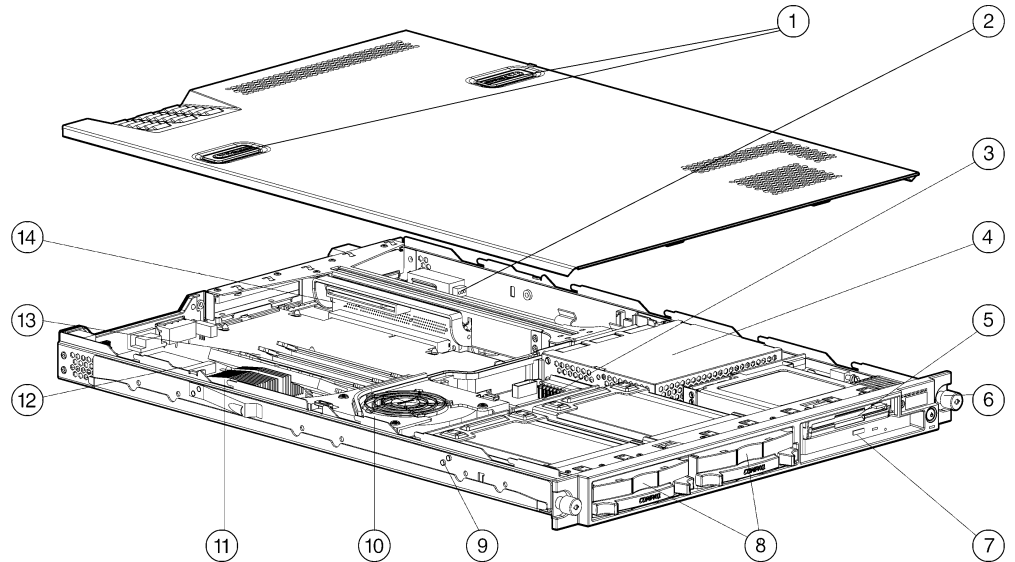


## Overview

### AT A GLANCE

- 1U Rack form factor (1.75")
- Intel Pentium III 800 MHz Processor (dual capability)
- Intel Pentium III 550 MHz Processor (single capability)
- ServerWorks LE 3.0 Chipset with 133 MHz Front Side Bus (800 MHz Models) or 100 MHz Front Side Bus (550 MHz Model)
- Remote Insight Lights-Out Edition ships standard with 800 MHz RILO Model (available in EMEA only)
- PC133 MHz Registered ECC SDRAM memory
- Integrated Smart Array Controller
- Two full length expansion PCI slots: One 64-Bit/33MHz and one 32-Bit/33MHz
- 190 Watt Power Supply
- 256-KB level 2 ECC cache
- 128-MB PC133 MHz Registered ECC SDRAM memory, expandable to 4 GB
- Two Compaq NC3163 Fast Ethernet NIC Embedded 10/100 WOL (Wake On LAN)
- Wide Ultra2/Ultra3 SCSI Drive Cage standard supports up to two 1" Wide Ultra2/Ultra3 hot plug hard drives
- Internal hot plug capacity up to 72.8 GB (2 x 36.4 GB)
- Exceptional serviceability with optional sliding rails, cable management and in-rack tool-free service ability access
- Dual Peer PCI Bus Architecture for concurrent memory and processor access from PCI buses
- Integrated Remote Console (IRC), Automatic Server Recovery-2 (ASR-2), Compaq Insight Manager and *SmartStart™*
- 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 Center at 1-800-345-1518 for details.



- |   |  |
|---|--|
| 1. Thumb Tabs                               | 8. Wide Ultra2/Ultra3 Hot Plug Drive Bays (2x1") |
| 2. 64-Bit/33MHz PCI Slot (not shown)        | 9. Fixed Rails                                   |
| 3. SCSI Backplane                           | 10. Fan  |
| 4. Power Supply                             | 11. Processor Slot 1 (populated)                 |
| 5. 1.44-MB Floppy Drive                     | 12. Processor Slot 2 (unpopulated)               |
| 6. LED Indicators                           | 13. DIMM Memory Slots (4 total)                  |
| 7. Low Profile, High Speed IDE CD-ROM Drive | 14. 32-Bit/33MHz PCI Slot                        |

# QUICK SPECS

Compaq *ProLiant* DL360

## Standard Features

### MODELS

#### Compaq *ProLiant*™ DL360

Available in multiple configurations.

Some models not available in all countries.

#### Processor – One of the following:

Intel Pentium III processor 800 MHz  
Intel Pentium III processor 550 MHz

#### Upgradability

Upgradable to dual processing  
(Note: Dual processing only available with the 800 MHz processors)

#### Memory

Standard	128 MB (PC133 MHz Registered ECC SDRAM memory) (Note: PC133 MHz Memory will run at 100 MHz in 550 MHz Model)
Maximum	4 GB

#### Network Controller

Two Compaq NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)

#### Expansion Slots

I/O (Total)	2
64-Bit PCI/33MHz	1
32-Bit PCI/33MHz	1

#### Manageability

Remote Insight Lights-Out Edition  
(Note: This ships standard with the 800 MHz RILO Model only – available in EMEA only)

#### Storage Controller

Integrated Smart Array Controller

#### Storage

Diskette Drive	1.44 MB
CD-ROM	High Speed IDE CD-ROM Drive (Low Profile)
Hard Drives	None
Maximum Internal Storage	72.8 GB (internal drive cage) (2 x 36.4 GB 1" drives)

#### Interfaces

Serial	1
Pointing Device (Mouse)	1
Graphics	1
Hot Plug Keyboard	1
External SCSI (for tape only)	1
Network RJ-45	2

#### Graphics

Integrated ATI Rage IIC Video Controller with 4MB Video Memory

#### Form Factor

Rack (1U), (1.75-in/ 4.45 cm)

#### Compaq Software

Compaq <i>Insight Manager</i> ™	The comprehensive system management tool that monitors the operation of Compaq servers, workstations and clients
Compaq <i>SmartStart</i> ™	The server configuration and software integration tool from Compaq
Array Configuration Utility (ACU) with Smart Array Controllers	Same easy to use yet powerful graphical user interface (GUI) configuration utility and easy to navigate wizards for all Smart Array Controllers including the Integrated Smart Array Controller

## Standard Features

### Intelligent Manageability

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- Automatic Server Recovery-2 (ASR-2)
- Compaq Remote Insight Board (PCI) (optional)
- Compaq Remote Insight Lights-Out Edition (standard on 800 MHz RILO Model, optional on all other Models)
- Compaq Insight Manager
- 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 Log
- Server Health Logging
- Revision History Table
- Automatic Revision Tracking
- Drive Parameter Tracking (with Smart Array Controllers)
- Dynamic Sector Repairing (with Smart Array Controllers)
- Recovery Server Option (optional)
- Off-Line Backup Processor capability
- Pre-Failure Warranty (covers processors, hard drives and memory)

### Security

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- Power-on password
- Keyboard password
- Diskette drive control
- Diskette boot control
- QuickLock, Network Server Mode
- Removable CD/Floppy Drive Assembly
- Serial interface control
- Administrator's password
- Disk configuration lock

### Power Supply

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- Dual Input Voltage, Auto-sensing 190 Watt, 292 Watt peak input, 3 integrated fans with failure sensors, CE Mark Compliant

### Ultra Thin Rack Deployment Overview

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For the Ultra Thin Rack Deployment Overview including best practices for the Compaq ProLiant DL360, please see the following URL: <http://www.compaq.com/products/servers/proliantdl360/>

**Note:** This web site available in English only.

### Required Cabling

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For required cabling information, refer to the Compaq website at <http://www.compaq.com/products/servers/proliantdl360/>.

**Note:** This web site available in English only.

## *Standard Features*

### OS Support

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Microsoft Windows NT Server  
Microsoft Windows 2000  
Novell NetWare 5.1  
SCO UnixWare  
LINUX (RedHat, S.U.S.E., TurboLinux Server, Caldera eServer)

**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 DL360, please see: <http://www.compaq.com/support/files/server/us/index.html>

### Service and Support

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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 CarePaq 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.

# QUICK SPECS

Compaq ProLiant DL360

## Standard Features

**DL360R01 P800-256K  
RILO**  
212979-421

**Note:** Available in EMEA only

<b>Processor(s)</b>	Intel Pentium III processor 800 MHz	<b>Network Controller</b>	Two Compaq NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL
<b>Cache Memory</b>	256-KB level 2 ECC cache	<b>Storage Controller</b>	Integrated Smart Array Controller
<b>Memory</b>	PC133-MHz Registered ECC SDRAM	<b>Internal Storage</b>	72.8 GB max
Standard	128 MB	<b>Optical Drive</b>	High Speed IDE CD-ROM Drive (Low Profile)
Maximum	4 GB	<b>Form Factor</b>	Rack (1U), (1.75-in / 4.45 cm)
		<b>Manageability</b>	Remote Insight-Lights Out Edition

**DL360R01 P800-256K**  
161080-xx1

<b>Processor(s)</b>	Intel Pentium III processor 800 MHz	<b>Network Controller</b>	Two Compaq NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL
<b>Cache Memory</b>	256-KB level 2 ECC cache	<b>Storage Controller</b>	Integrated Smart Array Controller
<b>Memory</b>	PC133 MHz Registered ECC SDRAM	<b>Internal Storage</b>	72.8 GB max
Standard	128 MB	<b>Optical Drive</b>	High Speed IDE CD-ROM Drive (Low Profile)
Maximum	4 GB	<b>Form Factor</b>	Rack (1U), (1.75- in / 4.45 cm)

**DL360R01 P550-256K**  
161219-xx1

<b>Processor(s)</b>	Intel Pentium III processor 550 MHz	<b>Network Controller</b>	Two Compaq NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL
<b>Cache Memory</b>	256-KB level 2 ECC cache	<b>Storage Controller</b>	Integrated Smart Array Controller
<b>Memory</b>	PC133 MHz Registered ECC SDRAM	<b>Internal Storage</b>	72.8 GB max
Standard	128 MB	<b>Optical Drive</b>	High Speed IDE CD-ROM Drive (Low Profile)
Maximum	4 GB	<b>Form Factor</b>	Rack (1U), (1.75- in / 4.45 cm)

### Country Code Key

XX=00	NA
XX=01	Australia
XX=03	UK
XX=06	Italy
XX=08	Denmark
XX=11	Swiss
XX=29	Japan
XX=37	APD
XX=42	EURO
XX=AA	PRC

## Options

### Processor

P800 Pentium III 256K Processor Option Kit	175342-B21
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### Memory (DIMMs)

1024-MB PC133MHz Registered ECC SDRAM DIMM Memory Option Kit	128280-B21
512-MB PC133MHz Registered ECC SDRAM DIMM Memory Option Kit	128279-B21
256-MB PC133MHz Registered ECC SDRAM DIMM Memory Option Kit	128278-B21
128-MB PC133MHz Registered ECC SDRAM DIMM Memory Option Kit	128277-B21
64-MB PC133MHz Registered ECC SDRAM DIMM Memory Option Kit	128276-B21

**Note:** The PC133MHz Registered ECC SDRAM DIMM Memory Kits will run at 100 MHz speeds when installed in the 550 MHz Model.

### Hard Drives

#### 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
9.1-GB Wide Ultra3 SCSI 15,000 rpm Drive (1")	188120-B22
18.2-GB Wide Ultra3 SCSI 15,000 rpm Drive (1")	188122-B22

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

#### Wide Ultra2 SCSI – Universal Hot Plug

18.2-GB Wide Ultra2 SCSI Drive (1")	388144-B22
9.1-GB Wide Ultra2 SCSI Drive (1")	123065-B22

### Storage Controllers

Smart Array 4200 Controller	295636-B21
<b>Note:</b> Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).	
Smart Array 4200 Controller (Japan)	295636-291
<b>Note:</b> Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).	
Smart Array 5302/32 Controller	166207-B21
<b>Note:</b> Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).	
Smart Array 5302/32 Controller (Japan)	166207-291
<b>Note:</b> Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).	
Smart Array 5302/64 Controller	124992-B21
<b>Note:</b> Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).	
Smart Array 5302/64 Controller (Japan)	124992-291
<b>Note:</b> Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).	
Smart Array 5304/128 Controller	158939-B21
<b>Note:</b> Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).	
Smart Array 5304/128 Controller (Japan)	158939-291
<b>Note:</b> Supports internal drives with purchase of Internal Array Controller Cabling Option Kit (174571-B21).	
Ultra3 Channel Expansion Module for Smart Array 5300 Controller	153507-B21
Internal Array Controller Cabling Option Kit	174571-B21
<b>Note:</b> For internal drive support utilizing a Smart Array 4200 or Smart Array 5300 Controller.	
Smart Array 431 Controller	127695-B21
<b>Note:</b> For support of external drives.	
Smart Array 431 Controller (Japan)	127695-291
<b>Note:</b> For support of external drives.	
Smart Array 3200 Controller	295643-B21
<b>Note:</b> For support of external drives.	

## Options

### Storage Controllers *(continued)*

Smart Array 3200 Controller (Japan)	295643-291
<b>Note:</b> For support of external drives.	
64-Bit/66MHz Single Channel Wide Ultra3 SCSI Adapter	154457-B21
<b>Note:</b> For support of external drives.	
<b>Note:</b> This adapter will run at 33MHz speeds due to the 33MHz PCI Bus.	
64-Bit/66MHz Single Channel Wide Ultra3 SCSI Adapter (Japan)	154457-291
<b>Note:</b> For support of external drives.	
<b>Note:</b> This adapter will run at 33MHz speeds due to the 33MHz PCI Bus.	
64-Bit/66 MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
<b>Note:</b> For support of external drives.	
<b>Note:</b> This adapter will run at 33MHz speeds due to the 33MHz PCI Bus.	
64-Bit/66 MHz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291
<b>Note:</b> For support of external drives.	
<b>Note:</b> This adapter will run at 33MHz speeds due to the 33MHz PCI Bus.	

### Communications

Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21
Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	138603-B21
Compaq NC3135 Fast Ethernet Upgrade Module	138604-B21
Compaq NC3122 Fast Ethernet NIC PCI Dual 10/100	317450-B21
Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134 and NC3131	338456-B23
Compaq NC6133 Gigabit Module 1000LX Upgrade Module for NC3134 and NC3131	338456-B24
Compaq NC3133 Fast Ethernet Module 100FX Upgrade Module for NC3134 and NC3131	338456-B25
Compaq NC6134 Gigabit NIC 64 PCI 1000SX	174818-B21
Compaq NC4621 Token Ring NIC PCI 4/16 WOL	379956-B21
IBM 16/4 Token Ring PCI Special	133749-B21
<b>Note:</b> Any NC31XX or NC61XX NIC can be used for redundancy with the embedded NC3163 Network Controller.	
ServerNet PCI Adapter	309833-B22
4M Cable	309834-B23
30M Cable	309834-B22
ServerNet II PCI Adapter Card Kit	174736-B21
ServerNet II 12-Port Copper Serial Switch Kit (US)	174739-001
ServerNet II 12-Port Copper Serial Switch Kit (Int'l)	174739-B31
ServerNet II 5-meter Copper Serial Cable Kit	174737-B21
ServerNet II 10-meter Copper Serial Cable Kit	174738-B22

### Management Options

Compaq Remote Insight Lights-Out Edition (NA, LA)	157866-001
Compaq Remote Insight Lights-Out Edition (EURO)	157866-021
Compaq Remote Insight Lights-Out Edition (APD, Japan)	157866-371

### Monitors

TFT5000R Rackmount Flat Panel (NA)	120207-xxx
TFT5010 15" Flat Panel Monitor (Opal)	104741-xxx
TFT5010 15" Flat Panel Monitor (Carbon)	154486-xxx
TFT5005 Flat Panel Monitor (Opal)	201431-xxx
TFT5005 Flat Panel Monitor (Carbon)	201430-xxx
P700 Color Monitor	380207-xxx
V710 Color Monitor	187895-xxx
V500 Color Monitor	325900-xxx
S510 Color Monitor	168636-xxx
S710 Color Monitor	152991-xxx

## Options

### CRT Country Code Key

#### NORTH AMERICA (NA) / LATIN AMERICA (LA)

Dash #	Description		
		-201	EH model for Brazil (older Brazil models used -B29)
-001	NA Kit with US Power Cord	-202	EH model for Brazil Carbon (older Brazil models used -B29)
-002	Carbon model with US Power Cord	-C91	EH model for Mercosur countries
-003	Touch Screen model with US Power Cord	-C92	EH model for Mercosur countries Carbon
-004	NAFTA model with US Power Cord (Made in Mexico)	-B29	EH / ALADI model for Latin America
-005	NA Kit with Powered Speakers		
-006	GSA model with US Power Cord		
-007	NH MPR model with US power cord (Made in Mexico)		
-B24	TCO model without power cord (Digital Classic)		

**Note:** All NA/LA models above are NH

#### EUROPE, MIDDLE EAST AND AFRICA (EMEA)

Dash #	Description		
-021	NH / TCO with Eurocord (DCE Hub)	-031	NH / TCO with UK Cord (UK Hub)
-022	NH / MPR with Eurocord (DCE Hub) (India)	-032	NH / MPR with UK Cord (UK Hub)
-023	NH Carbon model with Eurocord (DCE Hub)	-033	NH / TCO carbon with UK Cord
-024	NH Touch Screen model with Eurocord (DCE Hub)	-035	NH Kit with Speakers and UK Cord
-025	NH Kit with Speakers and Eurocord	-B21	SH / MPR without power cord (S. Africa Hub)
-A91	NH / TCO without power cord (Dubai hub)	-B23	SH / TCO without power cord (S. Africa Hub)
-A92	NH / MPR without power cord (Dubai hub)	-B27	SH / TCO Carbon without power cord (S. Africa Hub)

#### PACIFIC / AUSTRALIA (APD)

Dash #	Description		
-B22	NH / MPR without power cord	-012	SH Carbon model with AUZ/NZ power cord
-B24	NH / TCO without power cord	-AD1	NH model for Korea
-B25	EH Carbon model without power cord	-AD2	NH Carbon model for Korea
-B26	NH Touch Screen model without power cord	-B28	EH model without power cord
-011	SH model with AUZ/NZ power cord	-B35	EH model with speakers no power cord (Singapore)
-015	SH model with speakers AUZ/NZ power cord		

#### GREATER CHINA (GCD)

Dash #	Description		
-AA1	NH / China Kit with CCIB label (Local Sales)	-KA1	NH / China Kit with CCIB label (External Sales/Bundles in HK)
-AA2	NH/ Carbon China Kit with CCIB label (Local Sales)	-AB1	NH / Taiwan kit, mfg. in Taiwan

#### JAPAN (CKK)

Dash #	Description		
-291	NH / Japan Kit with 3-2 pin adapter	-292	NH Carbon Japan Kit with 3-2 pin adapter



## Options

### CRT Country Code Key (continued)

#### TFT Country Code Key

##### EUROPE, MIDDLE EAST & AFRICA (EMEA)

Dash #	Description		
-AA1	NH / China Kit with CCIB label (Local Sales)	-KA1	NH / China Kit with CCIB label (External Sales/Bundles in HK)
-AA2	NH/ Carbon China Kit with CCIB label (Local Sales)	-AB1	NH / Taiwan kit, mfg. in Taiwan

##### NORTH AMERICA

Dash #	Description		
-001	NA	-B24	All NA/LA models

##### APD

Dash #	Description
-011	Australia/NZ

##### JAPAN (CKK)

Dash #	Description
-291	Japan

### External Tape Drives (Note: Only external Tape Drives supported by the ProLiant DL360)

20/40-GB DAT 8 Cassette Autoloader External	166505-001
<b>Note:</b> Requires an optional SCSI controller for support.	
20/40-GB DAT 8 Cassette Autoloader External (Int'l)	166505-B31
<b>Note:</b> Requires an optional SCSI controller for support.	
20/40-GB DAT 8 Cassette Autoloader External (Japan)	166505-291
<b>Note:</b> Requires an optional SCSI controller for support.	
External 20/40GB DAT DDS-4 Tape Drive	157770-001
External 20/40GB DAT DDS-4 Tape Drive (Int'l)	157770-B31
External 20/40GB DAT DDS-4 Tape Drive (Japan)	157770-291
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
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 40/80-GB DLT Drive (Opal)	146197-B21
External 40/80-GB DLT Drive (Opal) (Japan)	146197-291
12-GB DDS-3 DAT Cassette (10 Pack)	295515-B21
20/40-GB DAT 8 Cassette Magazine with Media	171532-B21
DDS-4 Media (10 pack)	152842-001
DAT Cleaning Cassette	242781-001
AIT 35-GB Data Cassette (5 pack)	402371-B21
AIT 50-GB Data Cassette (5 pack)	152841-001
AIT Cleaning Cassette	402374-B21
DLT IV Drive Cartridge (single)	295194-B21
DLT IV Drive Cartridge (7 pack)	295192-B21
DLT Cleaning Cartridge	199704-001

**Note:** Please see the Compaq 20/40-GB DAT DDS-4 8 Cassette Autoloader, Compaq 20/40-GB DAT Drive, Compaq AIT 50-GB Tape Drive, Compaq AIT 35-GB Tape Drive, Compaq 40/80-GB DLT Drive, Compaq 35/70-GB DLT Drive, or the Compaq 20/40-GB DLT 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](http://www.compaq.com/products/quickspecs/North_America/10233_na.html) (North America)

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

## Options

### External Storage

Compaq <i>StorageWorks</i> ™ Enclosure Model 4214R (rack-mountable) (NA)	103381-001
Compaq <i>StorageWorks</i> Enclosure Model 4214R (rack-mountable) (Int'l)	103381-B31
Compaq <i>StorageWorks</i> Enclosure Model 4214R (rack-mountable) (Japan)	103381-291
Compaq <i>StorageWorks</i> Enclosure Model 4254R (rack-mountable) (NA)	138151-001
Compaq <i>StorageWorks</i> Enclosure Model 4254R (rack-mountable) (Int'l)	138151-B31
Compaq <i>StorageWorks</i> Enclosure Model 4254R (rack-mountable) (Japan)	138151-291
Compaq <i>StorageWorks</i> Enclosure Model 4314R (rack-mountable)	190209-001
Compaq <i>StorageWorks</i> Enclosure Model 4314R (rack-mountable) (Int'l)	190209-B31
Compaq <i>StorageWorks</i> Enclosure Model 4314R (rack-mountable) (Japan)	190209-291
Compaq <i>StorageWorks</i> Enclosure Model 4354R (rack-mountable)	190211-001
Compaq <i>StorageWorks</i> Enclosure Model 4354R (rack-mountable) (Int'l)	190211-B31
Compaq <i>StorageWorks</i> Enclosure Model 4354R (rack-mountable) (Japan)	190211-291

**Note:** The Compaq *StorageWorks* Enclosure 4200/4300 Family support the Wide Ultra2/Ultra3 1" Hot Plug Hard Drives.

Rack-Mountable SCSI Storage Expander II (NA)	332607-001
Rack-Mountable SCSI Storage Expander II (Int'l)	332607-B21
Rack-Mountable SCSI Storage Expander II (Japan)	332607-291
Rack-Mountable ProLiant Storage System Model UE (NA)	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 (NA)	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 Models UE and U2 support the Wide-Ultra SCSI-3 Drives.

ProLiant Storage System /U Redundant Power Supply (NA)	224206-001
ProLiant Storage System /U Redundant Power Supply (Int'l)	224214-001
<i>StorageWorks</i> Enclosure 4200 Redundant Power Supply Option	119826-B21
<i>StorageWorks</i> Enclosure 4200 Ultra2 Dual Bus I/O Module Option	119829-B21
<i>StorageWorks</i> Enclosure 4200 Ultra3 Single Bus I/O Module Option	190212-B21
<i>StorageWorks</i> Enclosure 4200 Ultra3 Dual Bus I/O Module Option	190213-B21
<i>StorageWorks</i> Enclosure 4200 Tower to Rack Conversion Kit	150213-B21

### Server Recovery

Rack-Mountable ProLiant Storage System RSO/U (NA)	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.

### Automated DLT Tape Library Solution (Note: Requires an optional SCSI controller for support.)

TL891 DLT library unit, 1 drive Rack, FWD	120876-B21
TL891 DLT library unit, 2 drive Rack, FWD	120876-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 35/70-GB Drive for TL891	120878-B21
MiniLibrary Data Unit	128670-B21
MiniLibrary Expansion Unit	120877-B21
<i>StorageWorks</i> Dual Channel Ultra-Wide Differential Library Host Bus Adapter	157229-B21

**Note:** The *StorageWorks* Dual Channel Ultra-Wide Differential Library Host Bus Adapter is required to support FWD-based tape libraries.

DLT IV Data Cartridges (single pack)	295194-B21
DLT IV Data Cartridges (7 pack)	295192-B21
DLT Cleaning Cartridge	199704-001

## Options

### Automated DLT Tape Library Solution (Note: Requires an optional SCSI controller for support.) (continued)

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 the 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://www.compaq.com/products/quickspecs/North\\_America/10233\\_na.html](http://www.compaq.com/products/quickspecs/North_America/10233_na.html) (North America) [http://www.compaq.com/products/quickspecs/Division/10233\\_div.html](http://www.compaq.com/products/quickspecs/Division/10233_div.html) (Division/World Wide)

### Automated AIT Tape Library Solution (Note: Requires an optional SCSI controller for support.)

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://www.compaq.com/products/quickspecs/North\\_America/10233\\_na.html](http://www.compaq.com/products/quickspecs/North_America/10233_na.html) (North America) [http://www.compaq.com/products/quickspecs/Division/10233\\_div.html](http://www.compaq.com/products/quickspecs/Division/10233_div.html) (Division/World Wide)

### Tape Array Solution (Note: Requires an optional SCSI controller for support.)

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 III Model 40/80-4	161140-001
DLT Tape Array III Model 40/80-4 (Int'l)	161140-B31
DLT Tape Array III Model 40/80-4 (Japan)	161140-291
DLT Tape Array III Model 0	168047-001
DLT Tape Array III Model 0 (Int'l)	168047-B31
DLT Tape Array III Model 0 (Japan)	168047-291
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	242427-001
<b>Note:</b> Available for the DLT Tape Array and DLT Tape Array II only.	
DLT Tape Array III Model 0, LVD Cable Kit	168048-B21
<b>Note:</b> Available for the DLT Tape Array III Model.	

**Note:** Please see the Compaq TA1000 AIT Tape Array, Compaq DLT Tape Array II, or the Compaq DLT Tape Array III QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at: [http://www.compaq.com/products/quickspecs/North\\_America/10233\\_na.html](http://www.compaq.com/products/quickspecs/North_America/10233_na.html) (North America) [http://www.compaq.com/products/quickspecs/Division/10233\\_div.html](http://www.compaq.com/products/quickspecs/Division/10233_div.html) (Division/World Wide)

## Options

### StorageWorks RAID Array 4100

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
64-Bit/66MHz Fibre Channel Host Adapter	120186-B21
64-Bit/66MHz Fibre Channel Host Adapter (Japan)	120186-291
Fibre Channel Host Adapter Redundancy Kit	174681-B21
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 Switch 3-Port Expansion Module	177863-B21
GBIC-SW Connector Kit (two each)	234459-B21
GBIC-LW Connector Kit (two each)	304412-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

### StorageWorks 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-B22
RA8000 FC Dual Controller	400700-B21
Expansion Cabinet 24 slot	380568-B21

**Note:** Please see the Compaq StorageWorks Fibre Channel RAID Array 8000, ESA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at:  
[http://www.compaq.com/products/quickspecs/North\\_America/10418\\_na.html](http://www.compaq.com/products/quickspecs/North_America/10418_na.html) (North America)  
[http://www.compaq.com/products/quickspecs/Division/10418\\_div.html](http://www.compaq.com/products/quickspecs/Division/10418_div.html) (Division/World Wide)

## Options

### StorageWorks Enterprise Storage Array 12000

#### ESA Building Blocks

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 Fibre Channel RAID Array 8000, ESA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at:  
[http://www.compaq.com/products/quickspecs/North\\_America/10418\\_na.html](http://www.compaq.com/products/quickspecs/North_America/10418_na.html) (North America)  
[http://www.compaq.com/products/quickspecs/Division/10418\\_div.html](http://www.compaq.com/products/quickspecs/Division/10418_div.html) (Division/World Wide)

### StorageWorks Modular Array 6000

MA6000D14	187738-B21
MA6000S14	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 at:  
[http://www.compaq.com/products/quickspecs/North\\_America/10418\\_na.html](http://www.compaq.com/products/quickspecs/North_America/10418_na.html) (North America)  
[http://www.compaq.com/products/quickspecs/Division/10418\\_div.html](http://www.compaq.com/products/quickspecs/Division/10418_div.html) (Division/World Wide)

### 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 at:  
[http://www.compaq.com/products/quickspecs/North\\_America/10418\\_na.html](http://www.compaq.com/products/quickspecs/North_America/10418_na.html) (North America)  
[http://www.compaq.com/products/quickspecs/Division/10418\\_div.html](http://www.compaq.com/products/quickspecs/Division/10418_div.html) (Division/World Wide)

### 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

Rack-Mountable UPS R1500 (100-127 VAC)	242704-001
Rack-Mountable UPS R1500h (208-240 VAC) (Int'l)	242704-002
Rack-Mountable UPS R1500j (100-127 VAC) (Japan)	242704-291
Rack-Mountable UPS R3000 (100-127 VAC)	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
Compaq UPS R3000 XR (120V) (NA)	192186-001

## Options

### Uninterruptible Power Systems *(continued)*

Compaq UPS R3000 XR (100V) (Japan)	192186-291
Compaq UPS R3000 XR (208V) (NA)	192186-002
Compaq UPS R3000 XR (208V) (Japan)	192186-292
Compaq UPS R3000 XR (230V) (EURO, IEC-309P)	192186-B32
Compaq UPS R3000 XR (208V) (Int'l - detachable cord)	192186-B31
Rack-Mountable UPS R6000 (208V) (NA)	347207-001
Rack-Mountable UPS R6000 (230V) (Int'l)	347207-B31
Rack-Mountable UPS R6000 (200V) (Japan)	347207-291
Extended Runtime Battery, R3000 XR	192188-B21
<b>Note:</b> Available for the Rack-Mountable UPS R3000 XR Models only.	
Six-Port Card	192185-B21
<b>Note:</b> Available for the Rack-Mountable UPS R3000 XR Models only.	
SNMP/Serial Port Card	192189-B21
<b>Note:</b> Available for the Rack-Mountable UPS R3000 XR Models only.	
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/rackbuilderpro2.html](http://www.compaq.com/products/storageworks/rack_accessories/rackbuilderpro2.html).

### ProLiant DL360 Unique Deployment Options

Vertical-Mount PDU Bracket with High Voltage Cable	166097-B21
<b>Note:</b> In order to deploy a Compaq Power Distribution Unit in the side of a rack cabinet next to the ProLiant DL360 units, you must purchase the Vertical-Mount PDU Bracket with High Voltage Cables (166097-B21) or Vertical-Mount PDU Bracket (191265-B21) depending on your rack configuration. Please see the Compaq Ultra Dense Server Deployment in Compaq Racks whitepaper at <a href="http://www.compaq.com/support/techpubs">www.compaq.com/support/techpubs</a> for more information.	
Vertical-Mount PDU Bracket	191265-B21
<b>Note:</b> In order to deploy a Compaq Power Distribution Unit in the side of a rack cabinet next to the ProLiant DL360 units, you must purchase the Vertical-Mount PDU Bracket with High Voltage Cables (166097-B21) or Vertical-Mount PDU Bracket (191265-B21) depending on your rack configuration. Please see the Compaq Ultra Dense Server Deployment in Compaq Racks whitepaper at <a href="http://www.compaq.com/support/techpubs">www.compaq.com/support/techpubs</a> for more information.	
Desktop/Stackable Chassis Option	174573-B21
Third Party Cabinet Rack Option	174574-B21
Sliding Rails and Cable Management Solution Option	174575-B21
Telco Rack Option	174576-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:** All -B21 are shipped on a standard flat pallet  
 All -B22 are shipped on a shock pallet\*\*  
 All -B23 are shipped in a crate

\*\*Not all Compaq equipment is qualified to be shipped in the Rack 9000 Series



## Options

### Rack Options for Compaq Rack 9000 Series

Baying/Coupling Kit	120669-B21
Rack 9142 Side Panel	120670-B21
Rack 9136 Side Panel	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
9142 Extension Kit	120679-B21
Grounding Rack Option Kit	120682-B21
Cable Management D-Ring Kit	168233-B21
Rack Blanking Panel (1U)	189453-B21
Rack Blanking Panel (2U)	189453-B22
Rack Blanking Panel (3U)	189453-B23
Rack Blanking Panel (4U)	189453-B24
Rack Blanking Panel (5U)	189453-B25

### Rack Options for Compaq Rack 9000 Series

Sliding Shelf Kit	332564-B21
Monitor Utility Shelf	303606-B21
Rack Blanking Panel Kit for Rack 7000 series (Beach Gray) (U.S.)	169940-001
Rack Blanking Panel Kit for Rack 9000 series (Opal) (U.S.)	169940-B21
Compaq Networking Cable Management Kit	292407-B21
Compaq Networking Recessed Rail Management Kit	292406-B21
Compaq Power Distribution Unit-24A Low Voltage PDU	295363-001
Compaq Power Distribution Unit-24A Low Voltage PDU (Japan)	295363-291
Compaq Power Distribution Unit-16A High Voltage PDU (cord attached) (US)	295363-002
Compaq Power Distribution Unit-16A High Voltage, 16A (detachable cord) (NA, Int'l)	295363-B21
Compaq Power Distribution Unit-24A High Voltage PDUh-NDC (non-detached cord) (Int'l)	295363-B32
Compaq Power Distribution Unit-24A High Voltage (NA only)	295363-003
Compaq Dual Input Power Distribution Unit-24A High Voltage (NA only)	191186-001
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
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

## Options

### Rack Options for Compaq Rack 9000 Series (continued)

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

### Service Upgrades (CarePacs)

#### Hardware Services 4-Hour On-site Service

5 x 9 Coverage, 3 Years (2-5-2 Part Number for US)	FM-EL4HR-36
5 x 9 Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-EL4HR-36
5 x 9 Coverage, 3 Years (6-3 Part Number for US)	162676-002
5 x 9 Coverage, 3 Years (6-3 Part Number for Canada)	162676-122
5 x 9 Coverage, 3 Years (6-3 Part Number for EMEA)	324416-002
7 x 24 Coverage, 3 Years (2-5-2 Part Number for US)	FM-EL724-36
7 x 24 Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-EL724-36
7 x 24 Coverage, 3 Years (6-3 Part Number for US)	162675-002
7 x 24 Coverage, 3 Years (6-3 Part Number for Canada)	162675-122
7 x 24 Coverage, 3 Years (6-3 Part Number for EMEA)	376910-022

#### Installation & Start-up Services

Hardware Installation (2-5-2 Part Number for US)	FM-ELINS-IN
Hardware Installation (2-5-2 Part Number for Canada)	FP-ELINS-IN
Hardware Installation (6-3 Part Number for US)	401791-002
Hardware Installation (6-3 Part Number for Canada)	401791-122
Hardware Installation (EMEA)	Quote
O/S & Hardware Installation (2-5-2 Part Number for US) (Hardware installation plus two days O/S start-up activity (installation, configuration, network access & orientation))	FP-CXHSI-01
O/S & Hardware Installation (6-3 Part Number for US) (Hardware installation plus two days O/S start-up activity (installation, configuration, network access & orientation))	160555-002

#### 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-CX101-36
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-CZ101-36
5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for US)	155323-002
5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for Canada)	155323-122
5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for EMEA)	179834-022

#### 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-CX201-36
7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (6-3 Part Number for US)	155327-002
7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (6-3 Part Number for EMEA)	179839-022



## Options

### Service Upgrades (CarePacs) (continued)

#### **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-CX301-36
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-CZ301-36
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)	155331-002
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)	155331-122

#### **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-CX501-36
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-CZ501-36
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)	155335-002
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)	155335-122

#### **Business Solutions Priority Service Plan – Priority Executive Premier Level**

7 x 24 2-hour H/W, 7 x 24 30-minutes O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for US)	FP-CX701-36
7 x 24 2-hour H/W, 7 x 24 30-minutes O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for Canada)	FP-CZ701-36
7 x 24 2-hour H/W, 7 x 24 30-minutes O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for US)	155339-002
7 x 24 2-hour H/W, 7 x 24 30-minutes O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for Canada)	155339-122

**Note:** For more information, customer/resellers can contact [www.Compaq.com/services](http://www.Compaq.com/services).

## Memory

### Compaq ProLiant DL360 All Models

#### STANDARD MEMORY

128-MB PC133 MHz Registered ECC SDRAM DIMM installed (1 x 128-MB SDRAM DIMM)

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

#### STANDARD MEMORY PLUS

##### OPTIONAL MEMORY

Up to 3200-MB memory is available with the optional installation of PC133 MHz Registered ECC SDRAM DIMM memory kits.

Up To	Slot			
	1	2	3	4
3200 MB	128 MB	1024 MB	1024 MB	1024 MB

#### STANDARD MEMORY REPLACED

##### WITH OPTIONAL MEMORY

Up to 4096-MB of memory is available with the removal of the standard 128-MB of memory and the optional installation of PC133 MHz Registered ECC SDRAM DIMM memory kits.

Up To	Slot			
	1	2	3	4
4096 MB	1024 MB	1024 MB	1024 MB	1024 MB

**Note:** Chart does not represent all possible configurations.

Following are memory options available from Compaq:

- 1024-MB PC133 MHz Registered ECC SDRAM DIMM Memory Option Kit 128280-B21
- 512-MB PC133 MHz Registered ECC SDRAM DIMM Memory Option Kit 128279-B21
- 256-MB PC133 MHz Registered ECC SDRAM DIMM Memory Option Kit 128278-B21
- 128-MB PC133 MHz Registered ECC SDRAM DIMM Memory Option Kit 128277-B21
- 64-MB PC133 MHz Registered ECC SDRAM DIMM Memory Option Kit 128276-B21

## Storage

### DRIVE SUPPORT



- 0, 1 - 2 x 1 inch Wide Ultra2/Ultra3 SCSI Hot Pluggable Hard Drive Bays
- A - Low-profile High Speed IDE CD-ROM
- B - 3.5 inch Diskette Drive

	Quantity Supported	Position Supported	Controller
<b>Removable Media</b>			
1.44-MB Diskette Drive	Up to 1	B	Integrated
Low-profile IDE CD-ROM Drive	Up to 1	A	Integrated IDE
<b>Hard Drives</b>			
<i>Wide Ultra2 Hot Pluggable Drives</i>			
<b>1-inch</b>	Up to 2	0-1	Integrated Smart Array Controller
18.2-GB			Smart Array 4200 Controller (requires the purchase of the Internal Array Controller Cabling Option Kit PN 174571-B21)
9.1-GB			Smart Array 5300 Controller (requires the purchase of the Internal Array Controller Cabling Option Kit PN 174571-B21)
<i>Wide Ultra3 Hot Pluggable Drives</i>			
<b>1-inch</b>	Up to 2	0-1	Integrated Smart Array Controller
36.4-GB 10,000 rpm			Smart Array 4200 Controller (requires the purchase of the Internal Array Controller Cabling Option Kit PN 174571-B21)
18.2-GB 10,000 rpm			Smart Array 5300 Controller (requires the purchase of the Internal Array Controller Cabling Option Kit PN 174571-B21)
9.1-GB 10,000 rpm			
18.2-GB 15,000 rpm			
9.1-GB 15,000 rpm			
<b>External Storage</b>			
StorageWorks Enclosure 4200/4300 Family (supports Ultra2/Ultra3 drives only)	Up to 8	External	Smart Array 431 Controller Smart Array 3200 Controller Smart Array 4200 Controller Smart Array 5300 Controller 64-Bit/66MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter
ProLiant Storage System Model UE ProLiant Storage System Model U2 (supports Wide-Ultra drives only)	Up to 8	External	Smart Array 3200 Controller Smart Array 4200 Controller Smart Array 5300 Controller 64-Bit/66MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter
SCSI Storage Expander II	Up to 3	External	Smart Array 3200 Controller Smart Array 4200 Controller Smart Array 5300 Controller 64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66MHz Single Channel Wide Ultra3 SCSI Adapter
StorageWorks Raid Array 4100 Kit	Up to 11	External	Fibre Channel Host Adapter

#### Maximum Storage Capacity (Ultra2 SCSI Attached)

Internal: 72.8 GB (2 x 36.4 GB 1")  
 External: 3.494 TB (8 x ( 12 x 36.4-GB hard drives))  
 Total: 3.567 TB

#### Maximum Storage Capacity (StorageWorks Enclosure 4200 SCSI Attached)

Internal: 72.8 GB (2 x 36.4 GB 1")  
 External: 4.076 TB (8 x ( 14 x 36.4-GB 1" Wide Ultra2/Ultra3))  
 Total: 4.149 TB

#### Maximum Storage Capacity (External RAID Array 4100 Attached)

Internal: 72.8 GB (2 x 36.4 GB 1")  
 External: 4.804 TB (11 x ( 12 x 36.4-GB hard drives))  
 Total: 4.877 TB

## Storage

### DRIVE SUPPORT *(continued)*

	Quantity Supported	Position Supported	Controller
<b>Tape Drives (EXTERNAL only supported)</b>			
<b>Note:</b> 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: <a href="http://www.compaq.com/products/quickspecs/North_America/10233_na.html">http://www.compaq.com/products/quickspecs/North_America/10233_na.html</a> (North America) <a href="http://www.compaq.com/products/quickspecs/Division/10233_div.html">http://www.compaq.com/products/quickspecs/Division/10233_div.html</a> (Division/World Wide)			
20/40-GB DAT 8 Cassette Autoloader	Up to 4	External	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 3	External	64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66MHz Single Channel Wide Ultra3 SCSI Adapter
AIT 35GB Tape Drive AIT 50GB Tape Drive	Up to 3 (for AIT 35 GB) Up to 2 (for AIT 50 GB)	External	64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66MHz Single Channel Wide Ultra3 SCSI Adapter
External 40/80-GB DLT External 35/70-GB DLT External 20/40-GB DLT	Up to 3	External	Integrated Smart Array Controller Compaq Dual Channel 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
TA1000 AIT Tape Array	Up to 1	External	Compaq Wide-Ultra SCSI-3 Adapter 64-Bit Dual Channel Wide Ultra2 SCSI Adapter 64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter
SSL2020 AIT Mini-Library	Up to 5	External	64-Bit Dual Channel Wide Ultra2 SCSI Adapter 64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter
DLT Tape Array Model 0 DLT Tape Array II Model 35/70	1 to 4 (no more than 2 drives per bus if performance is an issue)	External	Compaq Dual Channel Wide-Ultra SCSI-3 Adapter Compaq Wide-Ultra SCSI-3 Adapter
TL891 DLT Library (1 – 2 Drive) TL881 DLT Library (1 – 2 Drive)	2 drives per SCSI channel	External	StorageWorks Dual Channel Ultra-Wide Differential Library HBA

## Technical Specifications

### System Unit

<b>Dimensions (HxWxD)</b>	1.65 x 16.75 x 25 in. (4.19 x 42.55 x 63.5 cm)	
<b>Weight</b>		
No hard drives installed, one power supply	26 lbs. (11.81 Kg)	
Hard drives installed, one power supply	28.6 lbs. (13 Kg)	
<b>Input Requirements</b>		
Range Line Voltage	100-240 VAC	
Nominal Line Voltage	100 to 120 VAC/220 to 240 VAC	
Rated Input Current	2.66A (110V) to 1.33A (220V)	
Rated Input Frequency	50 to 60 Hz	
Rated Input Power	292 W	
	<i>(Note: 292W of Rated Input Power is for the Maximum Peak Output Power of 190W)</i>	
<b>BTU Rating</b>	996 BTUs/hr	
	<i>(Note: The BTU Rating listed is for the Rated Input Power of 292W)</i>	
<b>Power Supply Output Power</b>		
Steady State Power	170 W	
	<i>(Note: The Steady State Power of 170W is when the ProLiant DL360 is fully loaded with 2 x 800 MHz processors, 4 x 1024MB DIMMs, 2 x 10,000 rpm drives, a Remote Insight Lights-Out Edition and a Smart Array 4200 Controller.)</i>	
Maximum Peak Power	190 W	
<b>Temperature Range</b>		
Operating	50° to 95°F/10° to 35°C	
Shipping	-22° to 122°F/-30° to 50°C	
<b>Relative Humidity (non-condensing)</b>		
Operating	8% to 90%	
Non-operating	5% to 95%	
<b>Maximum Wet Bulb Temperature</b>	101.7°F/38.7°C	
<b>Acoustic Noise</b>	<b>L<sub>wAd</sub> (BELS)</b>	<b>L<sub>pAm</sub> (dBA)</b>
Idle (Fixed Disk Drives Spinning)	6.5	51
Operating (Random Seeks to Fixed Disks)	6.6	52

### 1.44-MB Diskette Drive

<b>Diskette Size</b>	3.5 in
<b>LED Indicators (front panel)</b>	Green
<b>Read/Write Capacity per Diskette (high/low density)</b>	1.44 MB/720 KB
<b>Drive Supported</b>	One
<b>Drive Height</b>	11mm
<b>Drive Rotation</b>	300 rpm
<b>Transfer Rate (high/low)</b>	500/250 Kb/s
<b>Bytes/Sector</b>	512
<b>Sectors/Track (high/low)</b>	18/9
<b>Tracks/Side (high/low)</b>	80/80
<b>Access Times</b>	
Track-to-Track (high/low)	3/6 ms
Average (high/low)	94/169 ms
Settling Time	15 ms
Latency Average	100 ms
<b>Cylinders (high/low)</b>	80/80
<b>Read/Write Heads</b>	Two

# QUICK SPECS

Compaq ProLiant DL360

## Technical Specifications

Hot Plug  
Wide Ultra2 SCSI  
Hard Drives

18.2 GB	<b>Capacity</b>	18209.3 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	0.8 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	7.0 ms
	<b>Interface</b>	Wide Ultra2 SCSI	Full-Stroke	15 ms
	<b>Transfer Rate</b>		Rotational Speed	7200 rpm
	Synchronous (Maximum)	80 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	35,565,080
			<b>Operating Temperature</b> 50° to 95°F/10° to 35°C	
9.1 GB	<b>Capacity</b>	9100.0 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	0.8 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	7.0 ms
	<b>Interface</b>	Wide Ultra2 SCSI	Full-Stroke	15 ms
	<b>Transfer Rate</b>		Rotational Speed	7200 rpm
	Synchronous (Maximum)	80 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	17,773,524
			<b>Operating Temperature</b> 50° to 95°F/10° to 35°C	

# QUICK SPECS

Compaq ProLiant DL360

## Technical Specifications

Hot Plug  
Wide Ultra3 SCSI  
Hard Drives

36.4 GB 10K	<b>Capacity</b>	36400 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	0.8 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	5.2 ms
	<b>Interface</b>	Wide Ultra3 SCSI	Full-Stroke	12 ms
	<b>Transfer Rate</b>		Rotational Speed	10,000 rpm
	Synchronous (Maximum)	160 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	71,132,000
			<b>Operating Temperature</b> 50° to 95°F/10° to 35°C	
	18.2 GB 10K	<b>Capacity</b>	18209.3 MB	<b>Seek Time</b> (typical reads, including settling)
<b>Height</b>		1 in/25.4 mm	Single Track	0.8 ms
<b>Width</b>		3.5 in/88.9 mm	Average	5.2 ms
<b>Interface</b>		Wide Ultra3 SCSI	Full-Stroke	12 ms
<b>Transfer Rate</b>			Rotational Speed	10,000 rpm
Synchronous (Maximum)		160 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	35,565,080
			<b>Operating Temperature</b> 50° to 95°F/10° to 35°C	
9.1 GB 10K		<b>Capacity</b>	9100.0 MB	<b>Seek Time</b> (typical reads, including settling)
	<b>Height</b>	1 in/25.4 mm	Single Track	0.8 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	5.0 ms
	<b>Interface</b>	Wide Ultra3 SCSI	Full-Stroke	12 ms
	<b>Transfer Rate</b>		Rotational Speed	10,000 rpm
	Synchronous (Maximum)	160 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	17,773,524
			<b>Operating Temperature</b> 50° to 95°F/10° to 35°C	
	18.2 GB 15K	<b>Capacity</b>	18209.3 MB	<b>Seek Time</b> (typical reads, including settling)
<b>Height</b>		1 in/25.4 mm	Single Track	0.8 ms
<b>Width</b>		3.5 in/88.9 mm	Average	5.0 ms
<b>Interface</b>		Wide Ultra3 SCSI	Full-Stroke	12 ms
<b>Transfer Rate</b>			Rotational Speed	15,000 rpm
Synchronous (Maximum)		160 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	35,565,080
			<b>Operating Temperature</b> 50° to 95°F/10° to 35°C	

## Technical Specifications

Hot Plug  
Wide Ultra3 SCSI  
Hard Drives *(continued)*

9.1 GB 15K	<b>Capacity</b>	9100.0 MB	<b>Seek Time</b> (typical reads, including settling)	
	<b>Height</b>	1 in/25.4 mm	Single Track	0.8 ms
	<b>Width</b>	3.5 in/88.9 mm	Average	5.0 ms
	<b>Interface</b>	Wide Ultra3 SCSI	Full-Stroke	12 ms
	<b>Transfer Rate</b>		Rotational Speed	15,000 rpm
	Synchronous (Maximum)	160 MB/s	<b>Physical Configuration</b>	
			Bytes/Sector	512
			Logical Blocks	17,773,524
			<b>Operating Temperature</b>	
			50° to 95°F/10° to 35°C	



## Technical Specifications

### Low-Profile 24X Max IDE CD-ROM Drive

<b>Disk</b>	
Applicable Disk	CD-DA, CD-ROM (Mode 1 and 2) CD-XA, CD-I (Mode 2, Form 1 and 2) CD-I Ready, CD Extra, Video CD, CD-Bridge Photo CD (Single and Multi-session) CD-WO
Capacity	550 MB (Mode 1, 12 cm) 640 MB (Mode 2, 12 cm)
Diameter	4.7 in, 3.15 in/12 cm, 8 cm
Rotational Speed	4200 rpm maximum
Center Hole	0.6 in/15 mm diameter
Thickness	1.2 mm
Track Pitch	1.6 $\mu$ m
<b>Block Size</b>	
Mode 0	2,368, 2,352 bytes
Mode 1	2,352, 2,340, 2,336, 2,048 bytes
Mode 2	2,352, 2,340, 2,336, 2,048 bytes
<b>Interface</b>	
IDE (ATAPI)	
<b>Access Times (typical)</b>	
Random	< 140 ms
Full-Stroke	< 300 ms
<b>Data Transfer Rate</b>	
Sustained	150 KB/s (sustained 1X)
Burst	2100 to 4800 KB/s
<b>Cache Buffer</b>	
128 KB	
<b>Start-up Time (typical)</b>	
< 10 seconds	
<b>Stop Time</b>	
< 5 seconds	
<b>Operating Conditions</b>	
Temperature	41° to 120°F/5° to 55°C
Humidity	10% to 80%
<b>Dimensions</b>	
(HxWxD, maximum)	0.51 x 5.24 x 5.2 in/12.7 x 131 x 130 mm
Weight	< 340 g

# QUICK SPECS

Compaq *ProLiant* DL360

## Technical Specifications

### Integrated Smart Array Controller

Data Compatible with all Smart Array Controllers	Yes
Instant Upgrades to other Smart Array Controllers	Yes
Consistent Software Manageability Tools	Yes
PCI Bus	32-bit, 33 MHz (integrated on server board)
PCI Peak Data Transfer Rate	133 MB/s
SCSI Protocols Supported	Ultra2, Wide-Ultra
SCSI Peak Data Transfer Rate	80 MB/s
<b>Note:</b> For ProLiant servers having TWO internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
Channels	1
<b>Note:</b> For ProLiant servers having TWO internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
SCSI Ports (external/internal)	0/1
<b>Note:</b> For ProLiant servers having TWO internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
Drives Supported (maximum)	Maximum = total number of internal drives
<b>Note:</b> Maximum is the total number of internal drives on each specific ProLiant server.	
Cache	8-MB read only
RAID Support	0, 1, 0+1, 5
<b>Note:</b> RAID 5 is not supported on the Compaq ProLiant DL360. A minimum of three drives is required for RAID 5 and the Compaq ProLiant DL360 only supports up to two.	
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

### Two Compaq NC3163 Fast Ethernet NIC Embedded 10/100 WOL (Wake On LAN)

Network Interface	10Base-T/100Base-TX
Compatibility	IEEE 802.3/802.3u compliant
Data Transfer Method	32-bit bus-master PCI
Network Transfer Rate	
10Base-T (Half-Duplex)	10 Mb/s
10Base-T (Full-Duplex)	20 Mb/s
100Base-TX (Half-Duplex)	100 Mb/s
100Base-TX (Full-Duplex)	200 Mb/s
Connector	RJ-45
Cable Support	
10Base-T	Categories 3, 4 or 5 UTP; up to 328 feet (100 meters)
100Base-TX	Category 5 UTP; up to 328 feet (100 meters)

## *Technical Specifications*

### Video Controller

<b>Controller Chip</b>	ATI RAGE IIC PCI
<b>Video DRAM</b>	4-MB Video SGRAM
<b>Data Transfer Method</b>	32-bit PCI
<b>Support Resolution</b>	Supported Color Depths:
640 x 480	16.7M, 64K, 256, 16
800 x 600	16.7M, 64K, 256, 16
1024 x 768	16.7M, 64K, 256, 16
1152 x 864	16.7M, 64K, 256, 16
1280 x 1024	16.7M, 64K, 256, 16
1600 x 1200	64K, 256, 16
<b>Connector</b>	VGA

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## *Technical Specifications*

### Smart Array 5300 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	640 MB/s total, 160 MB/s per channel
Channels	2, 4
SCSI Ports (external/internal)	2 channel model: 2/2 4 channel model: 4/2
Drives Supported (maximum)	56
<b>Note:</b> Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family. (14 hard disk drive enclosure)	
Cache	128, 64 or 32 MB battery backed read-write
RAID Support	0, 1, 0+1, 5, Advanced Data Guarding
<b>Note:</b> RAID ADG will be available as of Q4 2000. For customers who have purchased the SA-5304/128 a quick firmware upgrades to enable the technology will be available from <a href="http://www.compaq.com/smartarray">www.compaq.com/smartarray</a> . The 128-MB cache module with RAID ADG will also be available as of Q4 2000.	
<b>Note:</b> RAID Support: Advanced Data Guarding (RAID ADG) is available with 128-MB versions of the SA-5300 only.	
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

## Technical Specifications

### Smart Array 4200 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, 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
<b>Note:</b> 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 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

## *Technical Specifications*

**Smart Array 3200  
Controller**

<b>Data Compatible with all Smart Array Controllers</b>	Yes
<b>Instant Upgrades to other Smart Array Controllers</b>	Yes
<b>Consistent Software Manageability Tools</b>	Yes
<b>PCI Bus</b>	32-bit, 33 MHz
<b>PCI Peak Data Transfer Rate</b>	133 MB/s
<b>SCSI Protocols Supported</b>	Ultra2, Wide-Ultra
<b>SCSI Peak Data Transfer Rate</b>	160 MB/s total, 80 MB/s per channel
<b>Channels</b>	2
<b>SCSI Ports (external/internal)</b>	2/2
<b>Drives Supported (maximum)</b>	28
<b>Note:</b> Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure).	
<b>Cache</b>	64-MB battery backed read-write
<b>RAID Support</b>	0, 1, 0+1, 4, 5
<b>Logical Drives (maximum)</b>	32
<b>Online Configuration</b>	Yes
<b>Online Capacity Expansion</b>	Yes
<b>Logical Drive Capacity Extension</b>	Yes
<b>Online Stripe Size Migration</b>	Yes
<b>Online RAID Level Migration</b>	Yes
<b>Online Spare Support</b>	Yes
<b>Automatic Data Recovery</b>	Yes
<b>Drive Roaming</b>	Yes
<b>Redundant Controllers</b>	No

## Technical Specifications

### 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
<b>Note:</b> 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

## Technical Specifications

64-bit / 66 MHz Single Channel Wide Ultra3 SCSI Adapter

<b>Drives Supported</b>	Up to 14 SCSI devices
<b>Storage Capacity</b>	254.8 GB
<b>Data Transfer Method</b>	64-bit / 66 MHz PCI bus-master (The Compaq ProLiant DL360 PCI bus operates at 33MHz)
<b>Maximum SCSI Channel Transfer Rate</b>	160 MB/s per channel
<b>Maximum Transfer Rate per PCI Bus (peak)</b>	532 MB/s per channel (The Compaq ProLiant DL380 Maximum Transfer Rate per PCI Bus will be 133 MB/s or 267MB/s depending on slot – 32-Bit/33MHz PCI or 64-Bit/33MHz PCI)
<b>SCSI Protocols</b>	Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast SCSI-2
<b>Electrical Protocol</b>	Low Voltage Differential (LVD)
<b>SCSI Termination</b>	Active Termination
<b>External SCSI Connectors</b>	One 68-Pin Wide Ultra SCSI-3 connector
<b>Internal SCSI Connectors</b>	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

<b>Drives Supported</b>	Up to 28 SCSI devices (14 per channel)
<b>Storage Capacity</b>	509.6 GB
<b>Data Transfer Method</b>	64-bit / 66 MHz PCI bus-master (The Compaq ProLiant DL360 PCI bus operates at 33MHz)
<b>Maximum SCSI Channel Transfer Rate</b>	160 MB/s per channel
<b>Maximum Transfer Rate per PCI Bus (peak)</b>	532 MB/s per channel (The Compaq ProLiant DL380 Maximum Transfer Rate per PCI Bus will be 133 MB/s or 267 MB/s depending on slot – 32-Bit/33MHz PCI or 64-Bit/33MHz PCI)
<b>SCSI Protocols</b>	Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast SCSI-2
<b>Electrical Protocol</b>	Low Voltage Differential (LVD)
<b>SCSI Termination</b>	Active Termination
<b>External SCSI Connectors</b>	Two 68-Pin VHDCI connectors
<b>Internal SCSI Connectors</b>	Two 68-Pin Wide Ultra SCSI-3 connectors One 50-Pin Narrow Ultra connector



# QUICK SPECS

Compaq ProLiant DL360

## Technical Specifications

Compaq Rack 9142 (42U)  
(optional)

Dimensions	Total Cabinet	Shipping	Color
Height	78.7 in/2,000 mm	83.38 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	Color
Height	68.6 in/1,742 mm	75.25 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	Color
Height	43 in/1,092 mm	52.25 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	