PC Diagnostics and Setup for Workstations  
Compaq support software  
Microsoft Windows NT Workstation 4.0  
Diagnostics for Windows NT  
Microsoft Internet Explorer 4.01  
Microsoft Service Pack 4A

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### 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)

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### 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

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### Power Supply

325-Watt Power Supply

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### 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 onsite and labor not available in all countries.

# QUICKSPECS

Compaq Professional  
Workstation AP500

## Standard Features

### Models

AP5 550S1/128/9S/2  
126967-xx1

<b>Processor</b>	Intel Pentium III 550-MHz	<b>Optical Drive</b>	32X Max CD-ROM Drive
<b>Cache Memory</b>	512-KB Level 2	<b>Hard Drive</b>	9.1-GB Wide Ultra2 SCSI 10,000 rpm
<b>Memory</b>	100-MHz ECC SDRAM	<b>Controller</b>	Wide-Ultra SCSI
Standard	128 MB	<b>Graphics</b>	Matrox Millennium G200
Maximum	1 GB	<b>Audio</b>	16-bit <i>Premier•Sound</i>
		<b>OS</b>	Windows NT Workstation 4.0

AP5 550S1/128/9S/2+  
126967-xx4

<b>Processor</b>	Intel Pentium III 550-MHz	<b>Optical Drive</b>	32X Max CD-ROM Drive
<b>Cache Memory</b>	512-KB Level 2	<b>Hard Drive</b>	9.1-GB Wide Ultra2 SCSI 10,000 rpm
<b>Memory</b>	100-MHz ECC SDRAM	<b>Controller</b>	Wide-Ultra SCSI
Standard	128 MB	<b>Graphics</b>	ELSA Synergy II
Maximum	1 GB	<b>Audio</b>	16-bit <i>Premier•Sound</i>
		<b>OS</b>	Windows NT Workstation 4.0

AP5 550S1/256/9L/3M  
126967-xx5

<b>Processor</b>	Intel Pentium III 550-MHz	<b>Optical Drive</b>	32X Max CD-ROM Drive
<b>Cache Memory</b>	512-KB Level 2	<b>Hard Drive</b>	9.1-GB Wide Ultra2 SCSI 10,000 rpm
<b>Memory</b>	100-MHz ECC SDRAM	<b>Controller</b>	Wide Ultra2 SCSI
Standard	256 MB	<b>Graphics</b>	3Dlabs Oxygen GVX1
Maximum	1 GB	<b>Audio</b>	16-bit <i>Premier•Sound</i>
		<b>OS</b>	Windows NT Workstation 4.0

AP5 550S1/256/9L/3E  
126967-xx7

<b>Processor</b>	Intel Pentium III 550-MHz	<b>Optical Drive</b>	32X Max CD-ROM Drive
<b>Cache Memory</b>	512-KB Level 2	<b>Hard Drive</b>	9.1-GB Wide Ultra2 SCSI 10,000 rpm
<b>Memory</b>	100-MHz ECC SDRAM	<b>Controller</b>	Wide Ultra2 SCSI
Standard	256 MB	<b>Graphics</b>	Compaq PowerStorm 600
Maximum	1 GB	<b>Audio</b>	16-bit <i>Premier•Sound</i>
		<b>OS</b>	Windows NT Workstation 4.0

AP5 550S1/128/9S/X  
126967-xx6 and graphics option

<b>Processor</b>	Intel Pentium III 550-MHz	<b>Optical Drive</b>	32X Max CD-ROM Drive
<b>Cache Memory</b>	512-KB Level 2	<b>Hard Drive</b>	9.1-GB Wide Ultra2 SCSI 10,000 rpm
<b>Memory</b>	100-MHz ECC SDRAM	<b>Controller</b>	Wide-Ultra SCSI
Standard	128 MB	<b>Graphics</b>	Choice of Graphics Solution: Matrox Productiva G100 Quad (101479-B21) Matrox Millennium G200 (294308-B21) ELSA Synergy II (103382-B21) 3Dlabs Oxygen GVX1 (136398-B21)
Maximum	1 GB	<b>Audio</b>	16-bit <i>Premier•Sound</i>
		<b>OS</b>	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	Japanese
XX=39	Japan: English
XX=37	Asia/Pacific: English

## Options

### Processor

Pentium III 550/512K processor upgrade	136266-B21
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### Memory (DIMMs)

256-MB Memory Module (100-MHz Registered SDRAM)	317739-B21
128-MB Memory Module (100-MHz Registered SDRAM)	317738-B21
64-MB Memory Module (100-MHz Registered 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 (Opal)	104741-xxx
TFT5010 Flat Panel Color 15-inch (Carbon)	154485-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 Productiva G100 Quad Multi-Monitor Series (PCI)	101479-B21
Matrox Millennium G200 (AGP)	294308-B21
Matrox Millennium G200 (PCI)	402544-B21
8-MB Memory Upgrade (Matrox Millennium G200 PCI)	294418-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	294402-B21
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### Hard Drives

#### Ultra3 (Ultra 160) SCSI Drives (requires Ultra3 (Ultra 160) SCSI controller)

36.4-GB Ultra3 (Ultra 160) SCSI 10,000 rpm (1.6-inch) (10K rpm drives require 10K mounting/cooling kit if installed in bays 5 or 6.)	161498-B21
18.2-GB Ultra3 (Ultra 160) SCSI 10,000 rpm (10K rpm drives require 10K mounting/cooling kit if installed in bays 5 or 6.)	159764-B21
18.2-GB Ultra3 (Ultra 160) SCSI 7200 rpm	147503-B21
9.1-GB Ultra3 (Ultra 160) SCSI 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 7200 rpm	388143-B21
9.1-GB Wide Ultra2 SCSI 7200 rpm	349526-B21
10K Drive Cooling Kit	329294-B21

#### Ultra ATA Drives

20-GB Ultra ATA 7200 rpm	124724-B21
13.5-GB Ultra ATA 7200 rpm	124723-B21
10-GB Ultra ATA 7200 rpm	127452-B21

## Options

### Storage Controllers

Compaq Dual Channel Ultra3 (Ultra 160) SCSI Controller	144387-B21
Symbios Wide Ultra2 SCSI PCI Controller	102196-B21
5-device Wide Ultra2 SCSI Cable Kit	401707-B21
Dual Channel SCSI Controller	295554-B21
5-device Wide-Ultra SCSI Cable Kit	328955-B21
Mylex AcceleRAID 150 Array Controller	402381-B21
SMART 221 Array Controller	388099-B21

### External Storage

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

### Tape Drives

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

### Biometrics

Compaq Fingerprint Identification Technology	294307-001
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### Multimedia

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

### Communications

Intel PRO/100+ Management Adapter	127453-B21
Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21
Compaq NC3122 Fast Ethernet NIC PCI Dual 10/100	317450-B21
Compaq NC6134 Gigabit NIC 64 PCI 1000SX	174818-B21
Compaq NC4621 TR PCI 4/16 WOL	379956-B21
56K ISA Fax/Modem (available in North America and Latin America)	294900-001

## Options

### Uninterruptible Power Systems

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Compaq Tower UPS Model T1500h (high voltage, not available in North America)	242688-004
Compaq Tower UPS Model T1500 (low voltage)	242688-003
Compaq Tower UPS Model T1000h (high voltage, not available in North America)	242688-002
Compaq Tower UPS Model T1000 (low voltage)	242688-001
Compaq Tower UPS Model T700h (high voltage, not available in North America)	295372-B22
Compaq Tower UPS Model T700 (low voltage)	295372-B21

### Other

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

## Memory

### Compaq Professional Workstation AP500 (128 MB)

#### STANDARD MEMORY

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

Standard	Slot			
	1	2	3	4
128 MB	128 MB	Empty	Empty	Empty

#### STANDARD MEMORY PLUS

#### OPTIONAL MEMORY

Support for up to 896 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
320 MB	128 MB	64 MB	64 MB	64 MB
512 MB	128 MB	128 MB	128 MB	128 MB
896 MB	128 MB	256 MB	256 MB	256 MB

#### STANDARD MEMORY REPLACED

#### WITH OPTIONAL MEMORY

Support for up to 1 GB of 100-MHz Registered ECC SDRAM memory is available with the removal of the standard 128-MB SDRAM module and the installation of optional 100-MHz Registered ECC SDRAM Memory Kits.

Up To	Slot			
	1	2	3	4
1024 MB	256 MB	256 MB	256 MB	256 MB

**Note:** This chart does not represent all possible memory configurations. The Compaq AP500 will support 1 GB of memory. If memory exceeds 1 GB, the unit will not boot.

- 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 AP500 (256 MB)

#### STANDARD MEMORY

256-MB 100-MHz Registered ECC SCRAM Standard (Like pairs are not required.)

Standard	Slot			
	1	2	3	4
256 MB	256 MB	Empty	Empty	Empty

#### STANDARD MEMORY PLUS

#### OPTIONAL MEMORY

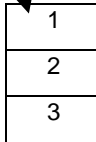
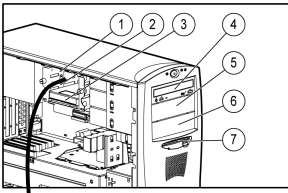
Support for up to 1 GB of 100-MHz Registered ECC SDRAM memory is available with the installation of optional Memory Kits. (Example Configuration)

Up To	Slot			
	1	2	3	4
448 MB	256 MB	64 MB	64 MB	64 MB
640 MB	256 MB	128 MB	128 MB	128 MB
1024 MB	256 MB	256 MB	256 MB	256 MB

**Note:** This chart does not represent all possible memory configurations. The Compaq AP500 will support 1 GB of memory. If memory exceeds 1 GB, the unit will not boot.

- 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

## Storage



### DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
<b>Removable Media</b>			
1.44-MB Diskette Drive	Up to 1	7	Integrated
IDE CD-ROM Drive	Up to 1	4, 5, 6	Integrated EIDE
10X DVD-ROM	Up to 1	4, 5, 6	Integrated EIDE
100-MB ATAPI ZIP Drive	Up to 1	4, 5, 6	Integrated EIDE
<b>Hard Drives</b>			
<i>Wide Ultra3 (Ultra 160) SCSI Drives</i>			
<u>1.6-inch</u> 36.4-GB 10,000 rpm	Up to 4	1, 3, 5, 6	Dual Channel Ultra3 (Ultra 160) SCSI Controller
<u>1-inch</u> 18.2-GB 10,000 rpm 18.2-GB 7200 rpm 9.1-GB 10,000 rpm	Up to 5	1, 2, 3, 5, 6	Dual Channel Ultra3 (Ultra 160) SCSI Controller
<i>Wide Ultra2 SCSI Drives</i>			
<u>1-inch</u> 18.2-GB 7200 rpm 9.1-GB 10,000 rpm 9.1-GB 7200 rpm	Up to 5	1, 2, 3, 5, 6	Symbios Wide Ultra2 SCSI PCI Controller Wide-Ultra SCSI SMART-221 Array
<i>Ultra ATA Drives</i>			
<u>1-inch</u> 20-GB 7200 rpm 13.5-GB 7200 rpm 10.0-GB 7200 rpm	Up to 3	1, 2, 3, 5, 6	Integrated EIDE
<b>Maximum Storage Capacity</b>			
Internal	144 GB		
<b>Tape Drives</b>			
TR5 10/20-GB	Up to 1	5, 6	IDE
AIT 35/70-GB Internal	Up to 1	5, 6	Wide-Ultra SCSI
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

## Technical Specifications

### System Unit

<b>Dimensions (HxWxD)</b>	
Tower	19.75 x 10 x 23.5 in/50.165 x 25.4 x 59.69 cm
Rack Mountable (5U)	8.05 x 17.7 x 20.5 in/20.45 x 44.96 x 52.07 cm
<b>Weight (standard configuration)</b>	54.5 lbs/24.72 kg
<b>Power Supply</b>	
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/3.16 kg
<b>Temperature (Values are subject to change)</b>	
Operating	50° to 86°F/10° to 35°C
Non-operating	-22° to 140°F/-30° to 60°C
<b>Humidity (non-condensing) (Values are subject to)</b>	
Operating	20% to 80%
Non-operating	5% to 90%
<b>Maximum Altitude (unpressurized)</b>	
Operating	10,000 ft/3,048 m
Non-operating	30,000 ft/9,144 m

### Compaq Keyboard

<b>Dimensions (HxWxL)</b>	1.3 x 6.4 x 18.3 in/3.3 x 16.26 x 46.48 cm
<b>Weight</b>	3.0 lbs/1.4 kg
<b>Cable Length</b>	8 ft/2.4 m

### 1.44-MB Diskette Drive

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

# QUICK SPECS

Compaq Professional  
Workstation AP500

## Technical Specifications

### Ultra3 (Ultra 160) SCSI Hard Drives

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

# QUICK SPECS

Compaq Professional  
Workstation AP500

## Technical Specifications

### Wide Ultra2 SCSI Hard Drives

<b>18.2 GB</b>	<b>Capacity</b>	18,209 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	0.8 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	5.7 ms
	<b>Interface</b>	Wide Ultra2 SCSI	Full-Stroke	12.2 ms
	<b>Transfer Rate</b>		Rotational Speed	10,000 rpm
	Synchronous (Maximum)	80 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	35,565,080
			<b>Operating Temperature</b> 50° to 95°F/10° to 35°C	
	<hr/>			
<b>9.1 GB</b>	<b>Capacity</b>	9100 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	0.8 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	5.4 ms
	<b>Interface</b>	Wide Ultra2 SCSI	Full-Stroke	12.2 ms
	<b>Transfer Rate</b>		Rotational Speed	10,000 rpm
	Synchronous (Maximum)	80 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	17,773,524
			<b>Operating Temperature</b> 50° to 95°F/10° to 35°C	
	<hr/>			
<b>9.1 GB</b>	<b>Capacity</b>	9100 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	1.9 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	7.5 ms
	<b>Interface</b>	Wide Ultra2 SCSI	Full-Stroke	15.0 ms
	<b>Transfer Rate</b>		Rotational Speed	7200 rpm
	Synchronous (Maximum)	80 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	17,773,524
			<b>Operating Temperature</b> 50° to 95°F/10° to 35°C	

# QUICK SPECS

Compaq Professional  
Workstation AP500

## Technical Specifications

### Ultra ATA Hard Drives

<b>20 GB</b>	<b>Capacity</b>	20,000 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	1.7 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	8.5 ms
	<b>Interface</b>	Ultra ATA	Full-Stroke	15.0 ms
	<b>Transfer Rate</b>		Rotational Speed	7200 rpm
	Synchronous (Maximum)	33 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	39,102,336
			<b>Operating Temperature</b> 41° to 131°F/5° to 55°C	
	<hr/>			
<b>13.5 GB</b>	<b>Capacity</b>	13,500 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	1.7 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	8.5 ms
	<b>Interface</b>	Ultra ATA	Full-Stroke	15.0 ms
	<b>Transfer Rate</b>		Rotational Speed	7200 rpm
	Synchronous (Maximum)	33 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	26,406,576
			<b>Operating Temperature</b> 41° to 131°F/5° to 55°C	
	<hr/>			
<b>10 GB</b>	<b>Capacity</b>	10,000 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	1.7 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	8.5 ms
	<b>Interface</b>	Ultra ATA	Full-Stroke	15.0 ms
	<b>Transfer Rate</b>		Rotational Speed	7200 rpm
	Synchronous (Maximum)	33 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	19,541,088
			<b>Operating Temperature</b> 41° to 131°F/5° to 55°C	

## Technical Specifications

32X Max CD-ROM  
Drive IDE

<b>Disk</b>	
Applicable Disk	CD-ROM (Mode 1 and 2) CD-DA Photo CD (Single and Multi-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	7000 rpm maximum
Center Hole	0.6 in/15 mm diameter
Thickness	0.05 in/1.2 mm
Track Pitch	1.6 $\mu$ m
<b>Block Size</b>	
Mode 1	2048 bytes
Mode 2	2340, 2336 bytes
CD-DA	2352 bytes
CD-XA	2328 bytes
<b>Interface</b>	
	IDE (ATAPI)
<b>Access Times (typical)</b>	
Random	< 100 ms
Full-Stroke	< 150 ms
<b>Audio Output Level</b>	
Line-Out	0.7 VRMS at 47 kOhms
Headphone	0.6 VRMS at 32 Ohms (maximum)
<b>Data Transfer Rate</b>	
Sustained	150 KB/s
Burst	2100 to 4800 KB/s (14X to 32X)
<b>Cache Buffer</b>	
	128 KB
<b>Start-up Time (typical)</b>	
	< 7 seconds
<b>Stop Time</b>	
	< 4 seconds
<b>Laser Parameters</b>	
Type	Semiconductor Laser GaAlAs
Wave Length	780 $\pm$ 25 nm
Divergence Angle	53.5 $^{\circ}$ $\pm$ 1.5 $^{\circ}$
Output Power	0.14mW
<b>Operating Conditions</b>	
Temperature	41 $^{\circ}$ to 113 $^{\circ}$ F/5 $^{\circ}$ to 45 $^{\circ}$ C
Humidity	10% to 80%
<b>Dimensions</b>	
(HxWxD, maximum)	1.7 x 5.9 x 8.19 in/4.29 x 15 x 20.8 cm
<b>Weight</b>	
	2.65 lbs/1.2 kg

# QUICKSPECS

Compaq Professional  
Workstation AP500

## Technical Specifications

### Premier•Sound Audio

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

### Compaq NC3161 Fast Ethernet NIC Embedded 10/100 WOL

<b>Network Interface</b>	10Base-T or 100Base-TX
<b>Expansion Bus Architecture</b>	32-bit PCI bus-master
<b>Network Transfer Rate</b>	
10Base-T (Half-Duplex)	10 Mb/s
10Base-T (Full-Duplex)	20 Mb/s
<b>Connectors</b>	
Ethernet	RJ-45 supports 10Base-T or 100Base-TX
<b>Standards Compliance</b>	
Ethernet	IEEE 802.3
100 Mb/s Ethernet	100Base-TX, IEEE 802.3u
<b>I/O Address</b>	Auto-configured
<b>Communication Processor</b>	Intel 82558



# QUICKSPECS

Compaq Professional  
Workstation AP500

## Technical Specifications

### Matrox Millennium G200 Graphics Controller

<b>Dimensions (HxW)</b>	6.13 x 3.55 in/15.57 x 9.02 cm			
<b>Resolution</b>	<b>Maximum Colors Supported/8 MB</b>	<b>Maximum Refresh Rate/8 MB</b>	<b>Maximum Colors Supported/16 MB</b>	<b>Maximum Refresh Rate/16 MB</b>
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
<b>2D Controller</b>	MGA-G200A			
<b>VGA Controller</b>	Integrated			
<b>Bus Type</b>	AGP			
<b>RAMDAC</b>	Integrated 250 MHz			
<b>Memory Type</b>	SGRAM			
<b>Memory Amount</b>	8-MB SGRAM			
<b>Maximum Memory Speed</b>	132 MHz			
<b>Data Path</b>	128 bit			
<b>Controller Clock Speed</b>	66 MHz			
<b>Maximum Pixel Clock</b>	250 MHz			
<b>Performance</b>				
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			
<b>Operating Systems</b>	Windows NT 4.0 and 3.51, Windows 95 and 98, Windows 2000			

### Matrox Productiva G100 Quad Multi-Monitor Series Graphics Controller

<b>Dimensions (HxW)</b>	4.2 x 12.28 in/10.67 x 31.19 cm	
<b>Resolution</b>	<b>Maximum Colors Supported</b>	<b>Maximum Refresh Rate</b>
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
<b>VGA Controller/Processor</b>	MGA-G100 (4)	
<b>Bus Type</b>	PCI	
<b>RAMDAC</b>	Integrated 230 MHz	
<b>Memory Type</b>	SGRAM	
<b>Memory Amount</b>	16-MB SGRAM (4 MB per port)	
<b>Data Path</b>	64 bit	
<b>Maximum Vertical Refresh Rate</b>	200 MHz	
<b>Maximum Pixel Clock</b>	230 MHz	
<b>Operating Systems</b>	Windows NT 4.0 and 3.51, Windows 95 and Windows 98	

## Technical Specifications

### ELSA Synergy II Graphics Controller

<b>Dimensions (HxW)</b>	3.25 x 6.25 in/8.3 x 15.9 cm		
<b>Resolution</b>	<b>Maximum Colors Supported</b>	<b>Maximum Refresh Rate</b>	<b>Memory Dedicated to Texture Support</b>
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
<b>3D/2D Controller</b>	Nvidia TNT 2		
<b>VGA Controller</b>	Integrated		
<b>Bus Type</b>	AGP 2X/4X		
<b>RAMDAC</b>	Integrated 300 MHz		
<b>Memory Type</b>	SDRAM		
<b>Memory Amount</b>	32 MB (Maximum)		
<b>Memory Speed</b>	143 MHz		
<b>Controller Clock Speed</b>	125 MHz		
<b>Color Planes</b>	24 bits double buffered		
<b>Stencil Planes</b>	8 bit		
<b>Alpha Planes</b>	0		
<b>Z-buffer</b>	24 bit		
<b>Total bits/pixel</b>	96		
<b>Maximum Vertical Refresh Rate</b>	120 Hz		
<b>Maximum Pixel Clock</b>	300 MHz		
<b>Multi-display support</b>	No		
<b>Operating Systems</b>	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](http://www.compaq.com/support/workstations/us/index.html).

# QUICKSPECS

Compaq Professional  
Workstation AP500

## Technical Specifications

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

<b>Dimensions (HxW)</b>	4.25 x 9.283 in/10.8 x 23.6 cm	
<b>Resolution</b>	<b>Maximum Colors Supported</b>	<b>Maximum Refresh Rate</b>
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
<b>3D Controller</b>	GLINT R3	
<b>Geometry</b>	GLINT Gamma G1	
<b>Bus Type</b>	AGP	
<b>RAMDAC</b>	Integrated	
<b>Memory Type</b>	SGRAM	
<b>Memory Amount</b>	32 MB (maximum)	
<b>Memory Speed</b>	125 MHz	
<b>Controller Clock Speed</b>	125 MHz	
<b>Color Planes</b>	24 bit double buffered	
<b>Overlay Planes</b>	8 bit shared with alpha	
<b>Stencil Planes</b>	8 bit with 24-bit Z-buffer	
<b>Alpha Planes</b>	8 bit shared with overlay	
<b>Z-buffer</b>	24 bit (32 bit with no stencil)	
<b>Total bits/pixel</b>	96	
<b>Maximum Vertical Refresh Rate</b>	120 Hz	
<b>Maximum Pixel Clock</b>	300 MHz	
<b>Operating Systems</b>	Windows NT 4.0	
<b>Dual-display Support</b>	Yes (with additional optional Oxygen GVX1 PCI card)	
<b>Stereographics Support</b>	Yes	
<b>Resolution/Refresh Rates Supported for Stereographics Functionality</b>		
<b>Resolution</b>	<b>Maximum Colors Supported</b>	<b>Maximum Refresh Rate</b>
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

<b>Rendering Engine Dimensions (HxW)</b>	12.25 x 3.875 in/31.12 x 9.84 cm		
<b>Geometry Accelerator Dimensions (HxW)</b>	12.25 x 3.875 in/31.12 x 9.84 cm		
	<b>3D Acceleration with Double Buffering, Colors Supported</b>	<b>Texture Memory</b>	<b>Maximum Refresh Rate</b>
<b>Resolution</b>			
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
<b>Rendering Engine Controller</b>	Intense3D Pro 3600		
<b>Geometry Accelerator Controller</b>	Intense3D Wildcat		
<b>VGA Controller</b>	Integrated		
<b>Bus Type</b>	PCI (rendering engine) and AGP (geometry accelerator)		
<b>RAMDAC</b>	IBM RGB640		
<b>Memory Type</b>	SDRAM		
<b>Memory Amount</b>	16-MB frame buffer, 64-MB texture memory		
<b>Memory Speed</b>	143-MHz frame buffer, 147 MHz texture memory		
<b>Data Path</b>	112 bit		
<b>Controller Clock Speed</b>	170 MHz		
<b>Maximum Vertical Refresh Rate</b>	85 Hz		
<b>Maximum Pixel Clock</b>	157 MHz		
<b>Hardware Accelerated 3D</b>			
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		
<b>3D Performance</b>			
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		
<b>Operating System</b>	Windows NT 4.0		