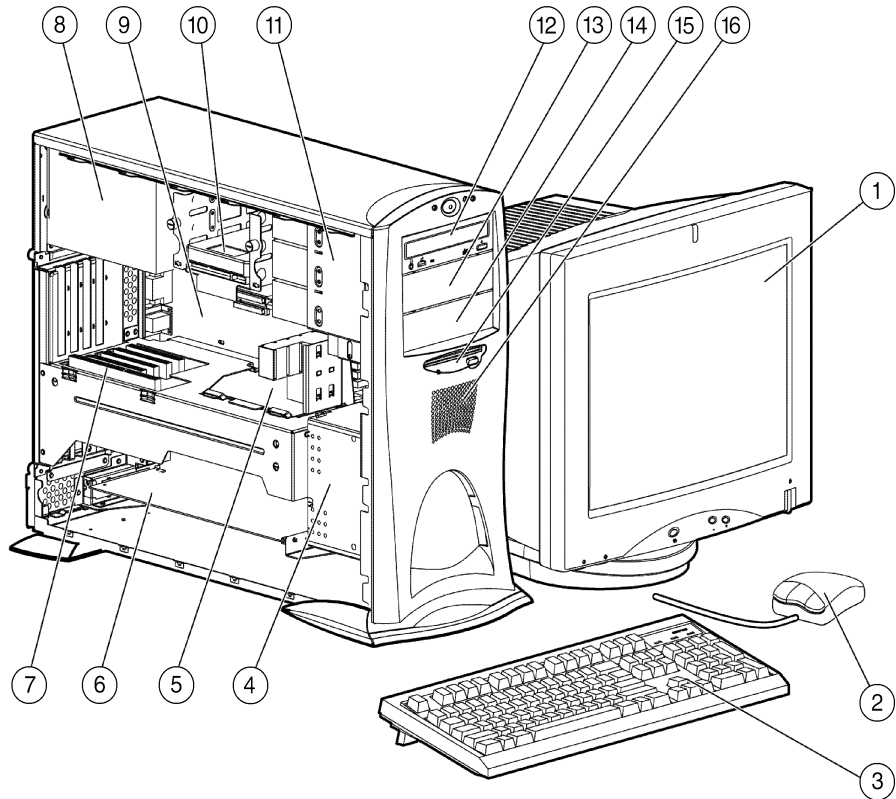


Overview

AT A GLANCE

- Minitower form factor; rack-mountable
- Supports up to two Intel Pentium® III 550 or 500-MHz or two Intel Pentium II 400- or 450-MHz processors (100-MHz Front Side Bus)
- Intel 440BX Chipset
- 512-KB writeback Level 2 cache integrated on processor
- 64, 128 or 256 MB of Registered ECC SDRAM, expandable to 1 GB
- High-performance 9.1-GB Wide Ultra2 SCSI 10,000 rpm, 9.1-GB Wide-Ultra SCSI 10,000 rpm, 4.3-GB Wide-Ultra SCSI 10,000 rpm, 4.3-GB Wide-Ultra SCSI 7,200 rpm, 10-GB Ultra ATA 7200 rpm or 6.4-GB Ultra ATA 5400 rpm SMART hard drives
- Up to 90 GB of high-performance internal storage (5 x 18.2 GB)
- Choice of Matrox Millennium II (PCI), Matrox Millennium G200 (AGP), ELSA GLoria Synergy+ (AGP) or Compaq PowerStorm 300 (AGP) 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 ISA, one AGP)
- Seven bays (four user-accessible, three internal)
- Internal 32X Max¹ CD-ROM Drive (IDE) and PremierSound™ Audio
- Multiple display support
- Windows NT Workstation 4.0 and Compaq support software pre-installed
- Protected by Compaq Services, including a three-year limited warranty²



- | | |
|---|--|
| 1. P110 Color Monitor (shown), all Compaq monitors optional | 10. 9.1-GB Wide Ultra2 SCSI 10,000 rpm, 9.1-GB Wide-Ultra SCSI 10,000 rpm, 4.3-GB Wide-Ultra SCSI 10,000 rpm, 4.3-GB Wide-Ultra SCSI 7,200 rpm, 10-GB Ultra ATA 7,200 rpm, or 6.4-GB Ultra ATA 5,400 rpm |
| 2. Compaq 3-button Mouse | 11. Drive Cage |
| 3. Compaq Keyboard | 12. Internal 32X Max ¹ CD-ROM Drive (IDE) |
| 4. Cooling Fan with Plenum | 13. 5.25-in Drive Bay (available) |
| 5. Slot Guide | 14. 5.25-in Drive Bay (available) |
| 6. Accelerated Graphics Port (AGP) Graphics Controller (pre-installed on selected models) | 15. 1.44-MB Diskette Drive |
| 7. Expansion Slots (three PCI, one shared PCI/ISA, one ISA) | 16. Speaker with PremierSound and fixed equalization |
| 8. 325-Watt Power Supply with Power Factor Correction (PFC) | |
| 9. Slide-Out System Board | |

Standard Features

MODELS

550-MHz Models

Compaq Professional Workstation AP500

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

AP5 550S1/128/9S/2+
126967-xx2

AP5 550S1/256/9L/3M
126967-xx3

500-MHz Models

Compaq Professional Workstation AP500

AP5 500S1/64/10A/2
388018-xx1

AP5 500S1/128/4S/2+
388018-xx2

AP5 500S1/128/4S/2
388018-xx3

AP5 500S1/256/9L/3M
388018-xx4

AP5 500S1/128/9S/2+
388018-xx5

450-MHz Models

Compaq Professional Workstation AP500

AP5 450S1/128/4S/2+
338500-xx2 NA/LA
338505-xx2 ROW

AP5 450S1/128/4S/3M
338500-xx3 NA/LA
338505-xx3 ROW

AP5 450S1/128/4S/2
(Millennium II)
338500-xx4 NA/LA
338505-xx4 ROW

AP5 450S1/128/4S/2 (G200)
338500-xx5 NA/LA
338505-xx5 ROW

Processor

Intel Pentium III 550 MHz
AP5 550S1/128/9S/2
AP5 550S1/128/9S/2+
AP5 550S1/256/9L/3M

Intel Pentium III 500 MHz
AP5 500S1/64/10A/2
AP5 500S1/128/4S/2+
AP5 500S1/128/4S/2
AP5 500S1/128/9S/2+
AP5 500S1/256/9L/3M

Intel Pentium II 450 MHz
AP5 450S1/128/4S/2
AP5 450S1/128/4S/2
AP5 450S1/128/4S/3M
AP5 450S1/128/4S/2+

Intel Pentium II 400 MHz
AP5 400S1/64/6A/2+

Cache Memory

512-KB Level 2 cache per processor standard

Upgradeability

Upgradeable to dual processing

Memory

Standard 256 MB of 100-MHz Registered ECC SDRAM memory
Maximum 1 GB
AP5 550S1/256/9L/3M
AP5 500S1/256/9L/3M

Standard 128 MB of 100-MHz Registered ECC SDRAM memory
Maximum 1 GB
AP5 550S1/128/9S/2
AP5 550S1/128/9S/2+
AP5 500S1/128/4S/2+
AP5 500S1/128/4S/2
AP5 500S1/128/9S/2+
AP5 450S1/128/4S/2
AP5 450S1/128/4S/2
AP5 450S1/128/4S/3M
AP5 450S1/128/4S/2+

Standard 64 MB of 100-MHz Registered ECC SDRAM memory
Maximum 1 GB
AP5 500S1/64/10A/2
AP5 400S1/64/6A/2+

Network Controller

Compaq NC3161 Fast Ethernet NIC Embedded 10/100 WOL

Expansion Slots

I/O (Total/Available) 6, 4 (depending on model)
Shared PCI/ISA 1, 1
PCI 3, 3 or 2 (depending on model)
ISA 1, 1
AGP 1, 1 or 0 (depending on model)

Standard Features

MODELS *(continued)*

400-MHz Models

Compaq Professional Workstation AP500

AP5 400S1/64/6A/2+

338500-xx1 NA/LA

338505-xx1 ROW

Country Code Key:

xx=00 US English

xx=A2 Europe: English, French,
Italian, German

xx=A4 Europe: English, French,
Dutch, Spanish

xx=29 Japan

xx=39 Japan English

xx=37 APD English

NA/LA = North America & Latin
America

ROW = Rest of World

Storage Controller

Integrated Wide-Ultra SCSI and integrated EIDE on all models

Symbios Wide Ultra2 SCSI PCI

AP5 550S1/256/9L/3M

AP5 500S1/256/9L/3M

Storage

Diskette Drives 1.44 MB

CD-ROM 32X Max¹ CD-ROM Drive IDE

Hard Drives

9.1-GB Wide Ultra2 SCSI (10,000 rpm)

AP5 550S1/256/9L/3M

AP5 500S1/256/9L/3M

9.1-GB Wide-Ultra SCSI (10,000 rpm)

AP5 550S1/128/9S/2+

AP5 550S1/128/9S/2

9.1-GB Wide-Ultra SCSI (7,200 rpm)

AP5 500S1/128/9S/2+

4.3-GB Wide-Ultra SCSI (10,000 rpm)

AP5 500S1/128/4S/2+

AP5 450S1/128/4S/3M

4.3-GB Wide-Ultra SCSI (7,200 rpm)

AP5 500S1/128/4S/2

AP5 450S1/128/4S/2+

AP5 450S1/128/4S/2

AP5 450S1/128/4S/2

10-GB Ultra ATA (7,200 rpm)

AP5 500S1/64/10A/2

6.4-GB Ultra ATA (5,400 rpm)

AP5 400S1/64/6A/2+

Interfaces

| | |
|------------------------------|-------------------|
| Parallel | 1 |
| USB | 2 |
| Serial | 2 |
| Wide-Ultra SCSI (68 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 |

Standard Features

Graphics

Compaq PowerStorm 300 (AGP) Graphics Controller

AP5 550S1/256/9L/3M

AP5 500S1/256/9L/3M

AP5 450S1/128/4S/3M

ELSA GLoria Synergy+ (AGP) Graphics Controller

AP5 550S1/128/9S/2+ (8-MB graphics controller)

AP5 500S1/128/4S/2+ (8-MB graphics controller)

AP5 500S1/128/9S/2+ (8-MB graphics controller)

AP5 450S1/128/4S/2+ (4-MB graphics controller)

AP5 400S1/64/6A/2+ (4-MB graphics controller)

Matrox Millennium G200 (AGP) Graphics Controller

AP5 500S1/128/9S/2

AP5 500S1/64/10A/2

AP5 500S1/128/4S/2

AP5 450S1/128/4S/2

Matrox Millennium II (PCI) Graphics Controller

AP5 450S1/128/4S/2

Audio

Integrated 16-bit PremierSound™ Audio

Integrated speaker

Integrated five stage equalizer

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

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 Warranty² (processors, hard drives and memory)

Security

Diskette write and boot control

Flash ROM lock

Keyboard password

Keyboard QuickLock /QuickBlank

Network server mode

Parallel interface control

Power-on password

Serial interface control

Set-up password

Cable lock provision

Standard Features

Power Supply

325 Watt Power Supply

Service and Support

Protected by Compaq Services including a three-year limited warranty² with three year parts coverage, one year on-site service, and one year labor; 7 x 24 hardware technical phone support and on-line support through the Internet; Pre-Failure Warranty² coverage of hard drives, memory, and processors.

Options

Processor

| | |
|--|------------|
| Pentium III 550/512K processor upgrade | 136266-B21 |
| Pentium III 500/512K processor upgrade | 101910-B21 |
| Pentium II 450/512K processor upgrade | 354479-B21 |
| Pentium II 400/512K processor upgrade | 317742-B21 |

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 |
| 32-MB Memory Module (100-MHz Registered SDRAM) | 317736-B21 |

Monitors³

| | |
|--|------------|
| TFT8000 Flat Panel Color (opal, no protective cover) | 307906-xxx |
| TFT8000 Flat Panel Color (carbon, no protective cover) | 307932-xxx |
| TFT8000 Flat Panel Color (opal, with protective cover) | 307931-xxx |
| TFT8000 Flat Panel Color (carbon, with protective cover) | 307935-xxx |
| TFT5000 Flat Panel Color | 325700-xxx |
| P1610 Color | 305708-xxx |
| P110 Color | 352600-xxx |
| P75 Color | 307806-xxx |
| V1000 Color | 351757-xxx |
| V900 Color | 303500-xxx |
| S900 Color | 360652-xxx |
| S700 Color | 360512-xxx |

Graphics

| | |
|--|------------|
| Matrox Productiva G100 Quad Multi-Monitor Series (PCI) | 101479-B21 |
| Matrox Millennium II (PCI) | 270246-B21 |
| 4-MB Memory Upgrade (Matrox Millennium II) | 270831-B21 |
| 12-MB Memory Upgrade (Matrox Millennium II) | 270833-B21 |
| Matrox Millennium G200 (AGP) | 294308-B21 |
| 8-MB Memory Upgrade (Matrox Millennium G200 AGP) | 294417-B21 |
| Matrox Millennium G200 (PCI) | 402544-B21 |
| 8-MB Memory Upgrade (Matrox Millennium G200 PCI) | 294418-B21 |
| ELSA GLoria Synergy+ (AGP) (4 MB) | 327533-B21 |
| 4-MB Memory upgrade (ELSA GLoria Synergy+) | 352436-B21 |
| ELSA GLoria Synergy 8-MB (PCI) | 269629-B21 |
| Compaq PowerStorm 300 (AGP) | 328778-B21 |
| Compaq PowerStorm 300 (PCI) | 317733-B21 |
| 3Dlabs Oxygen GMX (AGP) | 123882-B21 |

Diskette Drives

| | |
|------------------------|------------|
| 100-MB ATAPI ZIP Drive | 401475-B21 |
|------------------------|------------|

Hard Drives⁴

Wide Ultra2 SCSI Drives

| | |
|---|------------|
| 18.2-GB Wide Ultra2 SCSI 10,000 rpm ⁵ Drive (1.6") | 328943-B21 |
| 18.2-GB Wide Ultra2 SCSI Drive 7,200 rpm(1") | 388143-B21 |
| 9.1-GB Wide Ultra2 SCSI 10,000 rpm ⁵ (1") | 328942-B21 |
| 9.1-GB Wide Ultra2 SCSI Drive 7,200 rpm (1") | 349526-B21 |

Wide-Ultra SCSI Drives

| | |
|--|------------|
| 18.2-GB Wide-Ultra SCSI 10,000 rpm ⁵ (1.6") | 336370-B21 |
| 9.1-GB Wide-Ultra SCSI 10,000 rpm ⁵ (1") | 336369-B21 |
| 9.1-GB Wide-Ultra SCSI Hard Drive 7,200 rpm (1") | 339509-B21 |
| 10K Drive Cooling Kit | 329294-B21 |

Ultra ATA Drives

| | |
|---------------------------------------|------------|
| 6.4-GB Ultra ATA Hard Drive 5,400 rpm | 352435-B21 |
|---------------------------------------|------------|

Storage Controllers

| | |
|---|------------|
| Symbios Wide Ultra2 SCSI PCI Controller | 102196-B21 |
| 5-device Wide Ultra2 SCSI Cable Kit | 401707-B21 |
| Mylex AccelRAID 150 Array Controller | 402381-B21 |
| SMART-2SL Array Controller | 242776-B21 |

External Storage

| | |
|-----------------------|------------|
| SCSI Storage Expander | 142185-001 |
|-----------------------|------------|

Tape Drives

| | |
|----------------------------------|------------|
| Travan-5 10/20-GB IDE Tape Drive | 294243-B21 |
| 12/24-GB DDS-3 DAT Drive | 295513-B21 |
| 4/8-GB SLR Drive | 295480-B21 |

Biometrics

| | |
|--|------------|
| Compaq Fingerprint Identification Technology | 294307-001 |
|--|------------|

Multimedia

| | |
|-----------------------------------|------------|
| PremierSound PS110 Speaker | 294372-001 |
| Osprey 100 Video Capture PCI Card | 388278-B21 |
| DVD-ROM | 402555-B21 |

Options

Communications

| | |
|---|------------|
| Compaq NC3120 Fast Ethernet NIC PCI 10/100 | 317600-B21 |
| Compaq NC3121 Fast Ethernet NIC PCI 10/100 WOL | 323551-B21 |
| Compaq NC3131: 64 PCI, Dual Base 10/100 | 338456-B21 |
| Compaq NC6132: 1000SX (1-Gb NIC) Upgrade Module for NC3131 | 338456-B23 |
| Compaq NC1120 Ethernet NIC PCI 10Base-T | 317356-B21 |
| Compaq 4/16 TR PCI IBM UTP/STP | 301206-B21 |
| Compaq 4/16 TR PCI UTP/STP | 268009-001 |
| Compaq NC4621 TR PCI 4/16 WOL | 379956-B21 |
| Compaq 100 FDDI PCI SAS Fiber-SC | 242505-001 |
| Compaq 100 FDDI PCI DAS Fiber-UTP | 242511-001 |
| Compaq 100 FDDI PCI SAS Fiber-UTP | 242507-001 |
| Compaq 100 FDDI PCI SAS Fiber-MIC | 287728-001 |
| Compaq 56K PCI Modem | 321500-xx1 |
| Compaq 610 ISDN ISA Controller ⁶ | 333056-B31 |
| Compaq Microcom 705 Corporate Communicator ⁷ | 294700-001 |

Uninterruptible Power Systems

| | |
|--|------------|
| Compaq Tower UPS Model T1500h ⁶ (high voltage) | 242688-004 |
| Compaq Tower UPS Model T1500 (low voltage) | 242688-003 |
| Compaq Tower UPS Model T1000h ⁶ (high voltage) | 242688-002 |
| Compaq Tower UPS Model T1000 (low voltage) | 242688-001 |
| Compaq Tower UPS Model T700h ⁶ (high voltage) | 295372-B22 |
| Compaq Tower UPS Model T700 (low voltage) | 295372-B21 |

Other

| | |
|---|------------|
| Rack Mount Conversion Kit | 338544-B21 |
| Compaq Spaceball 4000 3D Motion Control Input Device | 112138-B21 |
| Compaq Spaceball 3003 3D Input Device | 299391-B22 |
| Magellan/Space Mouse 3D Input Device ⁶ | 299390-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 |
| Warranty Extension ServicePAQ ⁸ | 269423-001 |

Memory

Compaq Professional Workstation AP500 (64 MB)

STANDARD MEMORY

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

| Standard | Slot | | | |
|----------|------|-------|-------|-------|
| | 1 | 2 | 3 | 4 |
| 64 MB | 64MB | Empty | Empty | Empty |

STANDARD MEMORY PLUS

OPTIONAL MEMORY

Support for up to 832 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 |
| 160 MB | 64MB | 32MB | 32MB | 32MB |
| 256 MB | 64MB | 64MB | 64MB | 64MB |
| 448 MB | 64MB | 128MB | 128MB | 128MB |
| 832 MB | 64MB | 256MB | 256MB | 256MB |

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 64-MB SDRAM module and the installation of optional 100-MHz Registered ECC SDRAM Memory Kits.

| Up To | Slot | | | |
|---------|-------|-------|-------|-------|
| | 1 | 2 | 3 | 4 |
| 512 MB | 128MB | 128MB | 128MB | 128MB |
| 1024 MB | 256MB | 256MB | 256MB | 256MB |

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
- 32-MB 100-MHz Registered ECC SDRAM Memory Kit 317736-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 |
| 224 MB | 128 MB | 32 MB | 32 MB | 32 MB |
| 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
- 32-MB 100-MHz Registered ECC SDRAM Memory Kit 317736-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)

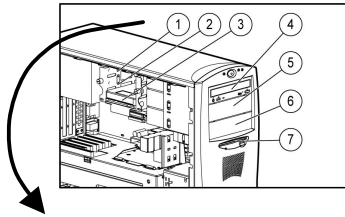
| Up To | Slot | | | |
|---------|--------|--------|--------|--------|
| | 1 | 2 | 3 | 4 |
| 352 MB | 256 MB | 32 MB | 32 MB | 32 MB |
| 448 MB | 256 MB | 64 MB | 64 MB | 64 MB |
| 640 MB | 256 MB | 128 MB | 128 MB | 128 MB |
| 1024 MB | 256 MB | 256 MB | 256 MB | 256 MB |

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
- 32-MB 100-MHz Registered ECC SDRAM Memory Kit 317736-B21

Storage

DRIVE SUPPORT



| |
|---|
| 1 |
| 2 |
| 3 |

| | 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 | Integrated IDE |
| Hard Drives¹ | | | |
| <i>Wide Ultra2 SCSI Drives</i> | | | |
| 1-inch 18.2-GB 7,200 rpm 9.1-GB 10,000 rpm ⁵ 9.1-GB 7,200 rpm | Up to 5 | 1, 2, 3, 5, 6 | Symbios Wide Ultra2 SCSI PCI Controller Wide-Ultra SCSI SMART-2SL Array |
| 1.6-inch 18.2-GB 10,000 rpm ⁵ | Up to 4 | 1, 3, 5, 6 | |
| <i>Wide-Ultra SCSI Drives</i> | | | |
| 1-inch 9.1-GB 10,000 rpm ⁵ 9.1-GB 7,200 rpm 4.3-GB 10,000 rpm ⁵ 4.3-GB 7,200 rpm | Up to 5 | 1, 2, 3, 5, 6 | Symbios Wide Ultra2 SCSI PCI Controller Wide-Ultra SCSI SMART-2SL Array |
| 1.6-inch 18.2-GB 10,000 rpm ⁵ | Up to 4 | 1, 3, 5, 6 | |
| <i>Ultra ATA Drives</i> | | | |
| 1-inch 10.0-GB 7,200 rpm 6.4-GB 5,400 rpm | Up to 3 | 1, 2, 3, 5, 6 | Integrated IDE |
| Maximum Storage Capacity | | | |
| Internal: | 90 GB | | |
| Tape Drives | | | |
| Travan-5 10/20-GB IDE | Up to 2 | 5, 6 | IDE |
| 12/24-GB DDS-3 DAT | Up to 2 | 5, 6 | Wide-Ultra SCSI |
| 4/8-GB SLR | Up to 2 | 5, 6 | Wide-Ultra SCSI |

Technical Specifications

System Unit

| | |
|--|--|
| Dimensions (HxWxD) | |
| 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 |
| Weight (standard configuration) | 54.5 lbs/24.72 kg |
| Power Supply | |
| Operating Voltage Range | 90 VAC – 264 VAC |
| Rated Voltage Range | 100 VAC – 120 VAC; 200 VAC – 240 VAC |
| Rated Line Frequency | 50 Hz – 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 |
| Temperature⁹ | |
| Operating | 50° to 86°F/10° to 35°C |
| Non-operating | -22° to 140°F/-30° to 60°C |
| Humidity⁹ (non-condensing) | |
| Operating | 20% to 80% |
| Non-operating | 5% to 90% |
| Maximum Altitude (unpressurized) | |
| Operating | 10,000 ft/3048 m |
| Non-operating | 30,000 ft/9144 m |

Compaq Keyboard

| | |
|---------------------------|--|
| Dimensions (HxWxL) | 1.3 x 6.4 x 18.3 in/3.3 x 16.26 x 46.48 cm |
| Weight | 3.0 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) | 169/94 ms |
| Settling Time | 15 ms |
| Latency Average | 100 ms |
| Cylinders (high/low) | 80/80 |
| Read/Write Heads | Two |

Technical Specifications

Wide Ultra2 SCSI Hard Drives⁴

| | | | | |
|-----------------------------|-----------------------------|------------------|--|--|
| 18.2 GB 10K ⁵ | Capacity | 18,209.3 MB | Seek Time (typical reads, including settling) | |
| | Height | 1.6 in/40.6 mm | Single Track | 0.8 ms |
| | Width | 3.5 in/88.9 mm | Average | 5.7 ms |
| | Interface | Wide Ultra2 SCSI | Full-Stroke | 12.2 ms |
| | Transfer Rate | | Rotational Speed | 10,000 rpm |
| | Synchronous (Maximum) | 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 10K ⁵ | Capacity | 18,209.3 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 | | Wide Ultra2 SCSI | Full-Stroke | 15.0 ms |
| Transfer Rate | | | Rotational Speed | 7,200 rpm |
| Synchronous (Maximum) | | 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 10K ⁵ | | Capacity | 9100.0 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 | Full-Stroke | 12.2 ms |
| | Transfer Rate | | Rotational Speed | 10,000 rpm |
| | Synchronous (Maximum) | 80 MB/s | Physical Configuration | |
| | | | Bytes/Sector | 512 |
| | | | Logical Blocks | 17,773,524 |
| | | | Operating Temperature 50° to 95°F/10° to 35°C | |
| | 9.1 GB 10K ⁵ | Capacity | 9100.0 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 | 15.0 ms |
| Transfer Rate | | | Rotational Speed | 7,200 rpm |
| Synchronous (Maximum) | | 80 MB/s | Physical Configuration | |
| | | | Bytes/Sector | 512 |
| | | | Logical Blocks | 17,773,524 |
| | | | Operating Temperature 50° to 95°F/10° to 35°C | |

QUICK SPECS

Compaq Professional
Workstation AP500

Technical Specifications

Wide-Ultra SCSI Hard Drives⁴

| | | | | |
|------------------------------------|--------------------------|-----------------|--|------------|
| 18.2 GB 10K⁵ | Capacity | 18209.8 MB | Seek Time (typical reads, including settling) | |
| | Height | 1.6 in/40.6 mm | Single Track | 0.8 ms |
| | Width | 3.5 in/88.9 mm | Average | 5.7 ms |
| | Interface | Wide-Ultra SCSI | Full-Stroke | 12.2 ms |
| | Transfer Rate | | Rotational Speed | 10,000 rpm |
| | Synchronous (Maximum) | 40 MB/s | Physical Configuration | |
| | | | Bytes/Sector | 512 |
| | | | Logical Blocks | 35,566,000 |
| | | | Operating Temperature 50° to 95°F/10° to 35°C | |
| | <hr/> | | | |
| 9.1 GB 10K⁵ | Capacity | 9100.0 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-Ultra SCSI | Full-Stroke | 12.2 ms |
| | Transfer Rate | | Rotational Speed | 10,000 rpm |
| | Synchronous (Maximum) | 40 MB/s | Physical Configuration | |
| | | | Bytes/Sector | 512 |
| | | | Logical Blocks | 17,773,500 |
| | | | Operating Temperature 50° to 95°F/10° to 35°C | |
| | <hr/> | | | |
| 9.1 GB | Capacity | 9100.0 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-Ultra SCSI | Full-Stroke | 15.0 ms |
| | Transfer Rate | | Rotational Speed | 7,200 rpm |
| | Synchronous (Maximum) | 40 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-Ultra SCSI Hard Drives⁴ (continued)

| | | | | |
|-----------------------------------|--------------------------|-----------------|--|------------|
| 4.3 GB 10K⁵ | Capacity | 4293.6 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-Ultra SCSI | Full-Stroke | 12.2 ms |
| | Transfer Rate | | Rotational Speed | 10,000 rpm |
| | Synchronous (Maximum) | 40 MB/s | Physical Configuration | |
| | | | Bytes/Sector | 512 |
| | | | Logical Blocks | 8,386,000 |
| | | | Operating Temperature 50° to 95°F/10° to 35°C | |

| | | | | |
|---------------|--------------------------|-----------------|--|-----------|
| 4.3 GB | Capacity | 4293.6 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 | 8.8 ms |
| | Interface | Wide-Ultra SCSI | Full-Stroke | 17.0 ms |
| | Transfer Rate | | Rotational Speed | 7,200 rpm |
| | Synchronous (Maximum) | 40 MB/s | Physical Configuration | |
| | | | Bytes/Sector | 512 |
| | | | Logical Blocks | 8,386,000 |
| | | | Operating Temperature 50° to 95°F/10° to 35°C | |

Ultra ATA Hard Drives

| | | | | |
|--------------|--------------------------|----------------|--|------------|
| 10 GB | Capacity | 10,000 MB | Seek Time (typical reads, including settling) | |
| | Height | 1 in/25.4 mm | Single Track | 1.7 ms |
| | Width | 3.5 in/88.9 mm | Average | 8.5 ms |
| | Interface | Ultra ATA | Full-Stroke | 15.0 ms |
| | Transfer Rate | | Rotational Speed | 7,200 rpm |
| | Synchronous (Maximum) | 33.3 MB/s | Physical Configuration | |
| | | | Bytes/Sector | 512 |
| | | | Logical Blocks | 19,541,088 |
| | | | Operating Temperature 41° to 131°F/5° to 55°C | |

| | | | | |
|---------------|--------------------------|----------------|--|------------|
| 6.4 GB | Capacity | 6448.6 MB | Seek Time (typical reads, including settling) | |
| | Height | 1 in/25.4 mm | Single Track | 2.0 ms |
| | Width | 3.5 in/88.9 mm | Average | 9.5 ms |
| | Interface | Ultra ATA | Full-Stroke | 20.0 ms |
| | Transfer Rate | | Rotational Speed | 5,400 rpm |
| | Synchronous (Maximum) | 33.3 MB/s | Physical Configuration | |
| | | | Bytes/Sector | 512 |
| | | | Logical Blocks | 12,594,960 |
| | | | Operating Temperature 41° to 131°F/5° to 55°C | |

Technical Specifications

32X Max¹ CD-ROM
Drive IDE

| | |
|--------------------------------|---|
| Disk | |
| 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 μ m |
| Block Size | |
| Mode 1 | 2048 bytes |
| Mode 2 | 2340, 2336 bytes |
| CD-DA | 2352 bytes |
| CD-XA | 2328 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 – 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 | 0.14mW |
| 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 15.0 x 20.8 cm |
| Weight | 2.65 lbs/1.2 kg |

QUICKSPECS

Compaq Professional
Workstation AP500

Technical Specifications

PremierSound™ Audio

| | |
|--|--|
| Type | ESS 1869 <i>AudioDrive</i> ® 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 |

Technical Specifications

Matrox Millennium II Graphics Controller

| | | | |
|---|---|---|--|
| Dimensions (H x W) | 7.25 x 4.75 in/18.4 x 12.1 cm | | |
| | Standard 4-MB WRAM, Maximum Colors Supported | Requires 8-MB WRAM, Maximum Colors Supported | Requires 16-MB WRAM, Maximum Colors Supported |
| Resolution | | | |
| 640 x 480 | 16.7M | 16.7M | 16.7M |
| 800 x 600 | 16.7M | 16.7M | 16.7M |
| 1024 x 768 | 16.7M | 16.7M | 16.7M |
| 1152 x 864 | 16.7M | 16.7M | 16.7M |
| 1280 x 1024 | 16.7M | 16.7M | 16.7M |
| 1600 x 1024 | 65,536 | 16.7M | 16.7M |
| 1600 x 1200 | 65,536 | 16.7M | 16.7M |
| 1920 x 1034 | 65,536 | 16.7M | 16.7M |
| 1920 x 1080 | 65,536 | 16.7M | 16.7M |
| 1920 x 1200 | 256 | 65,536 | 65,536 |
| 1800 x 1440 | 256 | 65,536 | 65,536 |
| Acceleration | 2D GUI | | |
| 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 (standard) | 4 MB | | |
| Memory Upgrade | 4-MB or 12-MB upgrade | | |
| Maximum Memory | 16 MB | | |
| Memory Speed | 50 ns | | |
| Data Path | 64 bit | | |
| Controller Clock Speed | 66 MHz with 4 MB base | | |
| Maximum Possible Vertical Refresh Rate | 200 Hz | | |
| Maximum Possible Horizontal Scan Rate | 114 kHz | | |
| Maximum Pixel Rate | 250 MHz | | |
| Engine Acceleration | | | |
| Scaling | Yes | | |
| Color Space Conversion | Yes | | |
| BitBLT | Yes | | |
| Line Draw | Yes | | |
| Polygon | Yes | | |
| 3D | Yes | | |
| Performance | | | |
| Random 10-Pixel Solid Lines | 310 K/s | | |
| Filled 25-Pixel Triangles | 140 K/s | | |
| Operating Systems | Windows NT 4.0 and 3.51, Windows 95, Windows 98 | | |

Technical Specifications

Matrox Millennium G200 (AGP) Graphics Controller

| | | | | |
|-------------------------------|--|----------------------------------|---------------------------------------|-----------------------------------|
| Dimensions (H x W) | 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 (standard; upgradable to 16 MB) | | | |
| 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 | | | |

Technical Specifications

ELSA GLoria Synergy+ (AGP) Graphics Controller

| | | | | |
|-------------------------------|--|----------------------------------|--------------------------------------|----------------------------------|
| Dimensions (H x W) | 7.75 x 5 in/19.68 x 15.24 cm | | | |
| Resolution | Maximum Colors Supported/4 MB | Maximum Refresh Rate/4 MB | Maximum Colors Supported/8 MB | Maximum Refresh Rate/8 MB |
| 640 x 480 | 16.7M | 100 Hz | 16.7M | 100 Hz |
| 800 x 600 | 16.7M | 100 Hz | 16.7M | 100 Hz |
| 1024 x 768 | 16.7M | 100 Hz | 16.7M | 100 Hz |
| 1152 x 864 | 16.7M | 100 Hz | 16.7M | 100 Hz |
| 1280 x 1024 | 32,768 | 100 Hz | 16.7M | 80 Hz |
| 1536 x 1152 | 32,768 | 85 Hz | 32,768 | 85 Hz |
| 1600 x 1000 | 32,768 | 100 Hz | 32,768 | 100 Hz |
| 1600 x 1200 | 32,768 | 85 Hz | 32,768 | 85 Hz |
| 1600 x 1280 | 32,768 | 75 Hz | 32,768 | 85 Hz |
| 1920 x 1080 | 256 | 80 Hz | 32,768 | 80 Hz |
| 1920 x 1200 | 256 | 75 Hz | 32,768 | 75 Hz |
| 3D/2D Controller | 3Dlabs Permedia-2A | | | |
| VGA Controller | Integrated | | | |
| Bus Type | AGP | | | |
| RAMDAC | Integrated 250 MHz | | | |
| Memory Type | SGRAM | | | |
| Memory Amount | 4 or 8-MB SGRAM (depending on the model) | | | |
| Memory Speed | 8 ns | | | |
| Data Path | 64 bit | | | |
| Controller Clock Speed | 90 MHz | | | |
| Maximum Pixel Clock | 250 MHz at 8 bpp and 16 bpp/5:5:5 145 MHz at 32 bpp/8:8:8 | | | |
| Performance | 800K polygons/s – textured mapped | | | |
| Primitives | 83 million pixels/s – perspective corrected, bilinear filtered, texture mapped | | | |
| Fill rate | | | | |
| Operating Systems | Windows NT 4.0 and 3.51, Windows 95, Windows 98 | | | |

Technical Specifications

Compaq PowerStorm
300 (AGP) Graphics
Controller

| | | | |
|--|--|-----------------------|-----------------------------|
| Dimensions (H x W) | 3.25 x 12.28 in/ 8.26 x 31.19 cm | | |
| | 3D Acceleration with Double Buffering, Colors Supported | Texture Memory | Maximum Refresh Rate |
| Resolution | | | |
| 800 x 600 | 16.7M | 16 MB | 75 Hz |
| 1024 x 768 | 16.7M | 16 MB | 85 Hz |
| 1280 x 1024 | 16.7M | 16 MB | 85 Hz |
| 3D/2D Controller | Evans & Sutherland REALImage 2100 | | |
| VGA Controller | Integrated | | |
| Bus Type | AGP (PCI Optional) | | |
| RAMDAC | IBM RGB640 | | |
| Memory Type | 3D RAM and CDRAM | | |
| Memory Amount | 15-MB 3D RAM, 16-MB CDRAM | | |
| Memory Speed | 10-ns 3D RAM, 10-ns CDRAM | | |
| Data Path | 64-bit | | |
| Controller Clock Speed | 100 MHz | | |
| Maximum Vertical Refresh Rate | 85 Hz | | |
| Maximum Pixel Clock | 220 MHz | | |
| Hardware Accelerated 3D | | | |
| 24-bit Z-buffering | Yes | | |
| Gouraud shading | Yes | | |
| Stencils | Yes | | |
| Texture mapping (bilinear and trilinear) | Yes | | |
| Performance | | | |
| Random 10-Pixel Solid Lines | 4 M/s | | |
| Filled 25-Pixel Triangles | 4 M/s | | |
| Pixel Fill Rate | | | |
| Bilinear | 90 M/s | | |
| Trilinear | 45 M/s | | |
| Operating System | Windows NT 4.0 | | |

¹ Data transfer rates will vary from 150 KB/s to 4800 KB/s.

² Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

³ AssetControl monitor. AssetControl features are accessible with Compaq Workstations featuring Intelligent Manageability.

⁴ For complete compatibility information, refer to the Compaq SCSI Hard Drive Compatibility table located at <http://www.compaq.com/products/servers/storage/index-drives.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.

⁵ 10K rpm drives require 10K mounting/cooling kit if installed in bays 5 or 6.

⁶ Not available in North America.

⁷ Available in North America and Latin America.

⁸ ServicePAQ facilitates registration of a Workstation for two additional years of onsite service; extensions also available via PaqFax number 1225. Not available in all countries.

⁹ Values are subject to change.