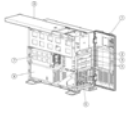


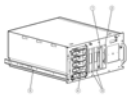
QuickSpecs

Compaq *ProLiant* 1600 Pentium III Models



Tower Models

1. Front Bezel
2. 1.44-MB Diskette Drive
3. High speed IDE CD-ROM Drive
4. Two available Removable Media Bays
5. Wide Ultra2/Ultra3 SCSI Hot Plug Drive Cage (6 x 1")
6. Power Supply
7. Processor Cage
8. Small access panel



Rack Models

1. High Speed IDE CD-ROM Drive
2. 1.44-MB Diskette Drive
3. Two available Removable Media Bays
4. Wide Ultra2/Ultra3 SCSI Hot Plug Drive Cage (6 x 1")
5. Side Rails

What's New

- The Compaq ProLiant 1600 now even faster, supporting 9.1 GB, 18.2 GB Wide Ultra SCSI-3 15K hard drives

At A Glance

- Intel Pentium III processor 600 MHz, 550 MHz or 500 MHz (dual processor capability)
- 512-KB second level ECC cache standard
- 100-MHz GTL Bus Design

- 128-MB 100-MHz registered ECC SDRAM memory standard, expandable to 1 GB
- Two PCI and four shared PCI/ISA slots, (six total slots)
- Compaq 10/100 TX PCI UTP Controller (embedded) on the PCI local bus
- Integrated Dual Channel Wide-Ultra SCSI-3 Adapter
- Wide Ultra2/Ultra3 SCSI Drive Cage standard
- Support for up to six 1-inch Wide Ultra2/Ultra3 SCSI hot plug drives
- 218.4-GB maximum internal storage (internal hot plug drive cage) (6 x 36.4 GB 1 " drives)
- Integrated Management Display (IMD) (optional)
- Compaq Hot Plug Redundant Power Supply (optional)
- Compaq Insight Manager, SmartStart, Integrated Remote Console (IRC) and Automatic Server Recovery-2 (ASR-2)
- Protected by Compaq Services, including a three-year, Next Business Day on-site limited Global warranty and extended Pre-Failure Warranty which covers processors, memory and hard drives - Certain restrictions and exclusions apply. Consult the Compaq Customer Support

contents

- ✦ [Overview](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Standard Features](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Options](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Memory](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Storage](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [TechSpecs](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)

Standard Features

Models

Compaq *ProLiant*™ 1600 Pentium III Models

Available in multiple configurations.

Processor - One of the following:
Intel Pentium III processor 600 MHz
Intel Pentium III processor 550 MHz
Intel Pentium III processor 500 MHz

Cache Memory

512-KB second level ECC cache

Upgradability

Upgradeable to dual processing

Memory

| | |
|----------|--|
| Standard | 128 MB (100-MHz registered ECC SDRAM memory) |
| Maximum | 1 GB |

Network Controller

Compaq 10/100 TX PCI UTP controller (embedded) on the PCI local bus

Expansion Slots

| | |
|----------------|---|
| I/O (Total) | 6 |
| PCI | 2 |
| Shared PCI/ISA | 4 |

Storage Controller

Integrated Dual Channel Wide-Ultra SCSI-3 Adapter

Storage

| | |
|--------------------------|--|
| Diskette Drive | 1.44 MB |
| CD-ROM | High Speed IDE CD-ROM Drive |
| Hard Drives | None |
| Maximum Internal Storage | 218.4 GB (6 x 36.4 GB Wide Ultra3 1" drives) (internal hot plug drive cage only) |

Interfaces

| | |
|----------------------------|---|
| Parallel | 1 |
| Serial | 2 |
| Pointing Device (Mouse) | 1 |
| Graphics | 1 |
| Hot Plug Keyboard | 1 |
| External Wide-Ultra SCSI-3 | 1 |
| Network RJ-45 | 1 |

Graphics

Integrated 1024 x 768, 256 color non-interlaced on PCI local bus, 1-MB video memory

Form Factor

Tower or Rack (5U)
Rack ships with sliding rails and cable management

Compaq Software

| | |
|--|--|
| Compaq Insight Manager | The comprehensive system management tool that monitors the operation of Compaq servers, workstations and clients |
| Compaq SmartStart | The server configuration and software integration tool from Compaq |
| Array Configuration Utility (ACU) with | Same easy to use yet powerful graphical user Interface (GUI) configuration utility and easy to |

Smart Array Controllers navigate wizards for all Smart Array Controllers

Manageability

Compaq Insight Manager
Compaq Remote Insight Board (PCI) (optional)
Automatic Server Recovery-2 (ASR-2)
Integrated Remote Console (IRC)
Hardware Remote Console
Full Remote Server Reboot Capability
Reset and Failure Sequence Replay
Host Hardware Independent
Operating System Independent
Communication is out-of-band
Integrated Management Display (IMD) optional
Integrated Management Log
Server Health Logging
Revision History Table
Automatic Revision Tracking
Drive Parameter Tracking (with Smart Array controller)
Dynamic Sector Repairing (with Smart Array controller)
Recovery Server Option (optional)
Off-Line Backup Processor capability
Pre-Failure Warranty (covers processors, hard drives and memory)

Security

Power-on password
Hot plug keyboard password
Diskette drive control
Diskette boot control
QuickLock, Network Server Mode
Parallel and serial interface control
Administrator's password
Disk configuration lock

Power Supply

325 Watt-CE Mark Compliant

Required Cabling

For required cabling information, refer to the Compaq web site at
<<http://www.compaq.com/products/servers/proliant1600>> or
<<http://www.compaq.com/products/servers/proliant/1600r>>.

Note: This web site available in English only.

OS Support

Microsoft Windows NT
Microsoft Windows 2000
Microsoft BackOffice Small Business Server
Novell NetWare
Novell NetWare Small Business Suite
SCO OpenServer
SCO UnixWare
IBM OS/2 Warp Family
LINUX
Sun Solaris Intel Platform Edition
Banyan VINES

Note: For a more complete and up-to-date listing of supported OS's and versions, please visit our

OS Support Matrix at: <ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf>.

Note: For an up-to-date listing of the latest drivers available for the Compaq ProLiant 1600, please see: <http://www.compaq.com/support/files/server/us/index.html>

Service and Support

Compaq Services provides a three-year, limited warranty, including Pre-Failure Warranty (coverage of hard drives, memory and processors) fully supported by a worldwide network of resellers and service providers and lifetime toll-free 7 x 24 hardware technical phone support. In addition, available service offerings include:

A full range of CarePac packaged hardware and software services:

- Installation and start up
- Extended coverage hours and enhanced response times
- System management and performance services
- Availability and recovery services

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.

Tower Models

| | | | |
|-----------------------------------|-------------------------------------|----------------------------------|---|
| 6/600 Model 1 Processor(s) | Intel Pentium III processor 600 MHz | Network Controller | 153552-xx1 10/100 TX PCI UTP controller |
| Cache Memory | 512-KB second level ECC cache | Storage Controller | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter |
| Memory | 100-MHz registered ECC SDRAM | Internal Storage | 218.4 GB max |
| Standard | 128 MB | Optical Drive Form Factor | High Speed IDE CD-ROM Drive Tower (5U) |
| Maximum | 1 GB | | |
| 6/550 Model 1 Processor(s) | Intel Pentium III processor 550 MHz | Network Controller | 123737-xx1 10/100 TX PCI UTP controller |
| Cache Memory | 512-KB second level ECC cache | Storage Controller | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter |
| Memory | 100-MHz registered ECC SDRAM | Internal Storage | 218.4 GB max |
| Standard | 128 MB | Optical Drive Form Factor | High Speed IDE CD-ROM Drive Tower (5U) |
| Maximum | 1 GB | | |
| 6/500 Model 1 Processor(s) | Intel Pentium III processor 500 MHz | Network Controller | 386746-xx1 10/100 TX PCI UTP controller |
| Cache Memory | 512-KB second level ECC cache | Storage Controller | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter |
| Memory | 100-MHz registered ECC SDRAM | Internal Storage | 218.4 GB max |

| | | | |
|----------|--------|----------------------------------|--|
| Standard | 128 MB | Optical Drive Form Factor | High Speed IDE CD-ROM Drive Tower (5U) |
| Maximum | 1 GB | | |

Rack Models

| | | | |
|-----------------------------------|-------------------------------------|---------------------------|--|
| 6/600 Model 1 Processor(s) | Intel Pentium III processor 600 MHz | Network Controller | 153551-xx1 10/100 TX PCI UTP controller |
|-----------------------------------|-------------------------------------|---------------------------|--|

| | | | |
|---------------------|-------------------------------|---------------------------|---|
| Cache Memory | 512-KB second level ECC cache | Storage Controller | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter 218.4 GB max |
|---------------------|-------------------------------|---------------------------|---|

| | | | |
|---------------|------------------------------|----------------------------------|--|
| Memory | 100-MHz registered ECC SDRAM | Internal Storage | |
| Standard | 128 MB | Optical Drive Form Factor | High Speed IDE CD-ROM Drive 5U Rack |
| Maximum | 1 GB | | |

| | | | |
|-----------------------------------|-------------------------------------|---------------------------|--|
| 6/550 Model 1 Processor(s) | Intel Pentium III processor 550 MHz | Network Controller | 123738-xx1 10/100 TX PCI UTP controller |
|-----------------------------------|-------------------------------------|---------------------------|--|

| | | | |
|---------------------|-------------------------------|---------------------------|---|
| Cache Memory | 512-KB second level ECC cache | Storage Controller | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter 218.4 GB max |
|---------------------|-------------------------------|---------------------------|---|

| | | | |
|---------------|------------------------------|----------------------------------|--|
| Memory | 100-MHz registered ECC SDRAM | Internal Storage | |
| Standard | 128 MB | Optical Drive Form Factor | High Speed IDE CD-ROM Drive 5U Rack |
| Maximum | 1 GB | | |

| | | | |
|-----------------------------------|-------------------------------------|---------------------------|--|
| 6/500 Model 1 Processor(s) | Intel Pentium III processor 500 MHz | Network Controller | 386747-xx1 10/100 TX PCI UTP controller |
|-----------------------------------|-------------------------------------|---------------------------|--|

| | | | |
|---------------------|-------------------------------|---------------------------|---|
| Cache Memory | 512-KB second level ECC cache | Storage Controller | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter 218.4 GB max |
|---------------------|-------------------------------|---------------------------|---|

| | | | |
|---------------|------------------------------|----------------------------------|--|
| Memory | 100-MHz registered ECC SDRAM | Internal Storage | |
| Standard | 128 MB | Optical Drive Form Factor | High Speed IDE CD-ROM Drive 5U Rack |
| Maximum | 1 GB | | |

Country Code Key

| | |
|-------|-------|
| XX=00 | US |
| XX=02 | Int'l |
| XX=29 | Japan |
| XX=37 | APD |
| XX=AA | PRC |

- ✦ [Overview](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Standard Features](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Options](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Memory](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Storage](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [TechSpecs](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)

Options

Processor

| | |
|---|------------|
| 6/600 Pentium III 512K Processor Option Kit | 153555-B21 |
| 6/550 Pentium III 512K Processor Option Kit | 124779-B21 |
| 6/500 Pentium III 512K Processor Option Kit | 401268-B21 |

Note: To Upgrade 400 MHz, 450 MHz, or 500 MHz models to the 550 MHz or 600 MHz or when upgrading a 550 MHz to the 600 MHz model, installation of an additional Thermal Upgrade Option Kit (144003-B22) is required. Failure to install this kit when upgrading may cause damage to the server and will void the warranty.

Memory

| | |
|---|------------|
| 256-MB 100MHz Registered ECC SDRAM Memory Kit | 313616-B21 |
| 128-MB 100MHz Registered ECC SDRAM Memory Kit | 313615-B21 |
| 64-MB 100MHz Registered ECC SDRAM Memory Kit | 313614-B21 |

Optical Drives

| | |
|--|------------|
| DVD-ROM Drive Option Kit (Opal) (DVD-ROM Drive Option Kit only supported by Windows NT or Windows 2000 OS.) | 388481-B21 |
| DVD-ROM Drive Option Kit (Japan) (DVD-ROM Drive Option Kit only supported by Windows NT or Windows 2000 OS.) | 388481-291 |

Internal Storage

| | |
|--|------------|
| Wide-Ultra SCSI-3 Duplexing Drive Cage Option Kit (When using hot plug Wide Ultra SCSI-3 Drives in the Pentium III Models, Duplexing Drive Cage (264368-xx1) or the Wide Ultra SCSI-3 Drive cage (271912-xx1) are required.) | 264368-001 |
| Wide-Ultra SCSI-3 Duplexing Drive Cage Option Kit (Japan) (When using hot plug Wide Ultra SCSI-3 Drives in the Pentium III Models, Duplexing Drive Cage (264368-xx1) or the Wide Ultra SCSI-3 Drive cage (271912-xx1) are required.) | 264368-291 |
| Wide-Ultra SCSI-3 Hot Plug Drive Cage (5 x 1") Option Kit ((When using hot plug Wide Ultra SCSI-3 Drives in | 271912-001 |

the Pentium III Models, Duplexing Drive Cage (264368-xx1) or the Wide Ultra SCSI-3 Drive cage (271912-xx1) are required.)

Wide-Ultra SCSI-3 Hot Plug Drive Cage (5 x 1") Option 271912-291 Kit (Japan) ((When using hot plug Wide Ultra SCSI-3 Drives in the Pentium III Models, Duplexing Drive Cage (264368-xx1) or the Wide Ultra SCSI-3 Drive cage (271912-xx1) are required.)

Hard Drives

(Caution - Check to make sure that you are using the right drive with the correct drive cage.)

Wide Ultra3 SCSI - Universal Hot Plug

36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1") 176496-B22

18.2-GB Wide Ultra3 SCSI 10,000 rpm Drive (1") 142673-B22

9.1-GB Wide Ultra3 SCSI 10,000 rpm Drive (1") 142671-B22

18.2-GB Wide Ultra3 SCSI 15,000 rpm Drive (1") 188122-B22

9.1-GB Wide Ultra3 SCSI 15,000 rpm Drive (1") 188120-B22

Note: Wide Ultra2/Ultra3 Drives require an optional Wide Ultra2/Ultra3 Controller to support Ultra2/Ultra3 transfer rates.

Wide Ultra3 SCSI - Non- Hot Plug

36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1") 179497-B21

36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1.6") 142676-B21

18.2-GB Wide Ultra3 SCSI 10,000 rpm Drive (1") 142674-B21

9.1-GB Wide Ultra2 SCSI 10,000 rpm Drive (1") 142672-B21

Note: Non-hot plug Wide Ultra3 drives are supported only in the removable media bays and required the Ultra3 Cable Option Kit (166391-B21). An optional Ultra3 controller must be purchased in order for the Ultra3 drives to operate at Ultra3 speeds.

Wide Ultra2 SCSI - Universal Hot Plug

18.2-GB Wide Ultra2 SCSI 10,000 rpm Drive (1") 128418-B22

18.2-GB Wide Ultra2 SCSI Drive (1") 388144-B22

9.1-GB Wide Ultra2 SCSI 10,000 rpm Drive (1") 328939-B22

9.1-GB Wide Ultra2 SCSI Drive (1") 123065-B22

Note: Wide Ultra2/Ultra3 Drives require an optional Wide Ultra2/Ultra3 Controller to support Ultra2/Ultra3 transfer rates.

Wide Ultra2 SCSI - Non-Hot Plug

18.2-GB Wide Ultra2 SCSI Drive (1") 388143-B21

9.1-GB Wide Ultra2 SCSI Drive (1") 349526-B21

Wide Ultra SCSI-3 Drives - Hot Plug

36.4-GB Wide-Ultra SCSI-3 10,000 rpm Drive (1") 176498-B21

36.4-GB Wide-Ultra SCSI-3 10,000 rpm Drive (1.6") 128420-B21

36.4-GB Wide-Ultra SCSI-3 Drive (1.6") 400740-B21

18.2-GB Wide-Ultra SCSI-3 10,000 rpm Drive (1") 128417-B21

18.2-GB Wide-Ultra SCSI-3 Drive (1") 400739-B21

9.1-GB Wide-Ultra SCSI-3 10,000 rpm Drive (1") 336357-B21

9.1-GB Wide-Ultra SCSI-3 Hard Drive (1") 313706-B21

Note: When using hot plug Wide Ultra SCSI-3 Drives in the Pentium III Models, Duplexing Drive Cage (264368-001) or the Wide Ultra SCSI-3 Drive cage (271912-001) are required.

Note: When using the Compaq Hot Plug Redundant Power Supply (283697-001/291) in conjunction with 10K-II rpm Drives (9 GB and 18 GB) please observe the following rules: 9-GB and 18-GB 10K rpm Hot

Plug Hard Drives. In a rack configuration at altitudes above 5000 feet (1,520 meters) the server must be operated in ambient temperatures not exceeding 86° F (30° C).

Storage Controllers

| | |
|--|------------|
| Smart Array 431 Controller | 127695-B21 |
| Smart Array 431 Controller (Japan) | 127695-291 |
| Smart Array 3200 Controller | 295643-B21 |
| Smart Array 3200 Controller (Japan) | 295643-291 |
| Smart Array 4200 Controller | 295636-B21 |
| Smart Array 4200 Controller (Japan) | 295636-291 |
| 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter (The 64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter (129803-xx1) will default to Wide Ultra2, Wide-Ultra SCSI-3, Fast-Wide SCSI-2 or Fast SCSI-2 when not used with the Wide Ultra3 hard drives.) | 129803-B21 |
| 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter (Japan) (The 64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter (129803-xx1) will default to Wide Ultra2, Wide-Ultra SCSI-3, Fast-Wide SCSI-2 or Fast SCSI-2 when not used with the Wide Ultra3 hard drives.) | 129803-291 |
| 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter (The 64-Bit/66MHz Single Channel Wide Ultra3 SCSI Adapter (154457-xx1) will default to Wide Ultra2, Wide-Ultra SCSI-3, Fast-Wide SCSI-2 or Fast SCSI-2 when not used with the Wide Ultra3 hard drives.) | 154457-B21 |
| 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter (Japan) (The 64-Bit/66MHz Single Channel Wide Ultra3 SCSI Adapter (154457-xx1) will default to Wide Ultra2, Wide-Ultra SCSI-3, Fast-Wide SCSI-2 or Fast SCSI-2 when not used with the Wide Ultra3 hard drives.) | 154457-291 |

Communications

| | |
|---|------------|
| Compaq 10/100 TX PCI UTP Controller (The ProLiant 1600 Pentium III Models ship standard with one Compaq 10/100 TX PCI UTP Controller embedded. For redundancy, a second controller is required (P/N 169845-001).) | 169845-001 |
| Compaq NC3122 Fast Ethernet NIC PCI Dual 10/100 | 317450-B21 |
| Compaq NC3131 Fast Ethernet NIC 64 PCI Dual Base 10/100 | 338456-B21 |
| Compaq NC3132 Fast Ethernet Module Dual 10/100 Upgrade Module for NC3131 | 338456-B22 |
| Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3131 | 338456-B23 |
| Compaq NC6133 Gigabit Module 1000 LX Upgrade Module for NC3131 | 338456-B24 |
| Compaq NC3133 Fast Ethernet Module 100 FX Upgrade Module for NC3131 | 338456-B25 |
| Compaq NC6134 Gigabit NIC 64 PCI 1000 SX | 174818-B21 |
| Compaq NC4621 Token Ring NIC PCI 4/16 WOL | 379956-B21 |
| IBM 16/4 Token Ring PCI Special | 133749-B21 |
| Compaq 56K ISA Fax Modem v.90 | 294900-002 |

| | |
|-----------------------|------------|
| ServerNet PCI Adapter | 309833-B22 |
| 4M Cable | 309834-B23 |
| 30M Cable | 309834-B22 |

Internal Tape Drives

Note: In order to install certain tape drives internally, you may need to remove the rails that come standard on the drives and then re-insert the screws in the mounting holes.

| | |
|--|------------|
| Internal 20/40-GB DAT DDS-4 Tape Drive | 157769-B21 |
| Internal 12/24-GB DAT Drive (Opal) | 295513-B22 |
| Internal 12/24-GB DAT Drive (Opal) (Japan) | 295513-292 |
| Internal 4/8-GB DAT Drive (Opal) | 295353-B22 |
| Internal 4/8-GB DAT Drive (Opal) (Japan) | 295353-292 |
| Internal 4/8-GB SLR Drive (Opal) | 295480-B22 |
| Internal 4/8-GB SLR Drive (Opal) (Japan) | 295480-292 |
| Internal 40/80-GB DLT Drive | 146196-B21 |
| Internal 35/70-GB DLT Drive | 242520-B21 |
| Internal 35/70-GB DLT Drive (Japan) | 242520-291 |
| Internal 20/40-GB DLT Drive (Opal) | 340743-B22 |
| Internal 20/40-GB DLT Drive (Opal) (Japan) | 340743-292 |
| Internal AIT 50-GB Tape Drive | 157766-B21 |
| Internal AIT 35-GB Tape Drive | 388504-B21 |
| 4-GB DDS-2 DAT Cassette | 137611-001 |
| DDS-4 Media (10 pack) | 152842-001 |
| 12-GB DDS-3 DAT Cassette (10 pack) | 295515-B21 |
| DAT Cleaning Cassette | 242781-001 |
| AIT 50-GB Data Cassette (5 pack) | 152841-001 |
| AIT 35-GB Data Cassette (5 pack) | 402371-B21 |
| AIT Cleaning Cassette | 402374-B21 |
| DLT IV Data Cartridges (7 pack) | 295192-B21 |
| DLT Cleaning Cartridge | 199704-001 |

Note: Please see the Compaq 20/40-GB DAT Drive, Compaq 12/24-GB DAT Drive, Compaq 4/8-GB DAT Drive, Compaq 4/8-GB SLR Drive, Compaq 40/80-GB DLT Drive, Compaq 35/70-GB DLT Drive, Compaq 20/40-GB DLT Drive, Compaq AIT 50-GB Tape Drive, or the Compaq AIT 35-GB Tape Drive for an up-to-date listing of the latest O/S Support details, please see the following:

http://www.compaq.com/products/quickspecs/North_America/10233_na.html (North America)

http://www.compaq.com/products/quickspecs/Division/10233_div.htm (Division/World Wide)

Redundant Options

| | |
|--|------------|
| Compaq 10/100 TX PCI UTP Controller (The ProLiant 1600 Pentium III Models ship standard with one Compaq 10/100 TX PCI UTP Controller embedded. For redundancy, a second controller is required (169845-001).) | 169845-001 |
| Compaq Hot Plug Redundant Power Supply Option Kit (When using the Compaq Hot Plug Redundant Power Supply (283697-xx1) in conjunction with 10K-II rpm Drives (9 GB and 18 GB) please observe the following rules: 9-GB and 18-GB 10K rpm Hot Plug Hard Drives. In a rack configuration at altitudes above 5000 feet (1.520 meters) the server must be operated in ambient temperatures not exceeding 86° F (30° C)) | 283697-001 |
| Compaq Hot Plug Redundant Power Supply | 283697-B21 |

Option Kit (Int'l) (When using the Compaq Hot Plug Redundant Power Supply (283697-xx1) in conjunction with 10K-II rpm Drives (9 GB and 18 GB) please observe the following rules: 9-GB and 18-GB 10K rpm Hot Plug Hard Drives. In a rack configuration at altitudes above 5000 feet (1.520 meters) the server must be operated in ambient temperatures not exceeding 86° F (30° C))

Compaq Hot Plug Redundant Power Supply 283697-291

Option Kit (Japan) (When using the Compaq Hot Plug Redundant Power Supply (283697-xx1) in conjunction with 10K-II rpm Drives (9 GB and 18 GB) please observe the following rules: 9-GB and 18-GB 10K rpm Hot Plug Hard Drives. In a rack configuration at altitudes above 5000 feet (1.520 meters) the server must be operated in ambient temperatures not exceeding 86° F (30° C))

Compaq Hot Plug Redundant Power Supply (48 volt DC) 333590-B21

Management Options

Integrated Management Display (Beach Gray) 264377-B23

Compaq Remote Insight Lights-Out Edition 157866-001

Compaq Remote Insight Lights-Out Edition (EURO) 157866-021

Compaq Remote Insight Lights-Out Edition (APD, Japan) 157866-371

Compaq Remote Insight (PCI) LAN + NA Modem 294013-002

Compaq Remote Insight (PCI) LAN + NA Modem (PAN EURO) 294013-B32

Compaq Remote Insight Board (PCI) LAN/Serial without modem 294013-B24

Compaq Remote Insight Board (PCI) LAN/Serial without modem (Japan) 294013-294

Compaq Remote Insight Board (PCI) LAN only 294013-B25

Compaq Remote Insight Board (PCI) LAN only (Japan) 294013-295

Monitors

TFT8020 18" Flat Panel Monitor (Opal) 326100-001

TFT8020 18" Flat Panel Monitor (Carbon) 159244-001

TFT8020 18" Flat Panel Monitor (Opal, bulk pack 2 monitor heads per box) 173610-001

TFT5010 15" Flat Panel Monitor (Opal) 104741-001

TFT5010 15" Flat Panel Monitor (Carbon) 154486-001

TFT5000R Flat Panel Monitor 120207-001

TFT5000R Flat Panel Monitor (Int'l) 120207-B31

TFT5000R Flat Panel Monitor (Japan) 120207-291

P1610 Color Monitor 305708-001

P1100 Color Monitor 325606-001

P900 Color Monitor 386326-001

P700 Color Monitor 380207-001

V1100 Color Monitor 386472-001

V710 Color Monitor 187895-001

V700 Color Monitor (carbon) 325800-002

V500 Color Monitor 325900-001

S510 Color Monitor 168636-001

S710 Color Monitor 152991-001

S910 Color Monitor 138485-001
Note: Monitors larger than 17" may be too heavy for use in rack systems.

External Tape Drives

| | |
|---|------------|
| External 20/40-GB DAT DDS-4 Tape Drive | 157770-001 |
| External 20/40-GB DAT DDS-4 Tape Drive (Int'l) | 157770-B31 |
| External 20/40-GB DAT DDS-4 Tape Drive (Japan) | 157770-291 |
| External 40/80-GB DLT Drive | 146197-B21 |
| External 40/80-GB DLT Drive (Japan) | 146197-291 |
| External 35/70-GB DLT Drive | 242521-B21 |
| External 35/70-GB DLT Drive (Japan) | 242521-291 |
| External 20/40-GB DLT Drive (Opal) | 340744-B22 |
| External 20/40-GB DLT Drive (Opal) (Japan) | 340744-292 |
| External AIT 50-GB Tape Drive | 157767-001 |
| External AIT 50-GB Tape Drive (Int'l) | 157767-B31 |
| External AIT 50-GB Tape Drive (Japan) | 157767-291 |
| External AIT 35-GB Tape Drive | 388507-001 |
| External AIT 35-GB Tape Drive (Int'l) | 388507-B31 |
| External AIT 35-GB Tape Drive (Japan) | 388507-291 |
| 20/40-GB DAT 8 Cassette Autoloader - External | 166505-001 |
| 20/40-GB DAT 8 Cassette Autoloader - External (Int'l) | 166505-B31 |
| 20/40-GB DAT 8 Cassette Autoloader - External (Japan) | 166505-291 |
| 4-GB DDS-2 DAT Cassette | 137611-001 |
| DDS-4 Media (10 pack) | 152842-001 |
| 20/40-GB DAT 8 Cassette Magazine w/Media | 171532-B21 |
| 12-GB DDS-3 DAT Cassette (10 pack) | 295515-B21 |
| DAT Cleaning Cassette | 242781-001 |
| AIT 50-GB Data Cassette (5 pack) | 152841-001 |
| AIT 35-GB Data Cassette (5 pack) | 402371-B21 |
| AIT Cleaning Cassette | 402374-B21 |
| DLT IV Data Cartridges (7 pack) | 295192-B21 |
| DLT Cleaning Cartridge | 199704-001 |

Note: Please see the Compaq 20/40-GB DAT Drive, Compaq 40/80-GB DLT Drive, Compaq 35/70-GB DLT Drive, Compaq 20/40-GB DLT Drive, Compaq AIT 50-GB Tape Drive, Compaq AIT 35-GB Tape Drive, or the Compaq 20/40-GB DAT DDS-4 8 Cassette Autoloader for an up-to-date listing of the latest O/S Support details, please see the following:

http://www.compaq.com/products/quickspecs/North_America/10233_na.html (North America)

http://www.compaq.com/products/quickspecs/Division/10233_div.htm (Division/World Wide)

External Storage - Tower

| | |
|---|------------|
| Compaq StorageWorks Enclosure Model 4214T (tower) | 124875-001 |
| Compaq StorageWorks Enclosure Model 4214T (tower) (Int'l) | 124875-B31 |
| Compaq StorageWorks Enclosure Model 4214T (tower) (Japan) | 124875-291 |
| Compaq StorageWorks Enclosure Model 4314T (tower) | 190210-001 |
| Compaq StorageWorks Enclosure Model 4314T (tower) (Int'l) | 190210-B31 |

Compaq StorageWorks Enclosure Model 4314T 190210-291
(tower) (Japan)

Note: The Compaq StorageWorks Enclosure 4200 Family support the Wide Ultra2/Ultra3 1" Hot Plug Hard Drives.

| | |
|--|------------|
| SCSI Storage Expander II | 332609-001 |
| SCSI Storage Expander II (Int'l) | 332609-B21 |
| SCSI Storage Expander II (Japan) | 332609-291 |
| ProLiant Tower Storage System Model UE | 348710-002 |
| ProLiant Storage System Tower Model UE (Int'l) | 348710-B31 |
| ProLiant Storage System Tower Model UE (Japan) | 348710-291 |
| ProLiant Tower Storage System Model U2 | 304110-B22 |
| ProLiant Storage System Tower Model U2 (Int'l) | 304114-B32 |
| ProLiant Storage System Tower Model U2 (Japan) | 304114-292 |

Note: The Compaq ProLiant Storage System Models UE and U2 support the Wide-Ultra SCSI-3 Drives.

| | |
|--|------------|
| ProLiant Storage System Model F1 or U1 to Model UE Upgrade Kit | 348718-B21 |
| ProLiant Storage System Model F1 or U1 to Model UE Upgrade Kit (Japan) | 348718-291 |
| ProLiant Storage System Model F2 or U2 to Model UE Upgrade Kit | 348706-B21 |
| ProLiant Storage System Model F2 or U2 to Model UE Upgrade Kit (Japan) | 348706-291 |
| Conversion Kit, SB to DB/U | 304116-B21 |
| Conversion Kit, DB to SB/U | 304115-B21 |
| ProLiant Storage System/U Redundant Power Supply Option | 224206-001 |
| ProLiant Storage System/U Redundant Power Supply Option (Int'l) | 224214-001 |
| StorageWorks Enclosure 4200 Redundant Power Supply Option | 119826-B21 |
| StorageWorks Enclosure 4200 Dual Bus I/O Module Option | 119829-B21 |
| StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option | 190212-B21 |
| StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option | 190213-B21 |
| StorageWorks Enclosure Tower to Rack Conversion Kit | 150213-B21 |

External Storage - Rack

| | |
|--|------------|
| Compaq StorageWorks Enclosure Model 4214R (rack-mountable) | 103381-001 |
| Compaq StorageWorks Enclosure Model 4214R (rack-mountable) (Int'l) | 103381-B31 |
| Compaq StorageWorks Enclosure Model 4214R (rack-mountable) (Japan) | 103381-291 |
| Compaq StorageWorks Enclosure Model 4254R (rack-mountable) | 138151-001 |
| Compaq StorageWorks Enclosure Model 4254R (rack-mountable) (Int'l) | 138151-B31 |
| Compaq StorageWorks Enclosure Model 4254R (rack-mountable) (Japan) | 138151-291 |
| Compaq StorageWorks Enclosure Model 4314R | 190209-001 |

| | |
|---|------------|
| (rack-mountable) | |
| Compaq StorageWorks Enclosure Model 4314R | 190209-B31 |
| (rack-mountable) (Int'l) | |
| Compaq StorageWorks Enclosure Model 4314R | 190209-291 |
| (rack-mountable) (Japan) | |
| Compaq StorageWorks Enclosure Model 4354R | 190211-001 |
| (rack-mountable) | |
| Compaq StorageWorks Enclosure Model 4354R | 190211-B31 |
| (rack-mountable) (Int'l) | |
| Compaq StorageWorks Enclosure Model 4354R | 190211-291 |
| (rack-mountable) (Japan) | |
| Note: The Compaq StorageWorks Enclosure 4200/4300 Family support the Wide Ultra2/Ultra3 1" Hot Plug Hard Drives. | |
| Rack-Mountable SCSI Storage Expander II | 332607-001 |
| Rack-Mountable SCSI Storage Expander II (Int'l) | 332607-B21 |
| Rack-Mountable SCSI Storage Expander II | 332607-291 |
| (Japan) | |
| Rack-Mountable ProLiant Storage System Model UE | 348700-001 |
| Rack-Mountable ProLiant Storage System Model UE (Int'l) | 348700-B31 |
| Rack-Mountable ProLiant Storage System Model UE (Japan) | 348700-291 |
| Rack-Mountable ProLiant Storage System Model U2 | 304100-B22 |
| Rack-Mountable ProLiant Storage System Model U2 (Int'l) | 304104-B32 |
| Rack-Mountable ProLiant Storage System Model U2 (Japan) | 304104-292 |
| Note: The Compaq ProLiant Storage System Family supports the Wide-Ultra SCSI-3 Hot Plug Hard Drives. | |
| ProLiant Storage System Model F1 or U1 to Model UE Upgrade Kit | 348718-B21 |
| ProLiant Storage System Model F1 or U1 to Model UE Upgrade Kit (Japan) | 348718-291 |
| ProLiant Storage System Model F2 or U2 to Model UE Upgrade Kit | 348706-B21 |
| ProLiant Storage System Model F2 or U2 to Model UE Upgrade Kit (Japan) | 348706-291 |
| ProLiant Storage System/U Redundant Power Supply Option | 224206-B21 |
| ProLiant Storage System/U Redundant Power Supply Option (Int'l) | 224214-001 |
| StorageWorks Enclosure 4200 Redundant Power Supply Option | 119826-B21 |
| StorageWorks Enclosure 4200 Dual Bus I/O Module Option | 119829-B21 |
| StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option | 190212-B21 |
| StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option | 190213-B21 |
| StorageWorks Enclosure Tower to Rack Conversion Kit | 150213-B21 |
| Server Recovery | |
| Recovery Server Option for ProLiant Storage | 304117-B21 |

System Model U1 & F1

| | |
|--|------------|
| ProLiant Storage System RSO/U Tower | 387490-002 |
| ProLiant Storage System RSO/U Tower (Int'l) | 387490-B32 |
| ProLiant Storage System RSO/U Tower (Japan) | 387490-292 |
| Rack-Mountable ProLiant Storage System RSO/U | 387256-001 |
| Rack-Mountable ProLiant Storage System RSO/U (Int'l) | 387256-B31 |
| Rack-Mountable ProLiant Storage System RSO/U (Japan) | 387256-291 |

Note: The Compaq ProLiant Storage System RSO/U Models support the Wide-Ultra SCSI-3 Drives.

StorageWorks DLT Department Library

| | |
|--|------------|
| TL891 DLT library unit, 1 drive Table Top, FWD | 120875-B21 |
| TL891 DLT library unit, 2 drive Table Top, FWD | 120875-B22 |
| TL891 DLT library unit, 1 drive Rack, FWD | 120876-B21 |
| TL891 DLT library unit, 2 drive Rack, FWD | 120876-B22 |
| TL881 DLT library unit, 1 drive Table Top, FWD | 128667-B21 |
| TL881 DLT library unit, 2 drive Table Top, FWD | 128667-B22 |
| TL881 DLT library unit, 1 drive Table Top, FWSE | 128668-B21 |
| TL881 DLT library unit, 2 drive Table Top, FWSE | 128668-B22 |
| TL881 DLT Library, 1 drive Rack, FWD | 128669-B21 |
| TL881 DLT Library, 2 drive Rack, FWD | 128669-B22 |
| Add-On 20/40-GB Drive for TL881 | 128671-B21 |
| Add-On 20/40-GB Drive for TL881 (Japan) | 128671-291 |
| Add-On 35/70-GB Drive for TL891 | 120878-B21 |
| Add-On 35/70-GB Drive for TL891 (Japan) | 120878-291 |
| MiniLibrary Data Unit | 128670-B21 |
| MiniLibrary Expansion Unit | 120877-B21 |
| DLT IV Data Cartridges (single pack) | 295194-B21 |
| DLT IV Data Cartridges (7 pack) | 295192-B21 |
| DLT Cleaning Cartridge | 199704-001 |
| MiniLibrary pass-through Mechanism Kit | 120880-B21 |
| 10 Slot Magazine | 120881-B21 |
| MiniLibrary Table Top to Rack Mount Conversion Kit, Metric/RETMA racks | 120882-B21 |
| MiniLibrary Table Top to Rack Mount Conversion Kit, Compaq racks | 120883-B21 |

Note: Please see the TL881 or TL891 Automated DLT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, ProLiant Connectivity Kits, Host Bus Adapters, SCSI Cable Kits, and Localization Kits and additional options needed for a complete solution at http://www1.compaq.com/products/detail/0,1522,wp~16365_2,00.html <http://www1.compaq.com/products/detail/0,1522,wp%7E16365_2,00.html>.

Automated AIT Tape Library Solution

| | |
|---|------------|
| SSL2020 AIT Mini-Library 1 drive, 20 slot Table Top | 175195-B21 |
| SSL2020 AIT Mini-Library 2 drive, 20 slot Table Top | 175195-B22 |
| SSL2020 AIT Mini-Library 1 drive, 20 slot Rackmount | 175196-B21 |
| SSL2020 AIT Mini-Library 2 drive, 20 slot Rackmount | 175196-B22 |
| SSL2020 AIT Library Pass Thru with Transport | 175312-B21 |
| SSL2020 AIT Library Pass Thru Extender | 175312-B22 |

| | |
|--|------------|
| AIT 50GB Drive Add-On LVD Drive for SSL2020 AIT Library | 175197-B21 |
| 19 Slot Magazine for SSL2020 AIT Library | 175198-B21 |
| AIT 50-GB Data Cassette (5 pack) | 152841-001 |
| AIT Cleaning Cassette | 402374-B21 |
| Tabletop to Rackmount Upgrade Kit for SSL2020 AIT Library, Compaq Rack | 175199-B21 |
| Tabletop to Rackmount Upgrade Kit for SSL2020 AIT Library, RETMA racks | 175199-B22 |

Note: Please see the AIT Automated DLT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at

http://www1.compaq.com/products/detail/0,1522,wp~16365_2,00.html
<http://www1.compaq.com/products/detail/0,1522,wp%7E16365_2,00.html>.

Tape Array Solution

| | |
|---|------------|
| TA1000 AIT Tape Array, Rackmount (US) | 175005-001 |
| TA1000 AIT Tape Array, Rackmount (Int'l) | 175005-B31 |
| TA1000 AIT Tape Array, Rackmount (Japan) | 175005-291 |
| AIT 50-GB Data Cassette (5 pack) | 152841-001 |
| AIT Cleaning Cassette | 402374-B21 |
| DLT Tape Array Model 0 | 199860-001 |
| DLT Tape Array II Model 35/70-4 no software | 295165-001 |
| DLT Tape Array II Model 35/70-4 no software (Int'l) | 295165-B31 |
| DLT IV Data Cartridges (single pack) | 295194-B21 |
| DLT IV Data Cartridges (7 pack) | 295192-B21 |
| DLT Cleaning Cartridge | 199704-001 |
| DLT Library Tabletop Conversion Kit | 350384-B21 |
| Tape Array Cable Kit (Available for the DLT Tape Array and DLT Tape Array II only.) | 242427-001 |

Note: Please see the Compaq TA1000 AIT Tape Array or the Compaq DLT Tape Array II QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at

http://www1.compaq.com/products/detail/0,1522,wp~16365_2,00.html
<http://www1.compaq.com/products/detail/0,1522,wp%7E16365_2,00.html>.

RAID Array 4000

| | |
|--|------------|
| StorageWorks Raid Array 4000 (tower) | 241300-001 |
| StorageWorks Raid Array 4100 (rack) | 146013-001 |
| StorageWorks Raid Array 4100 (rack) (Int'l) | 146013-B31 |
| StorageWorks Raid Array 4100 (rack) (Japan) | 146013-291 |
| Fibre Channel Storage Hub 12 | 295573-001 |
| Fibre Channel Storage Hub 12 (Int'l) | 295573-B31 |
| Fibre Channel Storage Hub 12 (Japan) | 295573-291 |
| Fibre Channel Storage Hub 7 | 234453-001 |
| Fibre Channel Storage Hub 7 (Int'l) | 234453-B31 |
| Fibre Channel Storage Hub 7 (Japan) | 234453-291 |
| Compaq Storage Hub 7 Universal Rack Mount Kit | 136127-B21 |
| Fibre Channel Storage Hub - 12 Port with 41U/42U Bracket | 295573-B22 |
| Compaq Storage Hub 12 Management Option | 159262-B21 |
| Fibre Channel Host Adapter Kit/P | 223180-B21 |
| Fibre Channel Host Adapter Kit/P (Japan) | 223180-291 |

| | |
|--|------------|
| StorageWorks Raid Array 4000 Redundant Array Controller | 223187-B21 |
| StorageWorks Fibre Channel Arbitrated Loop Switch 8 | 177862-B21 |
| StorageWorks Fibre Channel Arbitrated Loop Switch 8 (Japan) | 177862-291 |
| StorageWorks Fibre Channel Arbitrated Loop 3-Port Expansion Module | 177863-B21 |
| 64-Bit/66MHz Fibre Channel Host Adapter | 120186-B21 |
| 64-Bit/66MHz Fibre Channel Host Adapter (Japan) | 120186-291 |
| GBIC-SW Connector Kit (two each) | 234459-B21 |
| GBIC-LW Connector Kit (two each) | 340412-B21 |
| Fibre Channel Connection Kit, 3 SW GBICS, 2 Cables | 380579-B21 |
| Fibre Channel Connection Kit, 2 SW GBICS, 2 Cables | 380596-B21 |
| Fibre Channel Short Wave GBIC | 380561-B21 |
| Fibre Channel Long Wave GBIC | 127508-B21 |
| 2m Multi-Mode Fibre Channel Cable | 234457-B21 |
| 5m Multi-Mode Fibre Channel Cable | 234457-B22 |
| 15m Multi-Mode Fibre Channel Cable | 234457-B23 |
| 30m Multi-Mode Fibre Channel Cable | 234457-B24 |
| 50m Multi-Mode Fibre Channel Cable | 234457-B25 |
| Raid Array 4000 Redundant Power Supply | 224206-001 |
| Raid Array 4000 Tower to Rack Conversion Kit | 297162-B21 |
| Raid Array 4100 Rack to Tower Conversion Kit | 154253-B21 |
| Upgrade Kit for ProLiant Storage System F and F1 | 296324-B21 |
| Fibre Channel Troubleshooting Kit | 234468-B21 |

RAID Array 8000

Departmental Pedestal Models

| | |
|------------------------------------|------------|
| RA8000 FC Single Controller (Opal) | 400553-B22 |
| RA8000 FC Dual Controller (Opal) | 400552-B22 |
| Expansion Cabinet 24 slot (Opal) | 380570-B22 |

Rack Mountable Models

| | |
|-----------------------------|------------|
| RA8000 FC Single Controller | 400554-B21 |
| RA8000 FC Dual Controller | 400700-B21 |
| Expansion Cabinet 24 slot | 380568-B21 |

Note: Please see the [Compaq StorageWorks RAID Array 8000, ESA 12000 QuickSpecs](#) for FC Hubs, FCswitches, platform software, host adapter, disks and options for complete solutions.

Enterprise Storage Array 12000

| | |
|---|------------|
| High-Capacity/General Business - Dual Controllers 48 slots, 60 Hz (Opal) | 400557-002 |
| High-Capacity/General Business - Dual Controllers 48 slots, 50 Hz (Opal) | 400558-B22 |
| High Bandwidth Quad controllers 48 slots, 60 Hz (Opal) | 400555-002 |
| High Bandwidth Quad controllers 48 slots, 50 Hz (Opal) | 400556-B22 |
| Single Expansion Dual controllers 24 slots, 25U extra cabinet space, 60 Hz (Opal) | 400559-002 |
| Single Expansion Dual controllers 24 slots, 25U extra cabinet space, 50 Hz (Opal) | 400560-B22 |
| Expansion enclosure 48 slots, 60 Hz (Opal) | 380640-002 |
| Expansion enclosure 48 slots, 50 Hz (Opal) | 380650-B22 |

Note: Please see the [Compaq StorageWorks RAID Array 8000, ESA](#)

12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapter, disks and options for complete solutions.

StorageWorks Modular Array 6000

| | |
|------------|------------|
| MA6000 D14 | 187738-B21 |
| MA6000 S14 | 187739-B21 |

Note: Please see the Compaq StorageWorks MA6000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions.

StorageWorks Modular Array 8000/Enterprise Modular Array 12000

| | |
|--------------------|------------|
| EMA12000 D14 60Hz | 175990-B21 |
| EMA12000 D14 50Hz | 175990-B22 |
| EMA12000 S14 60Hz | 175991-B21 |
| EMA12000 S14 50Hz | 175991-B22 |
| MA8000 60Hz | 175992-B21 |
| MA8000 50Hz | 175992-B22 |
| EMA12000 Blue 60Hz | 175993-B21 |
| EMA12000 Blue 50Hz | 175993-B22 |

Note: Options include controller, solution kits, ACS.

MA8000/EMA12000 includes controller shelf, drive shelves and cabinet. Packaging upgrade to RA8000/ESA12000.

Note: Please see the Compaq StorageWorks MA8000/EMA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions.

StorageWorks Options

| | |
|--|------------|
| Fibre Channel Tape Controller - II | 152975-001 |
| Fibre Channel Tape Controller - II (Int'l) | 152975-B31 |
| Fibre Channel Tape Controller - II (Japan) | 152975-291 |
| Fibre Channel Storage Switch 16 | 380578-B21 |
| Fibre Channel Storage Switch 8 | 380591-B21 |
| Fibre Channel SAN Switch/8 with Fabric Operating Software | 158222-B21 |
| Fibre Channel SAN Switch/16 with Fabric Operating Software | 158223-B21 |
| F200 Clustering Kit | 380357-B21 |

Uninterruptible Power Systems

| | |
|---|------------|
| UPS Model T1000 (100-127 volt) | 242688-001 |
| UPS Model T1000h (200-240 volt) (Int'l) | 242688-002 |
| UPS Model T1500 (100-127 volt) | 242688-003 |
| UPS Model T1500h (200-240 Volt) (Int'l) | 242688-004 |
| UPS Model T1500j (100-127 Volt) (Japan) | 242688-293 |
| UPS Model T2000 (100-127 volt) | 242688-005 |
| UPS Model T2000j (100-127 volt) (Japan) | 242688-295 |
| UPS Model T2400h-NA (200-240 volt) | 242688-006 |
| UPS Model T2400h (200-240 volt) (Int'l) | 242688-007 |
| Multi-Server UPS Card | 123508-B21 |
| Scalable UPS Card | 123509-B21 |
| SNMP-EN Adapter | 347225-B21 |
| High to Low Voltage Transformer (250VA) | 388643-B21 |

Uninterruptible Power Systems - Rack

| | |
|---|------------|
| Rack-Mountable UPS R1500 (100-127 VAC) (NA) | 242704-001 |
| Rack-Mountable UPS R1500h (200-230 VAC) (Int'l) | 242704-002 |
| Rack-Mountable UPS R1500j (100-127 VAC) (Japan) | 242704-291 |
| Rack-Mountable UPS R3000 (100-127 VAC) (NA) | 242705-001 |

| | |
|--|------------|
| Rack-Mountable UPS R3000h (208-240 VAC) (Int'l) | 242705-002 |
| Rack-Mountable UPS R3000h-NA (208-240 VAC) NDC (non-detached cord) | 242705-003 |
| Rack-Mountable UPS R3000j (100-127 VAC) (Japan) | 242705-291 |
| Rack-Mountable UPS R6000 (208 VAC default) (NA) | 347207-001 |
| Rack-Mountable UPS R6000 (230 VAC default) (Int'l) | 347207-B31 |
| Rack-Mountable UPS R6000 (200 VAC default) (Japan) | 347207-291 |
| R6000 Extended Runtime Module | 347224-B21 |
| SNMP-EN Adapter | 347225-B21 |
| High to Low Voltage Transformer (250VA) | 388643-B21 |
| Multi-Server UPS Card | 123508-B21 |
| Scalable UPS Card | 123509-B21 |

Please see the Compaq Rack Builder for configuration assistance at

www.compaq.com/products/storageworks/rack_accessories/rack_builderpro2.html

http://www.compaq.com/products/storageworks/rack_accessories/rack_builderpro2.html.

Rack Conversion Kit

| | |
|-------------------------------------|------------|
| Compaq Tower-to-Rack Conversion Kit | 387798-B21 |
|-------------------------------------|------------|

Compaq Rack 9000 Series (Opal)

| | |
|---------------------------------------|------------|
| Compaq Rack 9142 (42U) - Pallet | 120663-B21 |
| Compaq Rack 9142 (42U) - Shock Pallet | 120663-B22 |
| Compaq Rack 9142 (42U) - Crated | 120663-B23 |
| Compaq Rack 9136 (36U) - Pallet | 120664-B21 |
| Compaq Rack 9136 (36U) - Shock Pallet | 120664-B22 |
| Compaq Rack 9136 (36U) - Crated | 120664-B23 |
| Compaq Rack 9122 (22U) - Pallet | 120665-B21 |
| Compaq Rack 9122 (22U) - Shock Pallet | 120665-B22 |
| Compaq Rack 9122 (22U) - Crated | 120665-B23 |

Note: -B21 part numbers are for all Geos used to ship configured racks (by custom Channels) -B22 part numbers are for systems, VARs and -B23 part numbers are used for air shipments

Compaq Rack 7000 Series (Beach Gray)

| | |
|---------------------------------------|------------|
| Compaq Rack 7142 (42U) (NA) | 165753-001 |
| Compaq Rack 7142 (42U) (Air Shipment) | 165753-002 |
| Compaq Rack 7142 (42U) (Int'l) | 165753-003 |
| Compaq Rack 7142 (42U) (Japan) | 165753-293 |

Rack Options for Compaq Rack 9000 Series

| | |
|-----------------------------------|------------|
| Baying Kit | 120669-B21 |
| 9142 Side Panel Kit | 120670-B21 |
| 9136 Side Panel Kit | 120671-B21 |
| Ballast Option Kit | 120672-B21 |
| Stabilizer Option Kit | 120673-B21 |
| Rack Rail Adapter Kit (25" depth) | 120675-B21 |
| Fan (110 VAC) Roof Mount | 120677-B21 |
| Fan (220 VAC) Roof Mount | 120678-B21 |
| Bustle Kit | 120679-B21 |
| Grounding Rack Option Kit | 120682-B21 |
| Cable Management D-Rings Kit | 168233-B21 |

Rack Options for Compaq Rack 7000 Series

| | |
|--|------------|
| Rack Sidewall Kit (42U only) | 165652-001 |
| Rack Coupling Kit (42U only) | 165664-001 |
| Stabilizing Feet (42U only) | 189907-001 |
| High Air Flow Rack Door Insert for 7122 | 157847-B21 |
| High Air Flow Rack Door Insert for 7142 | 327281-B21 |
| High Air Flow Rack Door Insert for 7142 (6 pack) | 327281-B22 |
| Compaq Rack Extension Kit for 7142 | 154392-B21 |
| Rack Options for Compaq Rack 7000 and 9000 Series | |
| Sliding Shelf Kit | 332564-B21 |
| Monitor Utility Shelf | 303606-B21 |
| Rack Blanking Panel Kit (Beach Gray) (US) | 169940-001 |
| Rack Blanking Panel Kit (Opal) (US) | 169940-B21 |
| Compaq Networking Cable Management Kit | 292407-B21 |
| Compaq Networking Recessed Rail Management Kit | 292406-B21 |
| High Capacity Cable Management Arm Kit | 124711-B21 |
| Compaq Power Distribution Unit - Low Voltage PDU (NA) | 295363-001 |
| Compaq Power Distribution Unit - Low Voltage PDU (Japan) | 295363-291 |
| Compaq Power Distribution Unit - High Voltage PDU (NA) | 295363-002 |
| Compaq Power Distribution Unit - High Voltage PDUh-NDC (non-detached cord) (Int'l) | 295363-B32 |
| Compaq Power Distribution Unit, 16A (NA, Int'l) | 295363-B21 |
| Compaq Power Distribution Unit, 24A (NA only) | 295363-003 |
| Server Console Switch 1 x 2 port (100-230 VAC) | 120206-001 |
| Server Console Switch 1 x 2 port (100-230 VAC) (Int'l) | 120206-B31 |
| Server Console Switch 1 x 2 port (100-230 VAC) (Japan) | 120206-291 |
| Server Console Switch 1 x 4 port (100-230 VAC) | 400336-001 |
| Server Console Switch 1 x 4 port (100-230 VAC) (Int'l) | 400336-B31 |
| Server Console Switch 1 x 4 port (100-230 VAC) (Japan) | 400336-291 |
| Server Console Switch 1 x 8 port (100-230 VAC) | 400337-001 |
| Server Console Switch 1 x 8 port (100-230 VAC) (Int'l) | 400337-B31 |
| Server Console Switch 1 x 8 port (100-230 VAC) (Japan) | 400337-291 |
| Server Console Switch 2 x 8 port (100-230 VAC) | 400338-001 |
| Server Console Switch 2 x 8 port (100-230 VAC) (Int'l) | 400338-B31 |
| Server Console Switch 2 x 8 port (100-230 VAC) (Japan) | 400338-291 |
| Server Console Switch 2 x 8 port (48VDC) | 400542-B21 |
| CPU to Server Console Cable, 12' | 110936-B21 |
| CPU to Server Console Cable, 20' | 110936-B22 |
| CPU to Server Console Cable, 40' | 110936-B23 |
| CPU to Server Console Cable, 3' | 110936-B24 |
| CPU to Server Console Cable, 6' | 110936-B25 |
| CPU to Server Console Cable (Plenum Rated) 20' | 149363-B21 |
| CPU to Server Console Cable (Plenum Rated) 40' | 149364-B21 |
| Switch Box Connector Kit (115V) | 144007-001 |

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|---|-------------|
| Switch Box Connector Kit (230V) | 144007-002 |
| Switch Box Connector Kit (high voltage) (Int'l) | 144007-B33 |
| Rack Internal Trackball Keyboard (Opal) (UK) | 185152-036 |
| Rack Internal Trackball Keyboard (Opal) (Germany) | 185152-046 |
| Rack Internal Trackball Keyboard (Opal) (France) | 185152-056 |
| Rack Internal Trackball Keyboard (Opal) (Italy) | 185152-066 |
| Rack Internal Trackball Keyboard (Opal) (Spain) | 185152-076 |
| Rack Internal Trackball Keyboard (Opal) (Denmark) | 185152-086 |
| Rack Internal Trackball Keyboard (Opal) (Norway) | 185152-096 |
| Rack Internal Trackball Keyboard (Opal) (Sweden/Finland) | 185152-106 |
| Rack Internal Trackball Keyboard (Opal) (Switzerland) | 185152-116 |
| Rack Internal Trackball Keyboard (Opal) (Portugal) | 185152-136 |
| Rack Internal Trackball Keyboard (Opal) (Belgium) | 185152-186 |
| Rack Internal Trackball Keyboard (Opal) (Japan) | 185152-296 |
| Rack Internal Trackball Keyboard (Opal) (US) | 185152-406 |
| Rack Internal Trackball Keyboard (Opal) (Int'l) | 185152-B36 |
| 1U Rack Keyboard Drawer | 338056-B21 |
| Keyboard/Monitor/Mouse extension cables | 169989-001 |
| Rack Options for Third Party Cabinet Racks | |
| Depth Adjustable Fixed Rails | 332558-B21 |
| Other | |
| Thermal Upgrade Option Kit (550 MHz/600 MHz) (To Upgrade 400 MHz, 450 MHz, or 500 MHz models to the 550 MHz or 600 MHz, or when upgrading a 550 MHz to the 600 MHz model, installation of an additional Thermal Upgrade Option Kit (144003-B22) is required. Failure to install this kit when upgrading may cause damage to the server and will void the warranty.) | 144003-B22 |
| Wide Ultra3 Cable Option Kit (Non-hot plug Wide Ultra3 drives are supported only in the removable media bays and required the Ultra3 Cable Option Kit (166391-B21). An optional Ultra3 controller must be purchased in order for the Ultra3 drives to operate at Ultra3 speeds.) | 166391-B21 |
| Internal Ultra3 Cable Option Kit, NHP | 166389-B21 |
| Internal Ultra3 Cable Option Kit, HP | 166390-B21 |
| Service Upgrades (CarePacs) | |
| Hardware Services 4-Hour On-site Service | |
| 4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (2-5-2 Part Number for US) | FM-LO4HR-36 |
| 4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (2-5-2 Part Number for Canada) | FP-LO4HR-36 |
| 4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (6-3 Part Number for US) | 162658-002 |
| 4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (6-3 Part Number for Canada) | 162658-122 |
| 4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (6-3 Part Number for EMEA) | 324417-002 |

| | |
|---|-------------|
| 4-Hour On-site Service, 24-Hour x 7-Day Coverage, 3 Years (2-5-2 Part Number for US) | FM-LO724-36 |
| 4-Hour On-site Service, 24-Hour x 7-Day Coverage, 3 Years (2-5-2 Part Number for Canada) | FP-LO724-36 |
| 4-Hour On-site Service, 24-Hour x 7-Day Coverage, 3 Years (6-3 Part Number for US) | 162657-002 |
| 4-Hour On-site Service, 24-Hour x 7-Day Coverage, 3 Years (6-3 Part Number for Canada) | 162657-122 |
| 4-Hour On-site Service, 24-Hour x 7-Day Coverage, 3 Years (6-3 Part Number for EMEA) | 376912-022 |
| Installation & Start-up Services | |
| Hardware Installation (2-5-2 Part Number for US) | FM-LOINS-IN |
| Hardware Installation (2-5-2 Part Number for Canada) | FP-LOINS-IN |
| Hardware Installation (6-3 Part Number for US) | 401792-002 |
| Hardware Installation (6-3 Part Number for Canada) | 401792-122 |
| Hardware Installation (6-3 Part Number for EMEA) Quote | |
| O/S & Hardware Installation (2-5-2 Part Number for US) (Hardware installation plus two days O/S start-up activity (install, config, network access & orientation).) | FP-CXHSI-02 |
| O/S & Hardware Installation (6-3 Part Number for US) (Hardware installation plus two days O/S start-up activity (install, config, network access & orientation).) | 160556-002 |
| O/S & Hardware Installation (6-3 Part Number for EMEA) (Hardware installation plus two days O/S start-up activity (install, config, network access & orientation).) | Quote |
| Business Solutions Priority Service Plan - Priority Level | |
| 5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (2-5-2 Part Number for US) | FP-CX102-36 |
| 5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (2-5-2 Part Number for Canada) | FP-CZ102-36 |
| 5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for US) | 155324-002 |
| 5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for Canada) | 155324-122 |
| 5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for EMEA) | 179835-022 |
| Business Solutions Priority Service Plan - Priority 24 Level | |
| 7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (2-5-2 Part Number for US) | FP-CX202-36 |
| 7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (6-3 Part Number for US) | 155328-002 |
| 7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (6-3 Part Number for EMEA) | 179840-022 |
| Business Solutions Priority Service Plan - Priority Plus Level | |

7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (2-5-2 Part Number for US) FP-CX302-36

7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (2-5-2 Part Number for Canada) FP-CZ302-36

7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (6-3 Part Number for US) 155332-002

7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (6-3 Part Number for Canada) 155332-122

Business Solutions Priority Service Plan - Priority Premier Level

7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for US) FP-CX502-36

7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for Canada) FP-CZ502-36

7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for US) 155336-002

7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for Canada) 155336-122

Business Solutions Priority Service Plan - Priority Executive Premier Level

7 x 24 2-hour H/W, 7 x 24 30-minute O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for US) FP-CX702-36

7 x 24 2-hour H/W, 7 x 24 30-minute O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for Canada) FP-CZ702-36

7 x 24 2-hour H/W, 7 x 24 30-minute O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for US) 155340-002

7 x 24 2-hour H/W, 7 x 24 30-minute O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for Canada) 155340-122

Note: For more information, customer/resellers can contact www.Compaq.com/services <<http://www.Compaq.com/services>>.

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- ✦ [Overview](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Standard Features](#)

- [<http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html>](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Options](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Memory](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Storage](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [TechSpecs](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)

Memory

Compaq ProLiant 1600 All Models

Standard Memory

128-MB 100MHz Registered ECC SDRAM memory standard

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

Standard Memory Plus Optional Memory

Up to 896-MB memory is available with the optional installation of 100-MHz Registered ECC SDRAM memory kits.

| Up To | Slot 1 | 2 | 3 | 4 |
|--------|--------|---|---|---|
| 896 MB | - | | | |

Standard Memory Replaced with Optional Memory

Up to 1024-MB of memory is available with the removal of the standard 128 MB of memory and the optional installation of 100-MHz Registered ECC SDRAM memory kits.

| Up To | Slot 1 | 2 | 3 | 4 |
|---------|--------|---|---|---|
| 1024 MB | | | | |

Note: This chart does not represent all possible memory configurations.

Following are memory options available from Compaq:

- 256-MB 100-MHz Registered ECC SDRAM 313616-B21
- 128-MB 100-MHz Registered ECC SDRAM 313615-B21
- 64-MB 100-MHz Registered ECC SDRAM 313614-B21

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- ✦ [Overview](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ✦ [Standard Features](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)

- [10035_div.html>](#)
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<http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html>
- ✧ [Memory](#)
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<http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html>

Storage

0 - 5 - 6 x 1" Hot Pluggable Hard Drive Bays A, B - Two available half height bays C - High Speed IDE CD-ROM Drive D - 3.5 in Diskette Drive

Tower Drive Support

| | Quantity Supported | Position Supported | Controller Supported |
|---|--------------------|--|--|
| Removable Media | | | |
| 1.44-MB Diskette Drive | Up to 1 | D | Integrated |
| IDE CD-ROM Drive | Up to 2 | B,C | Integrated IDE |
| DVD-ROM Drive | Up to 2 | B,C | Integrated IDE |
| Hard Drives | | | |
| Wide Ultra3 Hot Pluggable Drives | | | |
| 1-inch 36.4-GB 10,000 rpm | Up to 6 | 0-5 | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| 18.2-GB 15,000 rpm | | | |
| 9.1-GB 15,000 rpm | | | |
| Wide Ultra3 SCSI - Non-Hot Plug | | | |
| 1-inch 36.4-GB 10,000 rpm | Up to 3 | A,B, C (Using the C position requires the removal of CD-ROM) | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| 18.2-GB 10,000 rpm | | | |
| 9.1-GB 10,000 rpm | | | |
| 1.6-inch 36.4-GB 10,000 rpm | Up to 2 | A, B | |

Wide Ultra2 Hot Pluggable Drives

| | | | | |
|---------------|------------|---------|-----|---|
| 1-inch | 18.2-GB | Up to 6 | 0-5 | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64- Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| | 10,000 rpm | | | |
| | 18.2-GB | | | |
| | 9.1-GB | | | |
| | 10,000 rpm | | | |
| | 9.1-GB | | | |

Wide Ultra2 SCSI - Non-Hot Plug

| | | | | |
|---------------|---------|---------|---|---|
| 1-inch | 18.2-GB | Up to 3 | A, B, C | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64- Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| | 9.1-GB | | (Using the C position requires the removal of CD-ROM) | |

Wide-Ultra SCSI-3 - Hot Plug (Use of Wide-Ultra SCSI-3 Hot Plug drives require the Optional Wide-Ultra SCSI-3 drive cages)

| | | | | |
|---------------|------------|-------------------------------|---------------------------------------|---|
| 1-inch | 36.4-GB | Up to 5 | 0-4 | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64- Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| | 10,000 rpm | 18.2- (with cage option | | |
| | GB | 10,000 rpm | | |
| | 18.2-GB | 9.1-GB | 264368- 001) | |
| | 10,000 rpm | 9.1-GB | Up to 4 (with Duplex option) | |

| | | | |
|-----------------|------------|---|-----|
| 1.6-inch | 36.4-GB | Up to 2 | 0-3 |
| | 10,000 rpm | 36.4-GB (with Duplex cage option 264368- 001) | |

External Storage

| | | | |
|--|----------|----------|--|
| StorageWorks Enclosure 4200/4300 Family (supports Wide Ultra2/Ultra3 drives) | Up to 12 | External | Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64- Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| ProLiant Storage System Models UE | Up to 9 | External | Integrated Dual Channel Wide-Ultra SCSI-3 |

| | | | |
|---|----------|----------|---|
| ProLiant Storage System Models U2 (supports Wide-Ultra SCSI-3 drives) | | | Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 3200 Controller 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter Fibre Channel Host Adapter |
| SCSI Storage Expander II | Up to 3 | External | |
| StorageWorks Raid Array 4000 Kit StorageWorks Raid Array 4100 Kit | Up to 12 | External | |

Maximum Storage Capacity (Hot Plug)

| | |
|----------|--|
| Internal | 218.4 GB (6 x 36.4-GB hot plug hard drives) |
| External | 3.931 TB (9 ProLiant Storage Systems, each with 12 x 36.4-GB 1" hard drives) |
| Total | 4.149 TB |

Maximum Storage Capacity (Hot Plug & Non-Hot Plug)

| | |
|----------|--|
| Internal | 291.2 GB (6 x 36.4-GB hot plug hard drives with 2 x 36.4 GB non-hot plug drives in removable media bays) |
| External | 3.931 TB (9 ProLiant Storage Systems, each with 12 x 36.4-GB 1" hard drives) |
| Total | 4.222 TB |

Maximum Storage Capacity (StorageWorks Enclosure SCSI Attached)

| | |
|----------|---|
| Internal | 218.4 GB (6 x 36.4-GB 1" hot plug hard drives) |
| External | 6.115 TB hot plug SCSI storage (12 x (14 x 36.4 GB 1" Wide Ultra3)) |
| Total | 6.333 TB |

Quantity Supported Position Supported Controller Supported

Tape Drives

Note: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:

http://www.compaq.com/products/quickspecs/North_America/10233_na.html (North America)

http://www.compaq.com/products/quickspecs/Division/10233_div.html (Division/World Wide)

| | | | |
|---|---------|------|--|
| Internal 12/24-GB DAT Internal 4/8-GB DAT Internal 4/8-GB SLR | Up to 2 | A, B | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 |
|---|---------|------|--|

| | | | |
|--|----------------------|---------------------|--|
| 20/40-GB DAT DDS- Up to 2 4 Tape Drive | | A, B | Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64- Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64- Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| Internal 40/80-GB 1 DLT Internal 35/70- GB DLT Internal 20/40-GB DLT | | A + B (two bays) | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64- Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| AIT 50 GB Internal 1 AIT 50 GB External AIT 35 GB Internal AIT 35 GB External | | A, B | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64- Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| DLT Tape Array II 1 to 4 Model 35/70 | | External | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter |
| 40/80-GB DLT 35/70-GB DLT 20/40-GB DLT | Up to 3 | External | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64- Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| TL891 DLT Library (1 - 2 Drive) TL881 | 2 drives per SCSI | External | Compaq Dual Channel Wide-Ultra SCSI-3 |

DLT Library (1 - 2 channel Drive)

Adapter Compaq Wide-Ultra SCSI Adapter

0 - 5 - 6 x 1-inch Wide Ultra2/Ultra3 Hot Pluggable Hard Drive Bays A, B - Two available half height bays C - High Speed IDE CD-ROM - drive D - 3.5 in Diskette Drive

Rack Drive Support

| | Quantity Supported | Position Supported | Controller |
|--|--------------------|--|--|
| Removable Media | | | |
| 1.44-MB Diskette Drive | Up to 1 | D | Integrated |
| IDE CD-ROM Drive | Up to 2 | B,C | Integrated IDE |
| DVD-ROM Drive | Up to 2 | B,C | Integrated IDE |
| Hard Drives | | | |
| Wide Ultra3 Hot Pluggable Drives | | | |
| 1-inch 36.4-GB 10,000 rpm 18.2-GB 10,000 rpm 9.1-GB 10,000 rpm 18.2-GB 15,000 rpm 9.1-GB 15,000 rpm | Up to 6 | 0-5 | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| Wide Ultra3 SCSI - Non-Hot Plug | | | |
| 1-inch 36.4-GB 10,000 rpm 18.2-GB 10,000 rpm 9.1-GB 10,000 rpm | Up to 3 | A,B, C (Using the C position requires the removal of CD-ROM) | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| 1.6-inch 36.4-GB 10,000 rpm | Up to 2 | | |
| Wide Ultra2 Hot Pluggable Drives | | | |
| 1-inch 18.2-GB 10,000 rpm 18.2-GB 9.1-GB 10,000 rpm 9.1-GB | Up to 6 | 0-5 | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| Wide Ultra2 SCSI - Non-Hot Plug | | | |

| | | | |
|---|--|--|---|
| 1-inch 9.1-GB | 18.2-GB Up to 3 | A, B, C (Using the C position requires the removal of CD-ROM) | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64- Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| Wide-Ultra SCSI-3 - Hot Plug | | | |
| 1-inch 10,000 rpm 10,000 rpm 9.1-GB 9.1-GB | 36.4-GB 18.2-GB (with cage 18.2-GB option 264368- 001) Up to 4 (with Duplex option) | 0-4 | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64- Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| 1.6-inch 10,000 rpm | 36.4-GB 36.4-GB (with Duplex cage option 264368- 001) | Up to 2 0-3 | |
| External Storage | | | |
| StorageWorks Enclosure 4200/4300 Family (supports Wide Ultra2/Ultra3 drives) | Up to 12 | External | Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64- Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| ProLiant Storage System Models UE ProLiant Storage System Models U2 (supports Wide- Ultra SCSI-3 drives) | Up to 9 | External | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller 64- Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| SCSI Storage Expander II | Up to 3 | External | Smart Array 3200 Controller Integrated Dual Channel Wide-Ultra SCSI-3 Adapter 64- Bit/66Mhz Dual Channel Wide Ultra3 SCSI |

| | | | |
|------------------------------|----------|----------|---|
| StorageWorks Raid Array 4000 | Up to 12 | External | Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter Fibre Channel Host Adapter |
|------------------------------|----------|----------|---|

StorageWorks Raid
Array 4100

Maximum Storage Capacity (Hot Plug)

| | |
|----------|--|
| Internal | 218.4 GB (6 x 36.4-GB hot plug hard drives) |
| External | 3.931 TB (9 ProLiant Storage Systems, each with 12 x 36.4-GB 1" hard drives) |
| Total | 4.149 TB |

Maximum Storage Capacity (Hot Plug & Non-Hot Plug)

| | |
|----------|--|
| Internal | 291.2 GB (6 x 36.4-GB hot plug hard drives with 2 x 36.4 GB non-hot plug drives in removable media bays) |
| External | 3.931 TB (9 ProLiant Storage Systems, each with 12 x 36.4-GB 1" hard drives) |
| Total | 4.222 TB |

Maximum Storage Capacity (StorageWorks Enclosure SCSI Attached)

| | |
|----------|---|
| Internal | 218.4 GB (6 x 36.4-GB 1" hot plug hard drives) |
| External | 6.115 TB hot plug SCSI storage (12 x (14 x 36.4 GB 1" Wide Ultra3)) |
| Total | 6.333 TB |

| | | |
|------------------|------------------|-------------------|
| Quantity | Position | Controller |
| Supported | Supported | |

Tape Drives

Note: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:
http://www.compaq.com/products/quickspecs/North_America/10233_na.html (North America)
http://www.compaq.com/products/quickspecs/Division/10233_div.html (Division/World Wide)

| | | | |
|---|---------|------|--|
| Internal 12/24-GB DAT Internal 4/8-GB DAT Internal 4/8-GB SLR | Up to 2 | A, B | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| 20/40-GB DAT DDS-4 Tape Drive | Up to 2 | A, B | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66Mhz Single Channel Wide Ultra3 |

| | | | |
|---|-------------------------|---------------------|---|
| AIT 35 GB Internal AIT 35 GB External | 1 | A, B | SCSI Adapter Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64- Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| Internal 40/80-GB DLT Internal 35/70- GB DLT Internal 20/40-GB DLT | 1 | A + B (two bays) | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64- Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| DLT Tape Array II Model 35/70 | 1 to 4 | External | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter 64- Bit/66Mhz Single Channel Wide Ultra3 SCSI Adapter |
| 40/80-GB DLT 35/70-GB DLT 20/40-GB DLT | Up to 3 | External | Integrated Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter |
| TL891 DLT Library (1 - 2 Drive) TL881 DLT Library (1 - 2 Drive) | 2 drives per channel | External | Compaq Dual Channel Wide-Ultra SCSI-3 Adapter Compaq Wide- Ultra SCSI Adapter |

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- ❖ [Overview](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ❖ [Standard Features](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
- ❖ [Options](http://h18000.www1.hp.com/products/quickspecs/10035_div/10035_div.html)
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TechSpecs

System Unit

Dimensions

18.63 x 10.63 x 22.67 in/47.32 x 27 x 57.58 cm

Weight

63 lbs/28.35 kg (without hard drives)

Input Requirements

Range Line Voltage 90 to 132 VAC/180 to 265 VAC
Nominal Line Voltage 100 to 120 VAC/220 to 240 VAC
Line Frequency 50 to 60 Hz
Input Power 500W
BTU Rating 1,706 BTU
Power Supply Output Power 325W

Temperature Range

Operating 50° to 93°F/10° to 35°C
Shipping -22° to 140°F/-30° to 60°C

Relative Humidity (non-condensing)

Operating 20% to 80%
Non-operating 5% to 90%

Maximum Wet Bulb

101.7°F/38.7°C

Temperature

Acoustic Noise

| | L_{WAd} (BELS) | L_{pAm} (dBA) |
|---|------------------|-----------------|
| Idle (Fixed Disk Drives Spinning) | 6.9 7.0 | 50 52 |
| Operating (Random Seeks to Fixed Disks) | | |

System Unit - Rack

Dimensions

8.67 x 19 x 22.75 in/22 x 48.34 x 55.9 cm

Weight

63 lbs/28.35 kg (without hard drives)

Input Requirements

Range Line Voltage 90 to 132 VAC/180 to 265 VAC
Nominal Line Voltage 100 to 120 VAC/220 to 240 VAC
Input Power 500W
Line Frequency 50 to 60 Hz
BTU Rating 1,706 BTU
Power Supply Output Power 325W

Temperature Range

Operating 50° to 93°F/10° to 35°C
Shipping -22° to 140°F/-30° to 60°C

Relative Humidity (non-condensing)

Operating 20% to 80%
Non-operating 5% to 90%

Maximum Wet Bulb

101.7°F/38.7°C

Temperature

Acoustic Noise

| | L_{WAd} (BELS) | L_{pAm} (dBA) |
|--|------------------|-----------------|
| | | |

Idle (Fixed Disk Drives Spinning) Operating (Random Seeks to Fixed Disks) 6.9 7.0 50 52

1.44-MB Diskette Drive

Diskette Size 3.5 in
LED Indicators (front panel) Green
Read/Write Capacity per Diskette (high/low density) 1.44 MB/720 KB
Drive Supported One
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) 94/169 ms
Settling Time 15 ms
Latency Average 100 ms
Cylinders (high/low) 80/80
Read/Write Heads Two

Hot Plug Wide Ultra3 SCSI Hard Drives

36.4 GB 10K

| | | | |
|-----------------------|------------------|--|---------------------------|
| Capacity | 36400 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 | 5.2 ms |
| Interface | Wide Ultra3 SCSI | Full-Stroke | 12 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 10K

| | | | |
|-----------------------|------------------|--|---------------------------|
| 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 | 5.2 ms |
| Interface | Wide Ultra3 SCSI | Full-Stroke | 12 ms |
| Transfer Rate | | Rotational Speed | 10,000 rpm |
| Synchronous (Maximum) | 160 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

| | | | |
|-----------------------|------------------|--|---------------------------|
| 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 | 5.0 ms |
| Interface | Wide Ultra3 SCSI | Full-Stroke | 12 ms |
| Transfer Rate | | Rotational Speed | 10,000 rpm |
| Synchronous (Maximum) | 160 MB/s | Physical Configuration | |
| | | Bytes/Sector | 512 |
| | | Logical Blocks | 17,773,524 |
| | | Operating Temperature | 50° to 95° F/10° to 35° C |

18.2 GB15K

| | | | |
|-----------------------|------------------|--|---------------------------|
| 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 | 5.0 ms |
| Interface | Wide Ultra3 SCSI | Full-Stroke | 12 ms |
| Transfer Rate | | Rotational Speed | 15,000 rpm |
| Synchronous (Maximum) | 160 MB/s | Physical Configuration | |
| | | Bytes/Sector | 512 |
| | | Logical Blocks | 35,565,080 |
| | | Operating Temperature | 50° to 95° F/10° to 35° C |

9.1 GB15K

| | | | |
|-----------------------|------------------|--|---------------------------|
| 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 | 5.0 ms |
| Interface | Wide Ultra3 SCSI | Full-Stroke | 12 ms |
| Transfer Rate | | Rotational Speed | 15,000 rpm |
| Synchronous (Maximum) | 160 MB/s | Physical Configuration | |
| | | Bytes/Sector | 512 |
| | | Logical Blocks | 17,773,524 |
| | | Operating Temperature | 50° to 95° F/10° to 35° C |

Non-Hot Plug Wide Ultra3 SCSI Hard Drives**36.4 GB10K**

| | | | |
|-----------------------|------------------|--|------------|
| Capacity | 36419.5 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 Ultra3 SCSI | Full-Stroke | 13 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

36.4 GB 10K

Capacity 36419.5 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 Ultra3 Full-Stroke 13 ms
 SCSI
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 10K

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 5.5 ms
Interface Wide Ultra3 Full-Stroke 12 ms
 SCSI
Transfer Rate Rotational Speed 10,000 rpm
 Synchronous (Maximum) 160 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

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 Ultra3 Full-Stroke 12.2 ms
 SCSI
Transfer Rate Rotational Speed 10,000 rpm
 Synchronous (Maximum) 160 MB/s

Physical Configuration
 Bytes/Sector 512
 Logical Blocks 17,773,524
Operating Temperature 50° to 95° F/10° to 35° C

Hot Plug Wide Ultra2 SCSI Hard Drives

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 Wide Ultra2 Full-Stroke 15.0 ms

| | | | |
|-----------------------|---------|-------------------------------|---------------------------|
| | SCSI | Rotational Speed | 7200 rpm |
| Transfer Rate | | Physical Configuration | |
| Synchronous (Maximum) | 80 MB/s | Bytes/Sector | 512 |
| | | Logical Blocks | 35,566,080 |
| | | Operating Temperature | 50° to 95° F/10° to 35° C |

| | | | |
|-----------------------------|------------------|--|---------|
| 18.2 GB 10K 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 | 5.7 ms |
| Interface | Wide Ultra2 SCSI | Full-Stroke | 12.2 ms |

| | | | |
|-----------------------|---------|-------------------------------|---------------------------|
| | | Rotational Speed | 10,000 rpm |
| Transfer Rate | | Physical Configuration | |
| Synchronous (Maximum) | 80 MB/s | Bytes/Sector | 512 |
| | | Logical Blocks | 35,565,080 |
| | | Operating Temperature | 50° to 95° F/10° to 35° C |

| | | | |
|----------------------------|------------------|--|---------|
| 9.1 GB 10K 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 |

| | | | |
|-----------------------|---------|-------------------------------|---------------------------|
| | | Rotational Speed | 10,000 rpm |
| Transfer Rate | | Physical Configuration | |
| Synchronous (Maximum) | 80 MB/s | Bytes/Sector | 512 |
| | | Logical Blocks | 17,773,524 |
| | | Operating Temperature | 50° to 95° F/10° to 35° C |

| | | | |
|------------------------|------------------|--|---------|
| 9.1 GB 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 | 7.9 ms |
| Interface | Wide Ultra2 SCSI | Full-Stroke | 16.0 ms |

| | | | |
|-----------------------|---------|-------------------------------|---------------------------|
| | | Rotational Speed | 7200 rpm |
| Transfer Rate | | Physical Configuration | |
| Synchronous (Maximum) | 80 MB/s | Bytes/Sector | 512 |
| | | Logical Blocks | 17,773,524 |
| | | Operating Temperature | 50° to 95° F/10° to 35° C |

Non-Hot Plug Wide Ultra2 SCSI Hard Drives

| | | | |
|-------------------------|------------|--|--|
| 18.2 GB Capacity | 18209.3 MB | Seek Time (typical reads, including settling) | |
|-------------------------|------------|--|--|

| | | | |
|--------------------------|---------------------|-----------------------------------|------------------------------|
| Height | 1 in/25.4 mm | settling) | |
| Width | 3.5 in/88.9 mm | Single Track | 0.8 ms |
| Interface | Wide Ultra2 SCSI | Average | 6.9 ms |
| | | Full-Stroke | 15.0 ms |
| Transfer Rate | | Rotational Speed | 7200 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 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 | 7200 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 |

| | | | |
|---|-----------------|---|------------------------------|
| Hot Plug Wide-Ultra SCSI-3 Hard Drives | | | |
| 36.4 GB 10K | | | |
| Capacity | 36419.5 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-Ultra SCSI | Full-Stroke | 13 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 |

| | | | |
|-----------------------------|----------------------|---|---------------------|
| 36.4 GB Capacity | 36419.5 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 | 7.4 ms |
| Interface | Wide-Ultra SCSI-3 | Full-Stroke | 17.0 ms |
| Transfer Rate | | Rotational Speed | 10,000 rpm |
| Synchronous (Maximum) | 40 MB/s | Physical Configuration | |
| | | Bytes/Sector | 512 |
| | | Logical Blocks | 71,132,000 |
| | | Operating | 50° to 95° F/10° to |

| | | | |
|-----------------------------|-------------------|--|---------------------------|
| | | Temperature | 35° C |
| 36.4 GB 10K Capacity | 36419.5 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-3 | 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 |
| 18.2 GB 10K Capacity | 18209.8 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-Ultra SCSI-3 | 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 |
| 18.2 GB Capacity | 18209.8 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-Ultra SCSI-3 | Full-Stroke | 16.0 ms |
| Transfer Rate | | Rotational Speed | 7200 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 |
| 9.1 GB 10K 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-3 | 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

9.1 GB

Capacity 9100.0 MB

Height 1 in/25.4 mm
Width 3.5 in/88.9 mm
Interface Wide-Ultra SCSI-3

Transfer Rate

Synchronous 40 MB/s
(Maximum)

Seek Time (typical reads, including settling)
Single Track 0.8 ms
Average 7.9 ms
Full-Stroke 17.0 ms

Rotational Speed 7200 rpm

Physical Configuration

Bytes/Sector 512
Logical Blocks 17,773,500
Operating Temperature 50° to 95° F/10° to 35° C

40X Max IDE CD-ROM Drive

Disk Applicable Disk

CD-ROM, CD-XA, CD-DA (Mode 1, Mode 2, Form 1 and 2) Photo CD (Single and Multi-session) Mixed Mode (Audio and Data combined) CD-R

Capacity 540 MB (Mode 1, 12 cm) 650 MB (Mode 2, 12 cm)

Block Size Mode 1 Mode 2 CD- 2,048 bytes 2,340 bytes, 2,336 bytes
DA CD-XA 2,352 bytes 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

Data Transfer Rate

Sustained 150 KB/s (1X audio)
Burst 16.67 Mbytes/sec

Cache Buffer 128 KB

Start-up Time (typical) < 7 seconds

Stop Time < 4 seconds

Laser Parameters

Type Semiconductor Laser GaAlAs
Wave Length 780 ± 25 nm

Operating Conditions

Temperature 41° to 113°F/5° to 45°C
Humidity 10% to 80%

Dimensions

(HxWxD, maximum) 1.7 x 5.85 x 8.11 in/4.29 x 150 x 208 cm

Weight 2.09 lbs/0.95 kg

32X Max CD-ROM Drive IDE

Disk Applicable Disk

CD-ROM (Mode 1 and 2) CD-DA, CD-XA (Mode 2, Form 1 and 2) Photo CD (Single and Multi-session) Mixed

| | |
|--|---|
| Capacity | Mode (Audio and Data combined) CD-Recordable CD-Rewritable 540 MB (Mode 1, 12 cm) 650 MB (Mode 2, 12 cm) |
| Block Size Mode 1 Mode 2 CD-DA CD-XA | 2,048 2,340, 2,336 2,352 bytes 2,328 bytes |
| Access Times (typical) | |
| Random | < 100 ms |
| Full-Stroke | < 150 ms |
| Diameter | 4.7 in, 3.15 in/12 cm, 8 cm |
| Thickness | 0.05 in/1.2 mm |
| Track Pitch | 1.6 μ m |
| Audio Output Level | |
| Line-Out | 0.7 VRMS at 47 kOhms |
| Headphone | 0.6 VRMS at 32 Ohms (maximum volume) |
| Data Transfer Rate | |
| Sustained | 150 KB/s (sustained 1X) |
| Burst | 2100 to 4800 KB/s (14X to 32X) |
| Cache Buffer | 128 KB (minimum) |
| Start-up Time (typical) | < 7 seconds; < 30 seconds (multi-session) |
| Stop Time | < 4 seconds; < 30 seconds (multi-session) |
| 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 118 $^{\circ}$ F/5 $^{\circ}$ to 45 $^{\circ}$ C |
| Humidity | 10% to 80% |
| Dimensions (HxWxD, maximum) | 1.88 x 5.85 x 8.11 in/42.9 x 15 x 208 cm |
| Weight | 2.09 lbs/0.95 kg |
| Integrated Dual Channel Wide-Ultra SCSI-3 Adapter | |
| Drives Supported | Up to seven SCSI devices per channel |
| Transfer Method | 32-bit PCI bus master |
| Channel Transfer Rate | 40 MB/s per channel |
| Maximum Transfer Rate per PCI Bus (peak) | 133 MB/s |
| SCSI Termination | Active Termination |
| SCSI Connectors | 1 external, 2 internal (68-pin) |
| Compaq 10/100 PCI UTP Controller (embedded) | |
| Network Interface | 10Base-T/100Base-TX IEEE |
| Compatibility | 802.3/802.3u compliant |
| Data Transfer Method | 32-bit bus-master PCI |
| Network Transfer Rate | 10 Mb/s 20 Mb/s 100 Mb/s 200 Mb/s |
| 10Base-T (Half-Duplex) | |
| 10Base-T (Full-Duplex) | |
| 100Base-TX (Half-Duplex) | |
| 100Base-TX (Full-Duplex) | |
| Connector | RJ-45 |
| Cable Support | |

10Base-T Categories 3, 4 or 5 UTP (2 or 4 pair);
up to 328 feet (100 meters)
100Base-TX Category 5 UTP (2 pair); up to 328
feet (100 meters)

Smart Array 4200 Controller

Data Compatible with all Yes

Smart Array Controllers

Instant Upgrades to other Yes

Smart Array Controllers

Consistent Software Yes

Manageability Tools

PCI Bus 64-bit, 33 MHz

PCI Peak Data Transfer Rate 266 MB/s

SCSI Protocols Supported Ultra2, Wide-Ultra

SCSI Peak Data Transfer Rate 320 MB/s total, 80 MB/s per channel

Channels 4

SCSI Ports (external/internal) 4/2

Drives Supported (maximum) 56

Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure).

Cache 64-MB battery backed read-write

RAID Support 0, 1, 0+1, 5

Logical Drives (maximum) 32

Online Configuration Yes

Online Capacity Expansion Yes

Logical Drive Capacity Yes

Extension

Online Stripe Size Migration Yes

Online RAID Level Migration Yes

Online Spare Support Yes

Automatic Data Recovery Yes

Drive Roaming Yes

Redundant Controllers No

Smart Array 3200 Controller

Data Compatible with all Yes

Smart Array Controllers

Instant Upgrades to other Yes

Smart Array Controllers

Consistent Software Yes

Manageability Tools

PCI Bus 32-bit, 33 MHz

PCI Peak Data Transfer Rate 133 MB/s

SCSI Protocols Supported Ultra2, Wide-Ultra

SCSI Peak Data Transfer Rate 160 MB/s total, 80 MB/s per channel

Channels 2

SCSI Ports (external/internal) 2/2

Drives Supported (maximum) 28

Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure).

Cache 64-MB battery backed read-write

RAID Support 0, 1, 0+1, 4, 5

Logical Drives (maximum) 32

Online Configuration Yes

Online Capacity Expansion Yes

| | |
|---|---|
| Logical Drive Capacity Extension | Yes |
| Online Stripe Size Migration | Yes |
| Online RAID Level Migration | Yes |
| Online Spare Support | Yes |
| Automatic Data Recovery | Yes |
| Drive Roaming | Yes |
| Redundant Controllers | No |
| Smart Array 431 Controller | |
| Data Compatible with all Smart Array Controllers | Yes |
| Instant Upgrades to other Smart Array Controllers | Yes |
| Consistent Software Manageability Tools | Yes |
| PCI Bus | 64-bit, 66MHz |
| PCI Peak Data Transfer Rate | 533 MB/s |
| SCSI Protocols Supported | Ultra3, Ultra2, Wide-Ultra |
| SCSI Peak Data Transfer Rate | 160 MB/s |
| Channels | 1 |
| SCSI Ports (external/internal) | 1/1 |
| Drives Supported (maximum) | 14 |
| Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure). | |
| Cache | 16-MB cache engine |
| RAID Support | 0, 1, 0+1 5 |
| Logical Drives (maximum) | 32 |
| Online Configuration | Yes |
| Online Capacity Expansion | Yes |
| Logical Drive Capacity Extension | Yes |
| Online Stripe Size Migration | Yes |
| Online RAID Level Migration | Yes |
| Online Spare Support | Yes |
| Automatic Data Recovery | Yes |
| Drive Roaming | Yes |
| Redundant Controllers | No |
| 64-Bit / 66-MHz Single Channel Wide Ultra3 SCSI Adapter | |
| Drives Supported Storage Capacity | Up to 14 SCSI devices 254.8 GB 64-bit / 66-MHz PCI bus-master 160 |
| Data Transfer Method | Maximum SCSI Channel Transfer Rate |
| Maximum Transfer Rate per PCI Bus (peak) | 532 MB/s per channel |
| SCSI Protocols | Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast SCSI-2 |
| Electrical Protocol | Low Voltage Differential (LVD) |
| SCSI Termination | Active Termination |
| External SCSI Connectors | One 68-Pin Wide Ultra SCSI-3 connector |
| Internal SCSI Connectors | Two 68-Pin Wide Ultra SCSI-3 connectors (one LVD and one SE) One 50-Pin Narrow Ultra connector |
| 64-Bit / 66-MHz Dual Channel Wide-Ultra3 SCSI Adapter | |

| | |
|---|--|
| Drives Supported | Up to 28 SCSI devices per channel |
| Storage Capacity | 1.019 TB |
| Data Transfer Method | 64-bit / 66-MHz PCI bus master |
| Maximum SCSI Channel Transfer Rate | 160 MB/s per channel |
| Maximum Transfer Rate per PCI Bus (peak) | 532 MB/s per channel |
| SCSI Protocols | Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast SCSI-2 |
| Electrical Protocols | Low Voltage Differential (LVD) |
| SCSI Termination | Active Termination |
| External SCSI Connectors | Two 68-Pin VHDCI connectors |
| Internal SCSI Connectors | Two 68-Pin Wide ultra SCSI-3 connectors One 50-Pin Narrow Ultra connector |

Compaq Rack 9142 (42U) (optional)

| Dimensions | Total Cabinet | Shipping | 83.38 | Color |
|-------------------|----------------------|-------------------|--------------|--------------|
| Height | 78.7 in/2,000 mm | in/2,168.65 mm | | |
| Depth | 35.8 in/909 mm | 48 in/1,219.2 mm | | Opal |
| Width | 23.7 in/603 mm | 32 in/812.8 mm | | |
| Weight | 253 lbs/114.84 kg | 325 lbs/147.52 kg | | |

Compaq Rack 9136 (36U) (optional)

| Dimensions | Total Cabinet | Shipping | 75.25 | Color |
|-------------------|----------------------|------------------|--------------|--------------|
| Height | 68.6 in/1,742 mm | in/1,911.35 mm | | |
| Depth | 35.8 in/909 mm | 48 in/1,219.2 mm | | Opal |
| Width | 23.7 in/603 mm | 32 in/812.8 mm | | |
| Weight | 165 lbs/75 kg | 234 lbs/106 kg | | |

Compaq Rack 9122 (22U) (optional)

| Dimensions | Total Cabinet | Shipping | 52.25 | Color |
|-------------------|----------------------|-------------------|--------------|--------------|
| Height | 43 in/1,092 mm | in/1,327.15 mm | | |
| Depth | 35.8 in/909 mm | 48 in/1,219.2 mm | | Opal |
| Width | 24 in/610 mm | 32 in/812.8 mm | | |
| Weight | 176 lbs/79.89 kg | 225 lbs/102.13 kg | | |

Compaq Rack 7142 (42U) (optional)

| Dimensions | Total Cabinet | Usable Area | 73.5 | Shipping | 90.75 |
|-------------------|----------------------|--------------------|-------------|-----------------|--------------|
| Height | 85 in/215.9 cm | in/186.69 cm | | in/230.5 cm | |
| Depth | 33.25 in/84.45 cm | 29.21 in/74.19 cm | | 48 in/121.92 cm | |
| Width | 23.25 | 19 in/48.26 cm | | 32 in/81.28 cm | |

| | | |
|--------|--|----------------------|
| Weight | in/59.05 cm 253 - lbs/114.84 kg | 325 lbs/147.52 kg |
|--------|--|----------------------|