

# QUICKSPECS

## MODELS

**ProLiant Storage System**  
Model UE – Rack-mountable  
348700-001

**ProLiant Storage System**  
Model U2 – Rack-mountable  
304100-B22

**ProLiant Storage System**  
Model UE - Tower  
348710-002

**ProLiant Storage System**  
Model U2 - Tower  
304110-B22

External storage system delivering enhanced availability and serviceability features with Wide-Ultra SCSI-3 data transfer rates (40 MB/s). Single and dual bus external storage systems supporting 12 (1") high or 8 (1.6") high hot pluggable hard drives.

### Performance and Storage Capacity

The Compaq ProLiant Storage System/U family of external storage enclosures delivers high levels of performance and storage capacity. These enclosures support Wide-Ultra SCSI-3 data transfer rates (40 MB/s) and deliver industry leading spindle count per enclosure, 12 (1-inch) hot pluggable hard drives. Two models are part of the ProLiant Storage System/U family, the Model UE and the Model U2.

*Model UE:* Supports up to 12 (1-inch) or 8 (1.6-inch) hot pluggable Wide-Ultra SCSI-3 hard drives on a single SCSI bus (also supports Fast-Wide SCSI-2 and Fast SCSI-2 drives). The ProLiant Storage System Model UE can support up to 291.2 GB of storage, using 36.4 GB (1.6-inch) disk drives.

*Model U2:* Distributes drives on two independent SCSI Busses supporting up to 12 (1-inch) or 8 (1.6-inch) hot pluggable Wide-Ultra SCSI-3 hard drives (also supports Fast-Wide SCSI-2 or Fast SCSI-2 drives). The Model U2 supports up to a total of 291.2 GB of storage, using 36.4 GB (1.6-inch) disk drives, on two SCSI buses.

### Hot Pluggable

Hot Pluggable technology is used for drives, power supplies and fans. Hot Pluggable components can be replaced without powering down the storage system. This feature significantly enhances storage system availability.

### Improved Availability and Serviceability

Storage system units include hot pluggable, redundant cooling fans and support for an optional redundant, hot pluggable power supply.

### Auto SCSI ID Selection

SCSI ID is automatically set when a drive is inserted into a drive bay.

### LED indicators

Front panel LEDs indicate drive activity, when a drive requires service, and when power is on or off, giving a quick visual assessment of overall system storage status. LED status and fault indicators for the fans and power supplies are located in the back of the enclosure.

### Rack Density

The rack-mountable ProLiant Storage System /U has a 4U height, providing 25 percent greater storage density than the original ProLiant Storage System Rack model.

### Internal Duplexing

Allows two SCSI channels to access a single ProLiant Storage System Model U2

### Fault Tolerance

Supports RAID fault tolerance (RAID 0, 1, 4, 5) when used with any one of the Compaq SMART-2 or Smart Array Family of PCI Array Controllers

### Manageability

Numerous drive fault-prevention features are supported when used with Compaq Insight Manager (Model U2 - v3.20 or later and Model UE - v4.20 or later) and the Compaq SMART-2 or Smart Array Family of PCI Array Controllers<sup>1</sup> including:

*Storage Parameter Tracking:* Used together, the Compaq Insight Manager (Model U2 -v3.20 or later and Model UE - v4.20 or later) and the SMART-2 or Smart Array Family of PCI Array Controllers<sup>1</sup> predict drive failures and allow Pre-Failure replacement, notify administrator of a drive failure, and gather information that can be used to manage the disk subsystem.

*Thermal Tracking:* Monitors internal temperature and fan status; alerts administrator when a factory preset warning temperature is exceeded or a fan fails during operation

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## Compatibility and Integration Testing

Intensive compatibility and performance testing with Compaq ProLiant and Prosignia servers ensures the highest level of integration available in the industry on a Compaq server.

## Option Kit Contents

*Tower Models:* Storage system, warranty card, AC power cord, user guide, support software, 6-ft Fast-Wide SCSI-2 cable (2 cables supplied w/ Model U2) (for external use with Wide-Ultra SCSI-3), 6 ft, 68-Pin to VHDCI cable (2 cables supplied w/Model U2) and Internal Wide-Ultra SCSI cable.

*Rack Models:* Storage system, warranty card, mounting hardware, AC power cord, user guide, support software CD, 12-ft, 68-Pin Fast-Wide SCSI-2 cable (2 cables supplied w/ Model U2) (for external use with Wide-Ultra SCSI-3), 12-ft, 68-Pin to VHDCI cable (2 cables supplied w/ Model U2) and Internal Wide-Ultra SCSI cable.

## SPECIFICATIONS

<b>Warranty</b>	Three-year <sup>2</sup> , on-site limited warranty
<b>Protocol Support</b>	Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast-SCSI-2
<b>O/S Support</b>	NetWare Windows NT SCO UNIX OS/2 Banyan VINES DOS/Windows
<b>Dimensions (HxWxD)</b>	
Tower	21 x 10.9 x 22.7 in/51 x 27.8 x 57.8 cm
Rack	6.9 x 19 x 22.9 in/17.63 x 48.26 x 58.45 cm
<b>Weight</b>	
Tower	56.8 lbs/25.7 kg
Rack	40.4 lbs/18.3 kg
Redundant Power Supply	7.3 lbs/3.3 kg
<b>LED Indicators (On Front Panel)</b>	Power LED Service required LED
<b>Drive LED Indicators (On Drive Trays)</b>	Online LED (left) Drive Access LED (center) Drive Failure LED (right)
<b>Enclosure LED Indicators (back of unit)</b>	Fan module (fault) Power supplies (online and fault status)
<b>Input Requirements</b>	
Nominal Line Voltage	110 to 120 VAC
Range Line Voltage	90 to 264 VAC
Line Frequency	47 to 63 Hz
Typical Input Current	2.5A at 120 VAC
<b>Relative Humidity (non-condensing)</b>	
Operating	20% to 80%
Shipping	5% to 90%
<b>Controllers Supported</b>	Supports Compaq Fast, Fast-Wide SCSI-2, Wide-Ultra SCSI-3, and Ultra2 SCSI adapter and PCI Array controllers. See your server and controller compatibility matrix for details on controller and server compatibility
<b>Power</b>	350 Watts per supply (load)
<b>Temperature Range<sup>3</sup></b>	
Operating	50° to 104° F/10° to 35°C
Shipping	-22° to 140° F/-30° to 60°C

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## RELATED OPTIONS

### Controllers

SMART-2 Array Controller/E <sup>1</sup>	194751-001
SMART-2 Array Controller/P <sup>1</sup>	194753-001
SMART-2SL Array Controller <sup>1</sup>	242776-B21
SMART-2DH Array Controller	295242-B21
Smart Array 221 Controller	388099-B21
Smart Array 3200 Controller	295643-B21
64-Bit Dual Channel Wide Ultra2 SCSI Adapter	348757-B21
Wide-Ultra SCSI-3 Controller <sup>1</sup>	272514-001
Dual Channel Wide-Ultra SCSI-3 Controller <sup>1</sup>	295554-B21
32-bit Fast-Wide SCSI-2/E Controller <sup>1</sup>	142290-001

### Upgrade Kits

ProLiant Storage System/U Wide-Ultra SCSI-3 Upgrade Kit Model U1	304148-B21
ProLiant Storage System/U Wide-Ultra SCSI-3 Upgrade Kit Model U2	304149-B21
ProLiant Storage System /U single bus to dual bus conversion kit	304116-B21
ProLiant Storage System /U dual bus to single bus conversion kit	304115-B21
ProLiant Storage System /U tower to rack mount conversion kit	272891-001
ProLiant Storage System /U Redundant Power Supply Option	224206-001
ProLiant Storage System Model F1 or U1 to Model UE Upgrade Kit	348718-B21
ProLiant Storage System Model F2 or U2 to Model UE Upgrade Kit	348706-B21
ProLiant Storage System Model UE tower to rack conversion kit	348719-B21

### Hard Drives<sup>4</sup>

<i>Hot Plug</i>	
36.4-GB Wide-Ultra SCSI-3 Drive (1.6")	400740-B21
18.2-GB Wide-Ultra SCSI-3 10,000 rpm <sup>5</sup> Drive (1.6")	336358-B21
18.2-GB Wide-Ultra SCSI-3 Drive (1")	400739-B21
9.1-GB Wide-Ultra SCSI-3 10,000 rpm <sup>5</sup> Drive (1")	336357-B21
9.1-GB Wide-Ultra SCSI-3 Drive (1")	313706-B21
4.3-GB Wide-Ultra SCSI-3 Drive(1")	272577-001

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## COMPATIBILITY

Compaq ProLiant Storage System/U family of products are compatible with all current Compaq ProLiant servers. For a complete list of supported Compaq servers and workstations, please refer to the QuickSpecs and/or User Guide of the array controller or SCSI adapter you are planning on using. The list of supported array controllers and SCSI adapters is provided above under "Related Options, Controllers."

<sup>1</sup> Before using Compaq SMART-2 Array or Wide-Ultra SCSI-3 Controllers with the ProLiant Storage System Model UE, you must update your firmware, software, and management agents. The Model UE product kit contains SmartStart Pack (v4.20 or higher) which includes the necessary firmware, software, and management agents updates.

<sup>2</sup> Some restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

<sup>3</sup> Room temperature must not exceed 86°F (30°C) for all 10,000 rpm hard disk drives, rack or tower.

<sup>4</sup> 9.1 GB / 10,000 rpm hard drive in a rack configuration require an Optional Redundant Power Supply fan unit for adequate cooling.

<sup>5</sup> For complete compatibility information, refer to the Compaq SCSI Hard Drive Compatibility Table located at <http://www.compaq.com/products/servers/storage/drives/index.html>. Using Compaq hard drives in unsupported configurations will result in voiding of the warranty and could result in damage to the drive and/or loss of data.