

MODELS

ESL9326D Enterprise Library

The Compaq StorageWorks™ ESL9326D Enterprise Library comes equipped with 326 media slots and up to 16 Compaq 35/70 DLT tape drives (number of drives determined by SKU chosen).

146205-B21	0 drives/326 slots
146205-B23	6 drives/326 slots
146205-B24	8 drives/326 slots
146205-B25	10 drives/326 slots
146205-B26	12 drives/326 slots
146205-B27	14 drives/326 slots
146205-B28	16 drives/326 slots
146209-B21	Add on 35/70 drive
161268-B21	Pass thru kit

The ESL9326D comes with a complete 326 slot library system configured with the associated number of drives, two country specific power cords, installation and user's manual, one-piece DLT IV media, one DLT cleaning tape, and a copy of the Compaq Storage Management Solutions CD. Customers are required to also purchase the necessary number of host bus adapters, SCSI cables, DLT media, and applications software licenses in order to complete the library solution.

Due to the size and weight of the unit, a pre-installation site survey is required. The pre-installation site survey document is on http://www.compaq.com/support/echpubs/installation_guides/146587-001.html. Please note that this Web site is available in English only.

Installation services can be ordered separately on Compaq Services as part of each library order (requires scheduling with local Compaq Services provider). **Note:** Does not include special site work, which may be required as a result of not meeting minimum site survey requirements.

The Ultimate in High-Capacity Unattended Backup and Restore

The Compaq StorageWorks ESL9326D Enterprise Library provides the ultimate in high-capacity unattended backup and restore for customers who are phasing out single server distributed backup strategies and migrating towards large server pools serviced by network attached storage devices or storage area networks. The consolidation of the worldwide 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 ESL9326D 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 326 slots and up to 16 Compaq 35/70 DLT drives, the ESL9326D offers up to 22.8 TB of data storage (using 2:1 compression) and native transfer rates up to 288 GB/hr.

The ESL9000 Enterprise Library Family

The ESL9326D enterprise library is the first product in the Compaq ESL9000 class enterprise DLT library family. 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.

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 ESL9326D offers the best in high availability for continuous operation.

Hot Swappable Drives

The ESL9326D uses "hot swappable" DLT drive carriers, allowing additional DLT drives to be added without taking the unit off-line. These hot swappable drive trays allow for easy scalability of performance, as well as provide an easy upgrade path towards future DLT drive technologies.

Note: The ESL9326D accepts only library ready drives specifically modified for use in the ESL9326D library.

Proven Reliability

Using DLT tape drives, and proven library robotics with a rating of 1,000,000 load/unload cycles, the ESL9326D provides the necessary high reliability.

Proven DLT Technology

Digital Linear Tape uses a proven linear recording technology, a highly accurate tape guide system, and a read after write LZ 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 Compaq 35/70 DLT drives used in the ESL9326D can read previous versions of DLT cartridges (DLT tape IV, DLT tape IIIxt and DLT tape III).

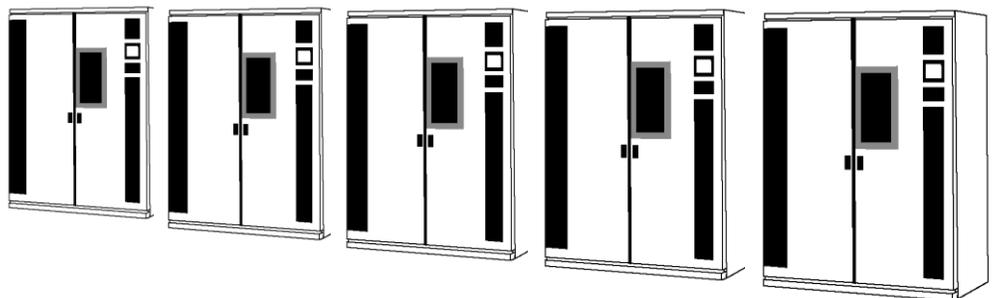
Manageability

The ESL9326D library configurations are fully supported through Compaq Insight Manager™ 4.40, providing information to administrators for both robotic, tape status changes, and fault status of redundant components (high availability fault status requires use of CIM 4.50 or later). Compaq TSMC (Tape Storage Management Console) software provides management and diagnostics. Other data and automation manageability features, including multi-host direct connectivity, are provided via specific, third-party applications software packages.

Multi-unit Scalability

The ESL 9326D has the capability for multi-unit scalability, up to 5 libraries can be scaled together in a "virtual library" using Passthrough kit to provide a maximum of 80 drives and 1630 cartridges*

* Current software limitations restrict support to 32 drives.



Compaq StorageWorks ESL9326D Enterprise Class
DLT Tape Library

O/S Support

MS Windows 2000
MS Windows NT v4.0 SP5
NetWare 4.12
Tru64 Unix v4.0E, v4.0F, and v5.0A and later
Open VMS v7.1-2 and 7.2-1

Server Support

High-End *ProLiant*™ Servers

ProLiant DL750 / 8500 Pentium® II Xeon™
ProLiant ML750 / 8000 Pentium II Xeon
ProLiant 7000 Pentium Pro
ProLiant 7000 Pentium II Xeon
ProLiant 6500 Pentium Pro
ProLiant 6500 Pentium II Xeon
ProLiant DL580 / 6400R Pentium III Xeon
ProLiant 6000 Pentium Pro
ProLiant ML570 / 5500 Pentium II Xeon
ProLiant ML530 / 3000 Pentium III

Compaq AlphaServers

AlphaServer GS320, GS160, GS80
AlphaServer GS140 / 8400
AlphaServer GS60 / 8200
AlphaServer ES40 / 4100
AlphaServer 4000

SCSI Controllers

ProLiant Adapters

Compaq library adapter Dual Channel Ultra HVD 157299-B21
Adaptec AHA2944UW, BIOS v1.25
(Third Party Adapter – Tested but not supported by Compaq.)

Alpha Adapters

Compaq *StorageWorks* KZPSA-BB
Compaq *StorageWorks* KZPBA-CB

Application Support

Compaq supports the following backup/restoration applications software packages:

CA Arcserve/IT v6.61 for Windows NT/2000
CA Arcserve/IT v6.6 for Netware
Legato NetWorker v5.51 for Windows NT (Intel and Alpha)
Legato NetWorker (NSR) v5.51 for Tru64™ UNIX
Legato SmartMedia v1.2 (Build 357) for Windows NT (Intel and Alpha) and Tru64 UNIX
(Suggested library server configuration: PL5500 with 4 processors.)
Veritas Backup Exec v8.0 for Windows NT and 2000
Storage Library System (SLS) v2.9C for OpenVMS
Archive/Backup System (ABS) v2.2 for OpenVMS

Automation and Network Utilities

Media Robot Utility (MRU) v1.4
Compaq Insight Manager v4.30 (NT only)
Compaq Insight Manager v4.40 (NT, NetWare, UnixWare7)

SPECIFICATIONS

SCSI Identification

Product ID ESL9000 Series

Vendor ID COMPAQ

Control Panel

Library and Drive Status

Move tape cartridges

Load/Unload tape drives

Maintenance (drive cleaning, diagnostics)

Library Configuration

Statistics

SCSI Interface

Fast-Wide Differential, SCSI-2, 68HD

Form Factor

Free Standing

Dimensions (HxWxD)

Height 75 in/191 cm

Width 57 in/145 cm

Depth 29 in/75 cm

Unit Weight

Without data cartridges, 6 drives 1165 lbs/529 kg

Without data cartridges, 16 drives 1300 lbs/590 kg

326 data cartridges, 16 drives 1457 lbs/661 kg

Performance (native)

5 MB/s per drive

Minimum configuration 6 Compaq 35/70 DLT drives

native transfer rates up to 108 GB/hr

[\(Zero drive configuration also available for custom field configuration\)](#)

Maximum configuration

16 Compaq 35/70 DLT drives, 326 cartridge slots

native transfer rates up to 288 GB/hr

With Multi-unit Scalability

Up to 80 drives* and 1630 cartridges

Storage Capacity

Supports 326 DLT IV cartridges for compressed capacity up to:

11.4 TB native,

22.8 TB compressed (2:1)

With Multi-unit Scalability

57 TB native, 114 TB compressed (2:1)

Input / Output Port

2 x 6 slot removable magazines

Initialization Time

< 9 minutes

Tape Access Time

< 33 seconds

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)

VA Maximum 1,600W

Power Consumption

Acoustic Noise

Noise Power Emission Level

Idle 7.8 bels

Operating 8.1 bels

Reliability (Library Only)

MTBF 250,000 hours (20% duty cycle)

MSBF 1,000,000 load/unload cycles

*Current software limitations support up to 32 drives.

SPECIFICATIONS *(continued)*

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, NOM-019-SCFI-1998, GOST-R
EMI	FCC Part 15 Class A, CISPR Publication 22 Class A, ICES-003 Class A, VCCI Class 1, SMA AZ/NZS 3548 Class A
EMC	EN6100-3-2, EN50082-1:1992, EN50022:1994

Warranty

(3-1-1) Three-year warranty, first year, on-site next day response, years two & three parts exchange.

Additional Warranty protection can be purchased for all ESL9326D DLT Library products.

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. In Canada, consult the Product Information Center at 1-800-567-1616 for details.

COMPAQ INSTALLATION AND CAREPAQS

Additional Warranty protection and/or Compaq Installation packages can be purchased for the ESL9326D DLT Library products:

Installation Services

For library SKUs ending in suffix -B21 through -B24 (0 to 8 drive units) FM-T6INS-IN

For library SKUs ending in suffix -B25 through -B28 (9 to 16 drive units) FM-T7INS-IN

For Pass through Mechanism Kit FM-T7INP-IN

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. In Canada, consult the Product Information Center at 1-800-567-1616 for details.

RELATED OPTIONS

The ESL9326D solution includes the following related options:

DLT Cartridges

DLT IV Data Cartridges, single pack	295194-B21
DLT IV Data Cartridges, 7 pack	295192-B21
DLT Cleaning Cartridge	199704-001
DLT Bar Code Labels, 100 pcs.	158398-001

Host Bus Adapters

ProLiant Controllers

StorageWorks Dual Channel Ultra-Wide Differential Library Host Bus Adapter 157299-B21

AlphaServer Controllers

Fast Wide Differential SCSI Adapter KZPSA-BB
Ultra SCSI Differential Adapter KZPBA-CB

SCSI Cable Kits

Wide Differential SCSI cable, 5 m	328215-001
Wide Differential SCSI cable, 10 m	328215-002
Wide Differential SCSI cable, 15 m	328215-003
Wide Differential SCSI cable, 20 m	328215-004
SCSI Cable, VHDCI / Wide, 6 ft	341176-B21
SCSI Cable, VHDCI / Wide, 12 ft	341177-B21