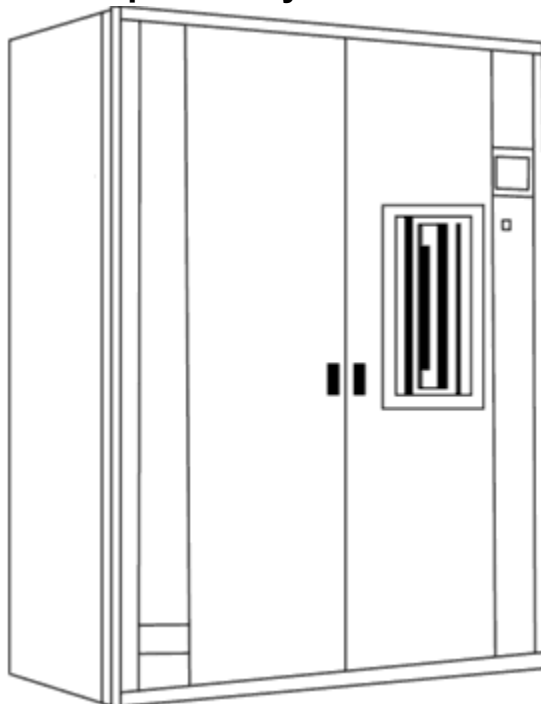


Overview

HP StorageWorks ESL9595SL Tape Library



HP StorageWorks ESL9595SL Tape Library

At A Glance

- The Ultimate in High-Capacity Unattended Backup and Restore:
- The HP StorageWorks ESL9595SL Tape Library provides the ultimate in high-capacity unattended backup and restore for customers with large server pools serviced by network attached storage devices or storage area networks. The consolidation of the enterprise's data into a single shared storage device requires that these devices provide both high capacity and high performance. With the consolidation of backup data into a single device also comes the increased need for redundancy and high availability. The ESL9595SL can provide years of fully automated operation for backup, save and restore, and hierarchical storage management of critical data when coupled with a variety of qualified industry standard backup application solutions. With 400/500/595 slots and up to 16 HP SDLT 110/220GB drives, the ESL9595SL offers up to 65.45TB of native data storage and native transfer rates up to 633.6 GB/hr.

Standard Features

HP StorageWorks ESL9595SL Tape Library Models	The HP StorageWorks ESL9595SL Tape Library comes with up to 16 SDLT 110/220 GB tape drives (number of drives determined by SKU chosen) and has three models with 400, 500 and 595 slots respectively.	
	ESL9595SL, 400 slots, 2 drive library	274672-B22
	ESL9595SL, 400 slots, 16 drive library	274672-B28
	ESL9595SL, 500 slots, 2 drive library	281627-B22
	ESL9595SL, 500 slots, 16 drive library	281627-B28
	ESL9595SL, 595 slots, 2 drive library	281628-B22
	ESL9595SL, 595 slots, 16 drive library	281628-B28

HP StorageWorks ESL9595SL Tape Library Upgrade Kits	ESL9000 field upgrade SDLT 110/220 LVD drive in hot plug canister	234617-B21
	LVD extender kit (Required for HBA to Library SCSI cable lengths exceeding 10 m)	221249-B21
	ESL9000 6 slot magazine	229909-B21
	Network Storage Router e2400, ESL9000 embedded fibre option – Base, 2 FC X 4 LVD SCSI ports (Includes ESL9000 cPCI card cage)	262665-B21
	ESL9000 embedded Fibre option upgrade (no card cage included; SKU 262665-B21 must be installed before this SKU can be installed)	262664-B21
	<p>The ESL9595SL comes as either a 400, 500 or 595 slot library system configured with the associated number of drives, installation and user's manual, one-piece SDLT media, a copy of the HP Storage Management Solutions CD. Customers are required to also purchase the necessary number of host bus adapters, SCSI cables, SDLT media, country specific power cords (pair) and applications software licenses in order to complete the library solution. Due to the size and weight of the unit, a pre- sales site survey is required. The pre-sales site survey document is on http://www.compaq.com/support/techpubs/installation_guides/146587-001.html</p> <p>NOTE: This Web site is available in English only.</p> <p>Please note that the ESL9595SL is three inches wider than the ESL9326. Installation services can be ordered separately on HP Services as part of each library order (requires scheduling with local HP Services provider).</p> <p>NOTE: Does not include special site work, which may be required as a result of not meeting minimum site survey requirements.</p>	

The ESL9000 Enterprise Library Family	The ESL9595SL Tape Library is part of the HP ESL9000 series of tape libraries. With its high availability feature set, the ESL9000 family provides for maximum uptime. Based on PCI backplane architecture, the ESL9000 family also provides a simple upgrade path for future plug-in features.
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High Availability	As data becomes more and more mission critical and downtime becomes more costly to the enterprise, customers are requiring high availability consolidated storage solutions which offer hot swappable components and redundancies of key operating sub-systems (tape drives, controllers, power supplies). With redundant power distribution, power supplies, and cooling fans, coupled with "hot pluggable" drive carriers, power supplies and cooling fan modules, the ESL9595SL offers the best in high availability for continuous operation.
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Standard Features

Hot Pluggable Drives The ESL9595SL uses "hot pluggable" SDLT drive carriers, allowing drives replacement and additional SDLT drives to be added for capacity expansion without interrupting backup and restore functions. These hot pluggable drive trays allow for easy scalability of performance, as well as provide an easy upgrade path towards future SDLT drive technologies.
NOTE: The ESL9595SL accepts only library ready drives specifically modified for use in the ESL9000 library.

Proven Reliability Using SDLT tape drives, and proven library robotics with a rating of **2,000,000** load/unload cycles, the ESL9595SL provides the necessary high reliability.

SDLT Technology Digital Linear Tape uses a proven linear recording technology, a highly accurate tape guide system, and a read after write correction system to provide high-capacity, high reliability data backup and restoration. DLT has fast become the industry standard secondary storage tape format for departmental and enterprise backup. The new generation SDLT tape drive, in addition to enhanced capacity and backup performance provides advantages several new features such as Laser Guided Magnetic Recording (LGMR) technology, Pivoting Optical Servo (POS), Magneto-Resistive Cluster Heads (MRC) , Partial Response Maximum Likelihood (PRML) channel technology and Backward Read Compatible with earlier generation of DLT drives, to be able to read media written in DLT IV format.

Manageability The ESL9595SL library configurations are fully supported through HP Insight Manager, providing information to administrators for both robotic, tape status changes, and fault status of redundant components (high availability fault status requires use of CIM 7.0. HP TSMC (Tape Storage Management Console) software provides diagnostics and easy firmware upgrade capabilities. Other data and automation manageability features, including multi-host direct connectivity, are provided via specific third-party applications software packages.

Warranty One-year warranty, on-site next day response.
 Additional warranty protection can be purchased for all ESL9595SL SDLT library products at the following URL:
<http://h18006.www1.hp.com/products/storageworks/warranty.html>
NOTE: This Web site is available in English only.

Server Support	Enterprise ProLiant Servers	ProLiant DL760 ProLiant 8500 ProLiant ML750 ProLiant 8000 ProLiant DL580G2
	Departmental ProLiant Servers	ProLiant ML570G2 ProLiant DL530G2
	Hewlett-Packard AlphaServer	AlphaServer GS320, GS160, GS80 AlphaServer ES40

SCSI Controllers Support	ProLiant Controllers	64bit/66-MHz PCI Dual Channel Wide Ultra 2 SCSI adapter	129803-B21
	Alpha Controllers	Single Channel Ultra 2 SCSI LVD adapter	3X-KZPCA-AA

Standard Features

Application Support	Under direct SCSI attach only	Storage Library System (SLS) v2.9f for OpenVMS Archive/Backup System (ABS) v4.0 for OpenVMS
	Automation and Network Utilities	Media Robot Utility (MRU) v 1.5 Hewlett-Packard Insight Manager v 7.0 (Included in SmartStart 5.3) Hewlett-Packard TSMC (Tape Storage Management Console)
	Media Partitioning Support	Media partitioning is the capability to create logical pools or partitions in a tape library. The ESL9595SL Enterprise Library supports media partitioning capability to support multiple drives types within a single library when they are configured in separate partitions. Currently this capability supports the DLT 40/80 GB, SDLT 110/220 GB, SDLT 160/320 GB and Ultrium 230 drives (LVD only). Media partitioning capability is available via the ISV backup application software being used to perform backup and restores. The following applications support media partitioning capability

- Computer Associates ARCserve 2000 Build 15 for Windows® NT®/ 2000
- VERITAS Backup Exec 8.6 for Windows NT/2000 Build 8.6.3808 and later
- VERITAS NetBackup 3.4 or 3.4.1 with patch NB_3.4.1_1 for Windows NT/2000 and patch NB_3.4_1 for UNIX®
- Legato NetWorker 6.1 with Legato SmartMedia 1.5 (SM 1.5 releases in Oct)

NOTE: Upgrade of firmware v3.0+ and extension axis kit (249632-B21) on the ESL9595SL is required to support SDLT 110/220, SDLT 160/320, and Ultrium 230 drives. 5 MB memory module (274673-B21) on the ESL9595SL is required to support SDLT 160/320 drives.

Device/ISV/OS ESL	Windows NT 4.0 SP6a	Windows 2000 SP2	Tru64 UNIX 4.0g 5.1a	HP-UX* 11i, 11.0, 10.2	NetWare 5.1 SP3	NetWare 6.0	Linux RH 7.1, 7.2 Linux SuSe 7.0	Sun Solaris 2.6, 2.7, 2.8	AIX 4.3.3
Direct Attach									
VERITAS NetBackup 4.5	X	X							
VERITAS NetBackup 3.4.3	X	X							
Legato NetWorker 6.1.2	X	X					X		
VERITAS Backup Exec 8.6	X	X			X	X			
CA BrightStor ARCserve 2000	X	X							
CA BrightStor ARCserve 7									
HP/EBS SAN									
HP Omniback 4.x	X	X		X	X				X
HP Data Protector	X	X		X	X				X
VERITAS NetBackup 4.5	X	X	X	X				X	X

Standard Features

VERITAS NetBackup 3.4.3	X	X	X	X				X	X
Legato NetWorker 6.1.2	X	X	X	X			X	X	
VERITAS Backup Exec 8.6	X	X			X	X			
VERITAS Backup Exec 9.0					X				
CA BrightStor ARCserve 2000	X	X							
X = supported * HP-UX commands <code>fbackup\frecover</code> and backups launched using HP-UX Site Area Manager are not supported.									

Service and Support, HP Care Pack and Warranty Information

Hewlett-Packard Installation and HP Care Pack Information

Hewlett-Packard Global Services provides a three-year, limited warranty, fully supported by a worldwide network of resellers and service providers toll-free 7 x 24 hardware technical phone support for the duration of the warranty. In addition, available service offerings include a full range of HP Care Pack packaged hardware and software services:

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

Additional Warranty protection and/or Hewlett-Packard Installation packages can be purchased for the ESL9595S2 Library products.

Software Product Services

- Stand-alone telephone support
- Rights to a new license
- Media and documentation updates

Hardware Product Services

- Installation services
- On-site Maintenance (includes warranty support)
- Response time upgrades during the warranty period
- Post-warranty coverage

For additional hardware installation and maintenance information please refer to the URLs listed below:

http://h18005.www1.hp.com/services/carepaq/us/install/cp_storage.html

http://h18005.www1.hp.com/services/carepaq/us/hardware/cp_storage.html

Warranty Upgrade Options

- Response - Upgrade on-site response from next business day to same day 4-hours
- Coverage - Extend hours of coverage from 5 days x 9 hours to 7 days x 24 hours
- Duration - Select duration of coverage for a minimum period of 1year or multiple years

Additional Warranty protection and/or Hewlett-Packard Installation packages can be purchased for the ESL9595 DLT Library products.

Installation Services

24x7, 4-Hour Response On-Site Coverage -1 Year
Hardware Installation

ESL 9000 Enterprise Library 0-8 Drives

163460-002

163463-002

FM-T6INS-IN

ESL 9000 Enterprise Library 9-16 Drives

163470-002

163473-002

FM-T7INS-IN

NOTE: Certain restrictions and exclusions apply. Consult the Hewlett-Packard Customer Support Center for details.

HP Care Pack is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.

HP Care Pack is not available for less than the products warranty duration.

HP Care Pack is available for sale anytime during the warranty period for most products, but the commencement date will be the same as the Warranty Start Date (delivery date to end user customer). Proof of purchase may be required.

HP Care Pack services are prepaid

For additional HP Care Pack (hardware & software) information, as well as orderable part numbers, please refer to the URL listed below:

<http://h18005.www1.hp.com/services/carepaq/index.html>

Service and Support, HP Care Pack and Warranty Information

HP Care Pack Information for EMEA

Additional HP Care Pack services are being developed to cover a broader range of HP StorageWorks hardware and software. Ask your local HP Care Pack Business Manager for the latest details.

HP Care Pack PS Information for EMEA

HP Care Pack Priority Services brings a totally new approach that removes the complexity from evaluating, planning and purchasing services on Hewlett-Packard Alpha and Storage platforms. HP Care Pack Priority Services are easy to purchase and easy to use and cover all external storage products not covered under Server based HP Care Pack services.

Standard Offerings:

- HP Care Pack Priority Services provide an integrated hardware and software support that ensure consistent coverage across storage configurations.
- HP Care Pack Priority Service offers a rapid four-hour response with guaranteed work-through to completion for three years.
- HP Care Pack Priority Services have a standard call window of Monday to Friday 08:00 - 17:00 with uplifts to full 24x7 over three years with four-hour response time and work through to completion.
- HP Care Pack Priority Services also provide software support, with a two-hour response time for telephone access to highly trained support personnel.

For more information on how to order HP Care Pack Priority Services in EMEA please contact you local Certified Integration Partner or Authorized Reseller

- HP Care Pack is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.
- HP Care Pack is not available for less than the product's warranty duration.
- HP Care Pack is available for sale anytime during the warranty period for most products, but the commencement date will be the same as the Warranty Start Date (delivery date to end user customer). Proof of purchase may be required.
- HP Care Pack services are prepaid.

Customized Services are also available. Contact your local Global Services Department.

Related Options

		UPC Code	Part Number
ESL9595SL Library System	ESL9595SL, 400 slots, 2 drive library	613326378465	274672-B22
	ESL9595SL, 400 slots, 16 drive library	613326402221	274672-B28
	ESL9595SL, 500 slots, 2 drive library	613326416433	281627-B22
	ESL9595SL, 500 slots, 16 drive library	613326416440	281627-B28
	ESL9595SL, 595 slots, 2 drive library	613326416464	281628-B22
	ESL9595SL, 595 slots, 16 drive library	613326416457	281628-B28

Supplied with each Library Unit

Library Unit (pre-configured with drives)
 Documentation Kit
 Documentation CD including translations
 Users Guide
 Unpacking and Installation Guide
 Pre-Installation Site Survey
 Diagnostic CD
 Diagnostic Software Guide
 Warranty Card
 Safety Card
 Driver CD
 (1) SDLT 160/320 Media Cartridge
 Bar Code Labels
 Cleaning Labels
 (2) Keys
 SCSI terminators (1 per drive, less those installed)
 Diagnostic cable (for PC attach)

Power Cord (Pair Required)	ESL9000 POWER CORDS 2X, US/CANADA/MEX*	743172935649	146210-001
	ESL9000 POWER CORDS 2X, SE ASIA/INDIA	743172935625	146210-AR1
	ESL9000 POWER CORDS 2X, CENTRAL EUROPE	743172935632	146210-021
	ESL9000 POWER CORDS 2X, AUS/CHINA/NZL	743172935670	146210-011
	ESL9000 POWER CORDS 2X, SWITZERLAND	743172935656	146210-111
	ESL9000 POWER CORDS 2X, UK/HONG KONG	743172935663	146210-031
	ESL9000 POWER CORDS 2X, ITALY	743172935687	146210-061
	ESL9000 POWER CORDS 2X, DENMARK	743172935694	146210-081
	ESL9000 POWER CORDS 2X, JAPAN	743172935700	146210-291

NOTE: Shipped with all units. Order Local power cords.

Related Options

Drive, capacity, and memory upgrade kits	ESL9595 400 to 500 Slot Upgrade*	613326380222	274674-B21
	ESL9595 500 to 595 Slot Upgrade*	613326380239	274674-B22
	ESL9595 400 to 595 Slot Upgrade*	613326408926	274674-B23
	ESL9000 field upgrade SDLT 110/220 LVD drive in hot plug canister	720591776985	234617-B21
	ESL9000 field upgrade SDLT 160/320 LVD drive in hot plug canister		293414-B21
	ESL9000 field upgrade LTO Ultrium 230 LVD drive in hot plug canister	613326562826	301930-B21
	ESL9000 5 MB Memory Module for ESL9198 & ESL9326 libraries, (required to support firmware versions 3.00 and later)	613326380215	274673-B21

NOTE: *Serial number of your existing library is required when ordering these capacity upgrade SKUs, please enter the serial number in the comments section of the purchase order, and inform your Secondary Storage Product Manager.

Media and Bar Code Labels	SDLT Media 5-Pack	720591390273	188527-B21
	SDLT Media 10-Pack	720591390587	188527-B22
	SDLT Media 20-Pack	720591433208	188527-B26

SCSI Cables	Wide/Wide SCSI cable, 5 m	743172633910	328215-001
	Wide/Wide SCSI cable, 10 m	743172633927	328215-002
	Wide/Wide SCSI cable, 15 m (do not order for multiple device per HBA configurations)	743172633934	328215-003
	Wide/Wide SCSI cable, 20 m (do not order for multiple device per HBA configurations)	743172633941	328215-004
	SCSI Cable, VHDCI/Wide, 6 ft	743172660831	341176-B21
	SCSI Cable, VHDCI/Wide, 12 ft	743172660848	341177-B21
	SCSI Cable, VHDCI/Wide, 10 m	720591469108	201160-B21
	SCSI Cable, VHDCI/Wide, 20 m	720591624491	201160-B23

NOTE: Check the cable-adapter matrix for tape libraries on:
<ftp://ftp.compaq.com/pub/products/storageworks/tape-and-optical-storage/adapter-cable-matrix.pdf>

NOTE: This Web site is available in English only.

* Requires 221249-B21 LVD extender kit

Related Options

SCSI Host Bus Adapter/Hewlett-Packard Fibre Channel to SCSI Router (optional)	Host Bus adapter for SCSI connectivity from server to tape library in direct SCSI environment		
	Network Storage Router, Embedded FC Router to connect SCSI Library to Fibre Channel Hub/Switch		
	ProLiant Controllers		
	64-bit/66 MHz PCI dual channel Wide Ultra3 SCSI adapter	743172876379	129803-B21
	Alpha Controllers		
	Single Channel Ultra LVD Controller		3X-KZPCA-AA
	Modular Data Router (required for SAN configuration)		
	Modular Data Router (1 FC x 2 LVD SCSI)	720591260897	163083-B21
	Modular Data Router (2 FC x 4 LVD SCSI)	720591570651	218241-B21
	Network Storage Router (required for SAN configuration)		
Network Storage Router m2402 (2FC X 4 LVD SCSI)		262653-B21	
Network Storage Router e2400, ESL9000 embedded fibre option - Base 2FC x 4 LVD SCSI ports (Includes card cage for installation of embedded router which is required for configuration; Includes two router cards each with 1 FC X 2 LVD SCSI ports, 4 VHDCI-WIDE SCSI cable, user guide CD, and the ESL9000 cPCI card cage;It is recommended that the installation HP Care Pack be ordered with this SKU.	613326254752	262665-B21	
Embedded Data Router, ESL 9000embedded fibre option E2400 - Upgrade 2 FC X 4 LVD SCSI ports (Includes: two 1FC x 2LVD SCSI router cards, four VHDCI-WIDE SCSI cables, User Guide CD.) This SKU does not include a card cage; it is an upgrade SKU and requires 262665-B21 to be configured first, when configured it increases the number of SCSI ports available to connect drives in an ESL9000 library to the SAN, to a total of eight). It is recommended that the installation HP Care Pack be ordered with this SKU.	613326254998	262664-B21	
LVD Extender Kit	LVD Extender kit (Required for HBA to Library SCSI cable lengths exceeding 10 m)	720591597658	221249-B21
ESL9000 magazine	ESL9000 6 slot magazine	720591696979	229909-B21
Data Protection Suites for Backup and Restores	CommVault Galaxy		
	Phan Kit, CommVault Galaxy	613326417072	281593-B21
	DP Suite, single server	613326416877	281577-B21
	DP Suite, SAN standard	613326417010	281585-B21
	DP Suite, SAN advanced	613326417041	281588-B21
	DP Suite, Network	613326416921	281582-B21
	Additional CommVault Galaxy Suite Descriptions		
Phan Kit, CommVault Galaxy - Media Kit that contains live trial software			
DP Suite, single server - Designed for backing up a single server, with no server clients, using a single internal or external tape drive.			

Related Options

DP Suite, SAN standard - Entry level SAN kit that contains:
 ISV application software for six servers on the SAN
 Two server clients for backing up over the LAN
 Each SAN server has a choice of a database agent or open file systems option

Support for up to eight shared automated, tape drives

DP Suite, SAN advanced - Data center SAN kit that contains:
 ISV application software for fourteen servers on the SAN
 Two server clients for backing up over the LAN
 Each SAN server has a choice of a database agent or open file systems option

Support of up to sixteen shared, automated tape drives

DP Suite, Network - Designed for backing up a single server and server clients over the network using a tape drive, an autoloader or business class automation. Includes choice of one database agent or open file systems option.

CA BrightStor ARCserve

Phan Kit, CA ARCserve	613326431962	283915-B21
DP Suite, single server	613326416860	281576-B21
DP Suite, SAN standard	613326416990	281583-B21
DP Suite, SAN advanced	613326417027	281586-B21
DP Suite, Network	613326416914	281581-B21

Additional CA BrightStor ARCserve Suite Descriptions

Phan Kit, CA ARCserve - Media Kit that contains live trial software

DP Suite, single server - Designed for backing up a single server, with no server clients, using a single internal or external tape drive.

DP Suite, SAN standard - Entry level SAN kit that contains:
 ISV application software for six servers on the SAN
 Two server clients for backing up over the LAN
 Each SAN server has a choice of a database agent or open file systems option

Support for up to eight shared automated, tape drives

DP Suite, SAN advanced - Data center SAN kit that contains:
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Support of up to sixteen shared, automated tape drives

DP Suite, Network - Designed for backing up a single server and server clients over the network using a tape drive, an autoloader or business class automation. Includes choice of one database agent or open file systems option.

Related Options

VERITAS Backup Exec

Phan Kit, VERITAS Backup Exec	613326431948	283914-B21
DP Suite, single server	613326416884	281578-B21
DP Suite, SAN standard	613326417003	281584-B21
DP Suite, SAN advanced	613326417034	281587-B21
DP Suite, Network	613326416907	281580-B21

Additional VERITAS Backup Exec Suite Descriptions

Phan Kit, VERITAS Backup Exec - Media Kit that contains live trial software

DP Suite, single server - Designed for backing up a single server, with no server clients, using a single internal or external tape drive

DP Suite, SAN standard - Entry level SAN kit that contains: ISV application software for six servers on the SAN
Two server clients for backing up over the LAN
Each SAN server has a choice of a database agent or open file systems option
Support for up to eight shared automated, tape drives

DP Suite, SAN advanced - Data center SAN kit that contains: ISV application software for fourteen servers on the SAN

DP Suite, Network - Designed for backing up a single server and server clients over the network using a tape drive, an autoloader or business class automation. Includes choice of one database agent or open file systems option.

Legato NetWorker

Phan Kit, VERITAS Backup Exec	613326520048	293599-B21
DP Suite, single server edition of Legato NetWorker D1	613326520024	293600-B21
DP Suite, EL SAN edition of Legato NetWorker S1	613326518380	293602-B21
DP Suite, Corp SAN edition of Legato NetWorker S2	613326518366	293603-B21
DP Suite, Network edition of Legato NetWorker D2	613326520000	293601-B21

Additional Legato NetWorker Suite Descriptions

Phan Kit, Legato NetWorker - Media Kit that contains live trial software

DP Suite, single server - Designed for backing up a single server, with no server clients, using a single internal or external tape drive

DP Suite, SAN standard - Entry level SAN kit that contains: ISV application software for six servers on the SAN
Two server clients for backing up over the LAN
Each SAN server has a choice of a database agent or open file systems option
Support for up to eight shared automated, tape drives

DP Suite, SAN advanced - Data center SAN kit that contains: ISV application software for fourteen servers on the SAN

DP Suite, Network - Designed for backing up a single server and server clients over the network using a tape drive, an autoloader or business class automation. Includes choice of one database agent or open file systems option.

Technical Specifications

SCSI Identification	Product ID	ESL9000 Series	
	Vendor ID	HEWLETT-PACKARD	
Control Panel	Library and Drive Status Move tape cartridges Load/Unload tape drives Maintenance (drive cleaning, diagnostics) Library Configuration Statistics		
SCSI Interface	Ultra 2 SCSI LVD, 68HD Interconnect (External cable length between library and HBA, limited to 10 m without LVD extender, extends up to 25 m when using the LVD extender)		
Form Factor	Free Standing		
Dimensions (H x W x D)	Height	75 in (191 cm)	
	Width	60 in (152 cm)	
	Depth	29 in (75 cm)	
Unit Weight	Without data cartridges, 0 drives	1444 lb (655 kg)	
	SDLT drive in Hot Plug canister	13.5 lb (6.12 kg per drive)	
	Without data cartridges, 2 drives	1471 lb (667.24 kg)	
	Without data cartridges, 16 drives	1660 lb (752.92 kg)	
Performance (native) (16 MB/s per drive)	Minimum configuration	2 Hewlett-Packard SDLT drives, 400/500/595 slots Native transfer rates up to 79.2GB/hr	
	Maximum configuration	16 Hewlett-Packard SDLT drives, 400/500/595 cartridge slots Native transfer rates up to 633.6GB/hr	
Storage Capacity	Supports 400/500/595 SDLT cartridges for native capacity of: 400 slots – 44 TB (88 TB at 2:1 compression) 500 slots – 55 TB (110 TB at 2:1 compression) 595 slots – 65.45 TB (130.9 TB at 2:1 compression)		
Input/Output Port	2 x 6 slot removable magazines		
Initialization (cartridge inventory) time	< 5 minutes		
Cartridge Swap time	28 seconds average		
Cartridge Swap Rate	>135 swap/hour		
Electrical Specifications	AC Voltage	Auto-range to domestic and international AC voltages AC Voltage Range: 90 to 132 VAC or 180 to 264 VAC, single phase Nominal: 100 to 120 VAC or 220 to 240 VAC Line Frequency Range: 47 to 63Hz AC Receptacle: IEC-320 C19 Type 100-120V/200-240V, 50/60 Hz, 20A/16A (5-20P plug for U.S. and Canada)	
	Power Consumption	VA Maximum 1,600W 5500 BTU/hr or 1400 Kcal/hr	
Acoustic Noise	Noise Power Emission Level	Idle	7.8 bels
		Operating	8.1 bels
Reliability (Library Only)	MTBF	250,000 hours	
	MSBF	2,000,000 load/unload cycles	

Technical Specifications

Regulatory Compliance Safety

UL1950, CSA C22.2 950, EN 60950:1992/A11, IEC 60950:1992/A11, DHHS/FDA (US CFR21 part 1040, Class 1 laser), EN 60825:1994/A11, Nemko

Emissions

FCC Part 15 Class A, CE Marking directive (93/68/EEC) (Class A), CISPR Publication 22 Class A, ICES-003 Class A, VCCI Class 1, C-Tick SMA AZ/NZS 3548 Class A BCIQ

EN6100-3-2, EN50082-1: 1992, EN55022: 1994, EMC Directive [89/336/EEC], Low Voltage Directive [73/23/EEC]

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