RETIRED: This document has been officially retired, and the base products listed herein are now considered obsolete and are no longer available for sale. Consequently, the information contained within may no longer be current. This document is provided exclusively for reference and informational purposes.

MODELS

Compaq *ProLiant* Storage System RSO/U

ProLiant Storage System RSO/U Rack US
387256-001

ProLiant Storage System RSO/U Tower US
387490-002

External storage system delivers enhanced availability and serviceability features with Wide-Ultra SCSI-3 data transfer rates (40 MB/s). Recovery Server Option board can be installed as the I/O board and all applicable support software, hardware, and documentation. (Replacement for requirements for RSO Kit 304117-B21/291 with *ProLiant* Storage System Model U1 304110-B21 or 304100-B21)

OVERVIEW

Supports up to seven hot-pluggable Wide-Ultra SCSI-3 hard drives on a single SCSI bus (also supports Fast-Wide SCSI-2 and Fast SCSI-2). Single bus models can support up to 254.8 GB of storage, using 36.4 GB disk drives.

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 in the event of pre-failure notification or fault. This feature significantly enhances storage system availability with the improved serviceability.

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 RSO/U has a 4U height.

Fault Tolerance

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

Note: For complete server, PCI array controller and SCSI adapter compatibility information, refer to the high availability section located at http://www.compaq.com/highavailability.

Manageability

Numerous drive fault-prevention features are supported when used with one of the Compaq SMART-2 or Smart Array Controllers and Compaq Insight Manager (v3.20 or later) including:

Storage Parameter Tracking: Used together with SMART-2 or Smart Array Controllers and Compaq Insight Manager predict, ProLiant Storage System RSO/U provides Pre-Failure notification of drive failures and allows for Pre-Failure replacement of drives while gathering useful 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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OVERVIEW *(continued)*

Recovery Server Option

The Recovery Server Option is a high availability solution, which offers several configurations designed for automated failover of servers or controllers to maximize system availability in business-critical environments. It includes the following:

On-Line Recovery Server: Two ProLiant or Prosignia servers (identical configuration not required) are processing independent workloads. In the event of failure, each acts as an unattended backup for the other. Switchable ProLiant Storage Systems are routed to the surviving server, and their critical applications are then made available. O/S Windows NT 3.5x, 4.0. Boot files are resident on the server and the data files are located on one or more ProLiant Storage Systems, each attached to a SMART-2 or Smart Array Controller.

Standby Recovery Server: One ProLiant or ProSignia server stands by as an idle backup for the other identically configured server. All hard drive storage is resident in one or more ProLiant Storage Systems. Both servers are attached to a common set of ProLiant Storage Systems holding a single copy of the operating system and data, the connection is via a SMART or SMART-2 controller in the same slot in each server. If the primary server fails, the recovery server automatically boots and brings users back on-line. O/S Windows NT 3.5x, 4.0, Novell NetWare 3.12, NetWare 4.x, IntranetWare, SCO UnixWare 2.1.x, 7.x, SCO OpenServer 5

On-Line Storage Controller Recovery Option: Two Compaq SMART-2 or Smart Array Controllers are installed in a single Prosignia or ProLiant server connected to a ProLiant Storage System. In the event of one controller failure the other controller takes over automatically without loss of service. O/S Windows NT 4.0

Compatibility and Integration testing

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

Option Kit Contents

Tower Models: Storage system, warranty card, Owner's registration, Important Safety Information Booklet, AC Power Cable, 68-Pin External Fast-Wide SCSI-2 Cables (two 6' cables), Internal Wide-Ultra SCSI Cable, Serial Cable, 68-Pin to VHDCI Cables (two 6' cables), Smart Start and Support (CD), Blank Drive Bezel (2), Storage and Options Documentation Library (CD), Administrator Guide, Knock-out Panel.

Rack Models: Storage System, warranty card, rack mounting hardware, Owner's registration, Important Safety Information Booklet, AC Power Cable, 68-Pin External Fast-Wide SCSI-2 Cables (two 12' cables), Internal Wide-Ultra SCSI Cable, Serial Cable, 68-Pin to VHDCI Cables (two 12' cables), Smart Start and Support (CD), Blank Drive Bezel (2), Storage and Options Documentation Library (CD), Administrator Guide, Knock-out Panel.

Warranty

Three-year, on-site limited warranty. Some restrictions and exclusions apply. Consult the Compaq Customer Support Center for Details

SPECIFICATIONS

Protocol Support	Wide-Ultra SCSI-3	
	Fast-Wide SCSI-2	
	Fast SCSI-2	
O/S Support	Netware	
	Windows NT	
	SCO UNIX	
	OS/2	
	Banyan VINES	
	DOS/Windows	
Dimensions (HxWxD)	Tower	21 x 10.9 x 22.7 in/51x 27.8 x 57.8 cm
	Rack	6.9 x 19x 22.9 in/17.63 x 48.26 x 58.45 cm
Weight	Tower	56.8 lbs/25.7 kg
	Rack	40.4 lbs/18.3 kg
	Redundant Power Supply	7.3 lbs/3.3 kg
LED Indicators (On Front Panel)	Power	LED
	Service	Required LED

SPECIFICATIONS *(continued)*

Drive LED Indicators (On Trays)	Drive Online LED (left)	
	Drive Access LED (center)	
	Drive Failure LED (right)	
Enclosure LED Indicators (back of unit)	Fan module (fault)	
	Power supplies (online and fault status)	
Input Requirements	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
Power	350 Watts per supply (load)	
Temperature Range	Operating	50° to 104°F/10° to 35°C
	Shipping	–22° to 140°F/–30° to 60°C
Relative Humidity (non-condensing)	Operating	20% to 80%
	Shipping	5% to 90%
Controllers Supported	Supports Compaq SMART-2 and Smart Array Controllers, and Wide-Ultra SCSI-3 controller	

See your server and controller compatibility matrix for details on controller and server compatibility.

RELATED OPTIONS

Controllers	SMART-2 Array Controller/E	194751-001
	SMART-2 Array Controller/P	194753-001
	SMART-2SL Array Controller	242776-B21
	Smart Array 221Controller	388099-B21
	SMART-2DH Array Controller	295242-B21
	Smart Array 3200 Controller	295643-B21
	Wide-Ultra SCSI-3 Controller	272514-001
	Dual Channel Wide-Ultra SCSI-3 Controller	295554-B21
	32-Bit Fast-Wide SCSI-2/E Controller	142290-001
Upgrade Kits	ProLiant Storage System RSO/U Tower to Rack conversion kit	104761-B21
	ProLiant Storage System /U Redundant Power Supply Option	224206-001
Hard Drives	***Hot Plug***	
	36.4-GB Wide-Ultra SCSI-3 Drive (1.6″)	400740-B21
	18.2-GB Wide-Ultra SCSI-3 Drive (1″)	400739-B21
	18.2-GB Wide-Ultra SCSI-3 10,000 rpm Drive (1.6″)	336358-B21
	18.2-GB Wide-Ultra SCSI-3 Drive (1.6″)	313756-B21
	9.1-GB Wide-Ultra SCSI-3 10,000 rpm Drive (1″)	336357-B21
	9.1-GB Wide-Ultra SCSI-3 Drive (1″)	313706-B21
	4.3-GB Wide-Ultra SCSI-3 10,000 rpm Drive (1″)	336356-B21
	4.3-GB Wide-Ultra SCSI-3 Drive (1″)	272577-001

Note: 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.