

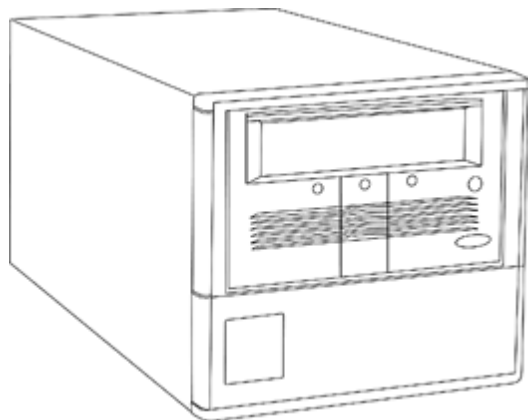
Overview

Tape backup is an important component in a complete data protection strategy. Tape offers long term reliability, the ability to remove media offsite and has a low cost per GB. The HP StorageWorks SDLT Tape Drives are high-capacity, high-performance streaming tape drives designed for use with HP ProLiant servers, HP AlphaServers, and Open SAN storage systems. These tape drives use Laser Guided Magnetic Recording (LGMR) technology to maximize the amount of data that can be stored on a tape. HP SDLT drives also use a clustered magnetic-resistive (MR) head technology to improve data density, use Partial Response Maximum Likelihood (PRML) technology to provide increased performance, and have a robust tape buckling system for reliability.

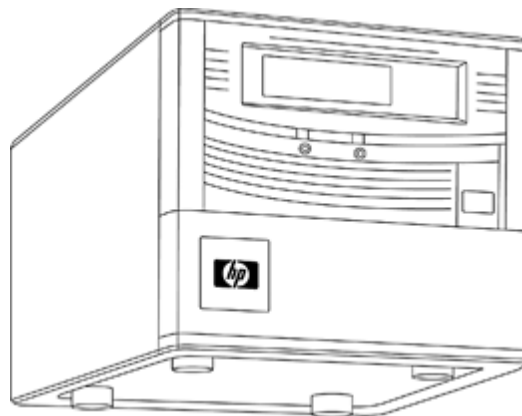
The SDLT 600 is the newest tape drive in the SDLT drive family. This drive is for HP customers who use Corporate-to-Enterprise servers and require higher performance and greater capacity than the SDLT 320 offers. The HP StorageWorks SDLT 600 GB Tape Drive extends the advantages of an SDLT-based data protection solution by increasing capacity and performance by almost double. Total costs of ownership are lowered by reducing the number of data cartridges required and by shrinking the backup window for business-critical data. In addition, backward-read compatibility to existing DLT VS and SDLT-based solutions provides the highest level of investment protection while offering a smooth transition path to new SDLT based data protection solutions. The SDLT 600 offers backward-read compatibility to the DLT VS 160 and to the SDLT 320 and SDLT 220. The HP SDLT 600 offers write once read many (WORM) support and will use the new HP Super DLTtape II 600GB data cartridge. This media uses new eMP60 technology with a thinner magnetic layer and smaller magnetic particle in order to provide the increased capacity and improved strength and durability.

The SDLT 320 tape drive is the second SDLT drive after the SDLT 220. The SDLT 320 is for HP customers who use Corporate-to-Enterprise servers and require high performance and capacity and enterprise class reliability. Backward-read compatibility to existing DLT and SDLT-based solutions provides the highest level of investment protection while offering a smooth transition path to new SDLT based data protection solutions. The SDLT 320 offers backward-read compatibility to the SDLT 220 and the DLT 80, it is also write-compatible with the SDLT 220 and utilizes the same DLT1 media and cleaning cartridge as the SDLT 220.

HP StorageWorks SDLT 320 Tape Drive



HP StorageWorks SDLT 600 Tape Drive



What's New

- **SDLT 600 Tape Drive:**
 - Increased capacity and performance
 - New Ultra 160 SCSI Interface
 - New Super DLTtape II 600GB Media
 - Improved Digital Data Rate Response Agent - Supports new 16 channel head
 - Improved management through Library and Tape Tools (LTT)
 - Write once read many (WORM) support
 - One Button Disaster Recovery (OBDR) support

Overview

Models

HP StorageWorks SDLT Tape Drive Family

NOTE: When purchasing an internal SDLT 600 or SDLT 320 for use in a HP ProLiant ML530 or a ProLiant ML570, a cooling fan also needs to be ordered and installed inside the server. The fan kit part number is 344257-B21 or AE333A (RoHS Compliant version) and comes with installation instructions to install inside the server.

HP StorageWorks SDLT 600 Tape Drive	SDLT 600 Internal Tape Drive	A7518B
	SDLT 600 External Tape Drive, North America	A7519B
	SDLT 600 External Tape Drive, Worldwide	A7520B

HP StorageWorks SDLT 320 Tape Drive	SDLT 320, Internal, Worldwide (Carbon)	257319-B21
	SDLT 320, External, North America (Carbon)	257319-001
	SDLT 320, External, International (Carbon)	257319-B31
	SDLT 320, External, Japan (Carbon)	257319-291

Key Features

- **SDLT 600:**
 - SCSI Ultra 160 LVD Interface
 - 600 GB compressed capacity
 - 72 MB/s compressed performance
 - Utilizes New Super DLTtape II 600GB Media
 - with eMP60 Technology
 - Backward-read compatibility with the SDLT 320 and the DLT VS160
 - WORM Support (Write Once Read Many)
 - One Button Disaster Recover (OBDR)
- **SDLT 320:**
 - SCSI Ultra 2 LVD Interface
 - 320 GB compressed capacity
 - 32 MB/s compressed performance
 - Utilizes SDLT1 media with Advanced Metal Powder (AMP) Technology
 - Backward-read compatibility with DLT Type IV tape cartridges used with DLT1, DLT VS80, DLT 40, DLT 70, and DLT 80 tape drives
- **SDLT 600 & SDLT 320:**
 - Internal and external models, with multiple options for rack-mount configurations on both models
 - Supported in multiple rack-mount kit options including the 3U Rack-mount Kit and 5U Rack-mount Kit
 - Includes support for DRTape, an HP tape-based disaster recovery tool
 - Supported by HP Data Protector, HP Data Protector Express, VERITAS Backup Exec, VERITAS NetBackup, Yosemite TapeWare, and Computer Associates ARCserve
 - Qualified behind Windows 2000, Windows 2003, HP-UX, Novell NetWare, HP Tru64 UNIX®, OpenVMS, Red Hat Linux, SuSE Linux, Caldera Linux, Caldera UnixWare®, Caldera OpenServer, and Caldera Open UNIX

Please refer to <http://www.hp.com/go/connect> for the most recent compatibility information.

Overview

Customer Features and Benefits

- High capacity in a single drive, reducing the number of cartridges needed to complete a back-up and lowering the total cost of ownership
- High performance reducing the amount of down time
- Higher capacity and improved reliability with advanced technology on the media
- Investment Protection with backward read capability
- Ability to set up compliant storage solutions using tape with support for write once, read many media (WORM).
- Improved Digital Data Rate Response Agent improving performance and reliability in non-streaming host environments.
- New blue Super DLTtape II cartridge color allows for easy media format recognition.
- Improved optical servo system supports Super DLTtape II media data density and improves tracking margin.
- Redesigned front panel provides more consistent airflow for internal drives.
- Improved mounting system provides increased reliability and stability
- SDLT technology roadmap offers future capacities beyond 1 TB per cartridge.
- Internal, External, Rack-mount options available
- Includes a single-server version of HP Data Protector Express backup software with disaster recovery option
- HP One-Button Disaster Recovery (OBDR) restores your entire system at the touch of a button
- Supported by HP StorageWorks Library and Tape Tools (LTT), which helps with installation, management, performance optimization, and troubleshooting.

Family Comparison

	SDLT 600	SDLT 320	SDLT 220
Announce Date	February 2005	June 2002	March 2001
Capacity (native)	300 GB	160 GB	110 GB
SCSI Interface	Ultra 3, LVD	Ultra2, LVD	Ultra2, LVD
Buffer	64 MB	64 MB	32 MB
Firmware Upgradeable	Yes, with L&TT	Yes, with L&TT	Yes, with L&TT
Maximum Drives per bus	2 or more	2 or more	2 or more
MTBF	250,000 @ 100%	250,000 @ 100%	250,000 @ 100%
Transfer Rate	36 MB/s	16 MB/s	11 MB/s

Product Highlights

Super DLT (SDLT) Technology

Super DLT Tape is an extension of the DLT platform. It is designed to meet the business critical demands of enterprise storage customers. The new SDLT platform extends the advantages of DLT technology by increasing capacity, performance, and reliability standards through technological advances in drive head and media design. With backward-read compatibility, the new SDLT tape drive provides customers with an easy migration path to advanced technology for their data protection strategies.

Backward-Read Compatibility

The new SDLT 600 drive provides backward-read compatibility to the SDLT 320 and the DLT VS160. The HP StorageWorks SDLT 320 provides backward-read compatibility with DLT Type IV media written by DLT1, DLT VS80, DLT 40, DLT 70, and DLT 80 tape drives. This feature provides the ultimate level of investment protection for customers seeking read compatibility with their current inventory of DLT-based data backups, while providing for an easy transition to SDLT-based data protection solutions.

OBDR - One Button Disaster Recovery

With HP One-Button Disaster Recovery, you can quickly, reliably and simply restore your entire system just by inserting the most recent backup tape and pushing one button on the tape drive. Your HP StorageWorks SDLT 600 tape drive will restore your operating system, configuration, applications, drivers and data files. There's no longer a need to search for software disks and manuals, plus with downtime reduced, the costs of recovery are minimized. There's no need to make a new set of disaster recovery disks each time the network configuration is altered or a peripheral is added. Recovering from a disaster manually at a stressful time makes for an error-prone process. The sheer simplicity of HP One-Button Disaster Recovery means less human error. Backup and disaster recovery preparation - previously two separate tasks - become one process. OBDR is simply the best disaster recovery product for small to medium systems. For a current list of servers, workstations, and software that support OBDR, check the tape backup compatibility pages on our Web site at: <http://www.hp.com/go/connect>.

WORM

The HP StorageWorks SDLT 600 Tape Drive includes support for WORM (Write-Once, Read-Many) functionality. The SDLT 600 WORM implementation is currently supported by Veritas NetBackup. As more software support is added, updated support information can be found at: <http://www.hp.com/go/connect>.

WORM technology provides an enhanced level of security against accidental or malicious alteration of data on tape cartridges. WORM can be important when implementing data retention policies to be compliant with regulations regarding the storage of data on non-rewritable, non-erasable media. The SDLT 600 tape drive ships with support for WORM and can be set to WORM mode using the backup application. Once the cartridge has been set up for WORM, you will be unable to erase or overwrite the data on it, although you will be able to append data until the cartridge is full. WORM media can be read as often as required. When implementing WORM an unformatted or blank Super DLTtape II 600GB data cartridge is required.

For information on how your HP StorageWorks SDLT 600 Tape Drive and WORM cartridge can help your business meet information lifecycle management (ILM) and regulatory compliance requirements, please go to <http://www.hp.com/go/tape>.

Product Highlights

Software in the Box

HP StorageWorks SDLT tape drives include HP Data Protector Single Server Edition backup/recovery software and the HP Data Protector Express Bare Metal Disaster Recovery . By using this application, customers are assured of utilizing the performance from an HP SDLT tape drive and the widest support for the OBDR feature.

As well as getting the Data Protector Express Single Server Edition at no incremental cost, HP StorageWorks tape drive purchasers can upgrade to the class leading Data Protector Express at a significantly reduced price, compared to the standard price, by ordering Data Protector Express using the BB117AT part number. BB117AT is available at the time the tape drive is purchased or later. It is only available for new customers of HP StorageWorks tape drives.

Upgrading to Data Protector Express allows network backup, extends the D2D backup capacity and capability and permits the additions of agents and extensions to increase scale and performance of the backup infrastructure.

Rack-mount Tape Options

The SDLT 320 and SDLT 600 are supported in the HP StorageWorks 3U and 5U Rack-mount Kits, allowing customer to install up to 2 internal DLT or SDLT drives in a 3U rack-mount space or up to 4 internal DLT or SDLT drives in a 5U rack-mount space, respectively. Standard configuration for 3U Rack-mount Kit provides two internal SCSI buses (channels) supporting one DLT or SDLT drive per bus. Standard configuration for 5U Rack-mount Kit provides two internal SCSI buses (channels) supporting up to 2 DLT or SDLT drives per bus. Optional cable kit permits user to extend from two to four internal SCSI buses in 5U Rack-mount Kit, increasing the performance (data transfer rate) by allowing the customer to stream data to all four drives simultaneously.

NOTE: Please refer to the [Rack-mount Tape Drive Kits QuickSpecs](http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML) for further information: http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML.

Compatibility and Integration Testing

SDLT tape drives are fully supported and compatible with HP ProLiant and AlphaServer systems, HP StorageWorks DLT Tape Enclosures and Array, and controllers. HP thoroughly tests products with leading software and operating systems, including HP Data Protector, HP Data Protector Express, VERITAS Backup Exec and CA ARCserve.

HP StorageWorks Library and Tape Tools (L&TT)

The HP StorageWorks HP StorageWorks SDLT tape drive family is supported on HP's industry-leading diagnostic tool - HP StorageWorks Library and Tape Tools (L&TT). L&TT is a single, convenient program that's a snap to install and simple to operate. L&TT's intuitive user interface eliminates the need for training and deploys in less than five minutes. This tool can make integration of the drive into a network faster by troubleshooting any errors and firmware upgrades easier to manage. This robust diagnostic tool is designed for both the experienced professional and the untrained administrator. It ensures product integrity through self-diagnostics and fast resolution to device concerns.

L&TT:

- Verifies installation of the drive
- Tests/verify the health of the drive and media
- Provides HP support with detailed device information
- Offers multiple options for finding and upgrading new firmware
- Performs performance optimization and recommendations
- Is included with each SDLT tape drive and available via free download supporting all HP tape products

Additional information on L&TT plus download information can be found at <http://www.hp.com/support/tapetools>.

Compatibility

HP's extensive compatibility testing program assures that your HP StorageWorks SDLT tape drive family works with leading servers, operating systems, and backup applications - and not just those sold by HP. HP StorageWorks SDLT tape drives work seamlessly in many environments, making them especially suitable if you have a mixed system environment. For the latest list of servers, workstations, operating systems, and backup software that support HP SDLT tape drives, check the tape backup compatibility pages on our website at: <http://www.hp.com/go/connect>.

HP Server Compatibility The HP StorageWorks SDLT tape drive family are supported on the following classes of HP systems:

- HP ProLiant DL servers
- HP ProLiant ML servers
- HP Integrity servers
- HP 9000 servers
- HP AlphaServers
- HP workstations

For details of which tape drive models work with which systems, including third-party systems, visit <http://www.hp.com/go/connect> for the latest hardware compatibility information.

Media and Drive Compatibility

HP recommends that you use HP-branded cartridges in your HP tape drives to assure the highest level of protection for your valuable data. HP's test program for HP SDLT media is the most thorough and comprehensive in the industry. All HP cartridges must satisfy an exhaustive battery of additional tests that relate directly to real life situations, where real data and real businesses are at stake. Non-HP cartridges, whilst fully compatible, are less optimized for use in HP tape devices. Your best choice for ease of support and maximum dependability is to use HP-branded Super DLT cartridges at all times.

OS Support

- Microsoft® Windows 2000 and Windows 2003 (Microsoft Hardware Compatibility List)
- Novell NetWare
- HP-UX
- HP Tru64 UNIX
- OpenVMS
- Linux - Red Hat and SuSE (Red Hat Hardware Compatibility List)
- SCO Unix - Unixware, OpenServer

NOTE: Native Operating System Backup Applications Supported

NOTE: The Data Protector Express in-box software supports Windows, Linux and NetWare

NOTE: Please visit <http://www.hp.com/go/connect> for the latest compatibility information.

Backup Software Support

- HP Data Protector
- HP Data Protector Express
- VERITAS Backup Exec for Windows
- VERITAS Backup Exec for NetWare
- Computer Associates ARCserve for Windows
- Computer Associates ARCserveIT for NetWare
- Computer Associates ARCserve for Linux
- Dantz Retrospect Backup for Windows NT/2000
- Yosemite TapeWare for Windows, Novell NetWare, Linux

NOTE: Please visit <http://www.hp.com/go/connect> for the latest compatibility information.

Service and Support, HP Care Pack, and Warranty Information

HP Care Pack Services offer upgraded service levels to extend and expand your standard product warranty with easy to buy, easy to use support packages that help you make the most of your hardware and software investments. They let you choose the support levels that meet your business requirements, from basic to mission-critical. They help you contain total cost of ownership.

HP Care Pack warranty extensions can be purchased along with HP products to cost-effectively upgrade or extend your warranty. For many products, post-warranty HP Care Pack Services are available when your original warranty has expired.

Why purchase an HP Care Pack service?

Your standard warranty protects against product defects. HP Care Pack Services help you guard against unplanned downtime, which can reduce your productivity and profitability. These convenient service packages:

- Protect your investment in HP products
- Provide consistent, predictable levels of support across your entire department or business
- Ease budget planning with fixed-cost support that includes parts and labor
- Give you direct access to proven technical and problem-solving expertise
- Offer a choice of response-time and repair-time commitments
- Deliver prompt, measurable results
- Are available whenever and wherever you do business

HP Care Pack availability may vary by country and product.

Supporting your Adaptive Enterprise journey

HP Services helps you make the Adaptive Enterprise real for your organization. The breadth, depth, and quality of HP hardware and software support services can help you improve the performance of your IT support processes and resolve the complex software and hardware problems that tax user productivity. HP Care Pack services help you increase IT environment stability, efficiency, and agility from the desktop to the data center, and improve the productivity of your employees.

Warranty and Services Included with the Product Hewlett-Packard provides a 3-year, next-day, parts exchange, limited warranty, for the StorageWorks SDLT 600 Tape Drive, plus 9x5 phone support for the duration of the warranty.

For more information about HP's Global Limited Warranty and Technical Support, visit:
ftp://ftp.compaq.com/pub/products/storageworks/warranty/EN_321708-008.pdf

Service and Support, HP Care Pack, and Warranty Information

Recommended Services In order to maximize ROI and product uptime, and minimize the cost of ownership, Hewlett Packard recommends:

3 years 24 x 7 Hardware Support

- Guards against downtime, which reduces productivity and profitability
- Eases budget planning with fixed-cost support that includes parts and labor
- Direct access to proven technical and problem-solving expertise

3 years 24 x 7 Software Support

- Improve the productivity of system managers and operators
- Improve system performance and reduce downtime due to software defects
- Expedite problem resolution through expert-level technical resources
- Enjoy consistent service coverage across geographically dispersed sites
- Update HP and selected third-party software at a predictable cost
- Take advantage of subscription savings on software updates
- Keep your license compliancy up-to-date

Available HP Care Pack Services

Extend your product warranty with a wide choice of cost-saving support packages.

HP Care Pack Services are sold by HP and HP authorized enterprise and commercial resellers. Services for customers purchasing via direct and enterprise resellers are quoted using HP order configuration tools. Additional information about HP Care Pack Service features and benefits is available at <http://www.hp.com/hps/carepack/services/>.

Key for HP Care Pack Service availability in the table below:

- E = Service available for customers purchasing direct and via enterprise resellers
- C = Service available for customers purchasing via commercial resellers
- N/A = Service not applicable

	HP Care Pack Services Deployment and Per Event Services	Service Available
HP Installation		E/C
HP Installation & Startup		E/C
HP Implementation		N/A

For more information about Deployment and Per Event Services for HP Storage, visit <http://www.hp.com/hps/storage/>.

	HP Care Pack Services Availability Services				
	1 yr	3 yr	4 yr	5 yr	
HP Next Day Hardware Support	E/C	E/C	C	C	
HP 4 Hr, 9x5 HW Support	E/C	E/C	C	C	
HP 4 Hr, 13x5 Hardware Support	E/C	E/C	C	C	
HP 4 Hr, 24x7 Hardware Support	E/C	E/C	C	C	
HP 6 HR Call-to-Repair HW Support	E/C	E/C	C	C	
HP Software Support	E/C	E/C	C	C	
HP Software Support 24x7	E/C	E/C	C	C	

Service and Support, HP Care Pack, and Warranty Information

HP Support Plus	E/C	E/C	C	C
HP Support Plus 24	E/C	E/C	C	C
HP Proactive Essentials 9x5, 10 SW Incidents	N/A	N/A	N/A	N/A
HP Proactive Essentials 9x5, 25 SW Incidents	N/A	N/A	N/A	N/A
HP Proactive Essentials 9x5 Unlimited	N/A	N/A	N/A	N/A
HP Proactive Essentials 24x7, 25 SW Incidents	N/A	N/A	N/A	N/A
HP Proactive Essentials 24x7, 50 SW Incidents	N/A	N/A	N/A	N/A
HP Proactive Essentials 24x7 Unlimited	N/A	N/A	N/A	N/A
HP Proactive 24 Service *	E/C	E/C	N/A	N/A
HP Critical Service *	E/C	E/C	N/A	N/A

***NOTE:** Both Proactive 24 & Critical Service only relate to 'reactive elements'. 'Proactive elements' are available on time & materials basis. (SW is supported separately per package).

To find HP Care Pack Services available via HP authorized commercial resellers, visit http://h30125.www3.hp.com/csn/salesmktg/elfpack/elf_nonlkup_ctrylang.asp?code=ELNL

HP Care Pack Service Product Numbers

Enterprise & Commercial Purchased Care Packs ('A' stands for physical Care Pack, 'E' for electronic Care Pack)

Product Number	Product Description
U2090A/E	Tape Installation HW Installation Only
H3157A/E	HW, "3-year", "NBD", "9x5", "on-site"*
H4617A/E	HW, "3-year", "4-hour", "13x5", "on-site"
H4622A/E	HW, "3-year", "4-hour", "24x7", "on-site"
U6359A/E	HW, "3-year", "6hr CTR", "24x7", "on-site"
U9342A/E	HW, "4-year", "4-hour", "13x5", "on-site"
U9343A/E	HW, "4-year", "4-hour", "24x7", "on-site"
U9344A/E	HW, "5-year", "4-hour", "13x5", "on-site"
U9345A/E	HW, "5-year", "4-hour", "24x7", "on-site"
UA454PE	HW, "1-year", "NBD", "9x5", "on-site", "Post Wty"
UA455PE	HW, "1-year", "4-hour", "13x5", "on-site", "Post Wty"
UA456PE	HW, "1-year", "4-hour", "24x7", "on-site", "Post Wty"
UA457PE	HW, "1-year", "6hr CTR", "24x7", "on-site", "Post Wty"

Enterprise Purchased Care Packs

Service and Support, HP Care Pack, and Warranty Information

Product Number	Product Description	DLT VS160 Band	DLT VS160 Install Band
HA113A1	Tape Installation HW Installation Only	N/A	596
HA101A3	HW, "3-year", "next-day", "13x5", "on-site"	455	N/A
HA103A3	HW, "3-year", "4-hour", "13x5", "on-site"	455	N/A
HA104A3	HW, "3-year", "4-hour", "24x7", "on-site"	455	N/A
HA105A3	HW, "3-year", "6hr CTR", "24x7", "on-site"*	455	N/A
HA106A3	SW, "3-year", "Phone-in", "9x5"	N/A	N/A
HA107A3	SW, "3-year", "Phone-in", "24x7"	N/A	N/A
HA106A3	SW, "3-year", "Phone-in", "9x5"	N/A	N/A
HA107A3	SW, "3-year", "Phone-in", "24x7"	N/A	N/A
HA109A3	HW Only, Support Plus, "3-year", "13x5"	455	N/A
HA110A3	HW Only, Support Plus 24, "3-year", "24x7"	455	N/A
HA111A3	HW Only, Proactive 24, "3-year", "24x7"*	455	N/A
HA112A3	HW Only, Critical Service, "3-year", "24x7"*	455	N/A

NOTES:

* Both Proactive 24 & Critical Service only relate to 'reactive elements', 'proactive elements' are available on time & materials basis. (SW is supported separately per package).

The Care Pack information quoted above relates to 3 year offerings only, 1yr packs are available for each offering (replace A3 with A1).

eSupport

HP eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.

Support Portal

The HP support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.

Features include:

- Access to self-solve tools (including search technical knowledge base)
- Efficient logging and tracking of support cases
- Collaboration with other business and IT professionals
- Download of patches and drivers
- Access to diagnostic tools
- Proactive notification of relevant information

Access to certain features of the support portal requires an HP service agreement. To access the support portal, visit <http://www.hp.com/support>

HP Education Services

For more information about HP Education Services for Storage and SAN, visit <http://education.hp.com/curr-storsan.htm>

Service and Support, HP Care Pack, and Warranty Information

Additional Services Information

For more information about Deployment, Per Event, Consulting and Education services for HP Storage, visit: <http://www.hp.com/hps/storage/>

For more information about HP Care Pack Services for Storage, visit: http://www.hp.com/hps/carepack/storage/cp_networked.html

For more information about HP Storage Software, services and updates, visit: <http://h18006.www1.hp.com/storage/software.html>

If you have specific questions, contact your local HP representative. Contact information for a representative in your area can be found at "Contact HP" <http://www.hp.com>

Options

Fan Option	Internal Cooling Fan Kit	344257-B21
	<p>NOTE: When purchasing an internal SDLT 320 or SDLT 600 for use in a ProLiant ML530, ProLiant ML570, the internal cooling fan kit needs to be ordered and installed inside the server. The fan kit comes with installation instructions to install inside the server.</p> <p>NOTE: 0D1 will appear after this part number on your sales order if factory integration is indicated.</p>	
	RoHS Compliant Internal Cooling Fan Kit	AE333A
	<p>NOTE: When purchasing an internal SDLT 320 or SDLT 600 for use in a ProLiant ML530, ProLiant ML570, the internal cooling fan kit needs to be ordered and installed inside the server. The fan kit comes with installation instructions to install inside the server.</p> <p>NOTE: 0D1 will appear after this part number on your sales order if factory integration is indicated.</p>	
Media	HP Super DLTtape II 600GB data cartridge	Q2020A
	HP Super DLTtape 320 GB data cartridge (single cartridge)	C7980A
	HP Super DLTtape cleaning cartridge (For use with the SDLT 600 and the SDLT 320)	C7982A
Host Bus Adapters, Controllers, and Accessories for ProLiant Servers	Please check http://www.hp.com/go/connect a complete list supported controllers.	
	Smart Array 6i Controller (integrated on system board of certain servers)	N/A
	NOTE: This controller is integrated only on HP ProLiant DL380 G4 servers.	
	Integrated Single Channel Ultra320 SCSI Controller	N/A
	Integrated Dual Channel Ultra320 SCSI Controller	N/A
	64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter	268351-B21
	64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2	374654-B21
64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS	284688-B21	
Host Bus Adapters, Controllers, and Accessories for HP PA-RISC and IPF servers	64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter	A7173A
	PCI Ultra2 Low Voltage Diff SCSI Adaptor	A4999A
	PCI 2 Port 100Base-T 2 Port Ultra2 SCSI	A5838A
	NOTE: HP-UX only.	
	Please refer to the HP Tape Backup Products Compatibility website at http://www.hp.com/go/connect for more information on support for HP PA-RISC and IPF servers.	
Host Bus Adapters, Controllers, and Accessories for HP AlphaServers	32-Bit PCI to Single Channel Wide-Ultra2 SCSI Adapter	3X-KZPCA-AA
	Triple-Function Combo Adapter: LVD / SCSI II, 10/100 UTP Ethernet, and 2D Graphics	3X-DEPVZ-AA
	Dual Channel 64/66-MHz PCI-to-SCSI Ultra160 Host Bus Adapter	3X-KZPEA-DB

Options

Rack-mount Tape Options	<p>3U Rack-mount Kit, Worldwide NOTE: This is a 3U enclosure allowing customers to install an internal drive in a rack, ideal for customers who have a rack environment and do not have room inside the server for a tape drive. Accommodates up to four internal half-height drives or two full-height drives (such as the SDLT 320 and the SDLT 600). NOTE: Please refer to web page for further information: http://h18006.www1.hp.com/products/storageworks/3urackmount/index.html *NOTE: OD1 will appear after this part number on your sales order if factory integration into a rack is indicated.</p> <p>Alpha Rail Kit NOTE: Rail Kit is required for installation of 5U Rack-mount Kit or into AlphaServer rack.</p> <p>3U Alpha Rail Kit (6-3) NOTE: Rail Kit is required for installation of 3U Rack-mount Kit, single-drive rack-mount, or dual-drive rack-mount configuration into AlphaServer rack.</p>	<p>274338-B22</p> <p>254795-001</p> <p>280571-001</p>
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Cable Kits	<p>LVD Cable Kit, 68-pin HD/VHDCI NOTE: Internal and External Cables.</p> <p>LVD Cable Kit, 68-pin HD/68-pin HD NOTE: Internal and External Cables.</p> <p>68-pin HD/VHDCI, 12 ft/3.66 m NOTE: External Cable only.</p> <p>68-pin HD/VHDCI, 16.40 ft/5 m NOTE: External Cable only.</p> <p>68-pin HD/VHDCI, 12 ft/3.66 m NOTE: External Cable only.</p>	<p>168048-B21</p> <p>242381-B21</p> <p>341177-B21</p> <p>328215-001</p> <p>328215-002</p>
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Kit Contents

Model	Kit Contents Description	Part Number
SDLT 600 Internal	<p>Contains 1 internal SDLT 600 tape drive, 1 Super DLTtape II 600GB data cartridge, 1 Super DLTtape cleaning cartridge, 1 internal Ultra3 ribbon cable with switchable LVD/SE Terminator, HP StorageWorks Tape CD-ROM (contains HP StorageWorks Library and Tape Tools utilities, user manuals and Windows drivers) Warranty Card, HP Data Protector Express Single Server Edition backup software, HP Data Protector Express Bare Metal Disaster Recovery option on CD-ROM, Performance Documentation and WORM Flyer.</p> <p>* NOTE: OD1 will appear after this part number on your sales order if factory integration into a server or rack-mount kit is indicated.</p>	A7518B*
SDLT 600 External	<p>Contains 1 external SDLT 600 tape drive, 1 power cord, SCSI terminator, 1 Super DLTtape II 600GB data cartridge, 1 Super DLTtape cleaning cartridge, 1 Ultra3/Ultra160 compliant SCSI cable, 68 VHDCI TO 68-PIN,HD,2.5M, HP StorageWorks Tape CD-ROM (contains HP StorageWorks Library and Tape Tools utilities, user manuals and Windows drivers) Warranty Card, HP Data Protector Express Single Server Edition backup software, HP Data Protector Express Bare Metal Disaster Recovery option on CD-ROM, Performance Documentation and WORM Flyer.</p>	A7519B

Options

SDLT 600 External (Int'l)	Contains 1 external SDLT 600 tape drive, SCSI terminator, 1 Super DLTtape II 600GB data cartridge, 1 Super DLTtape cleaning cartridge, 1 Ultra3/Ultra160 compliant SCSI cable, 68 VHDCI TO 68-PIN,HD, 2.5M, HP StorageWorks Tape CD-ROM (contains HP StorageWorks Library and Tape Tools utilities, user manuals and Windows drivers) Warranty Card, HP Data Protector Express Single Server Edition backup software, HP Data Protector Express Bare Metal Disaster Recovery option on CD-ROM.	A7520B
SDLT 320 Internal	Contains one SDLT 320 tape drive, 1 SDLT data cassette, 1 internal 2-Device Ribbon Cable with switchable LVD/SE Terminator, Warranty Card, User's Guide on CD, and Native Drivers on CD. <i>* NOTE: 0D1 will appear after this part number on your sales order if factory integration is indicated.</i>	257319-B21*
SDLT 320 External	Contains one SDLT 320 tape drive enclosed in an external housing, power cord, SCSI terminator, 1 SDLT data cassette, one external 6 Wide to VHDCI cable, Warranty Card, User's Guide on CD, and Native Drivers on CD.	257319-001
SDLT 320 External (Int'l)	Contains one SDLT 320 tape drive enclosed in an external housing, power cord, SCSI terminator, 1 SDLT data cassette, one external 6 Wide to VHDCI cable, Warranty Card, User's Guide on CD, and Native Drivers on CD.	257319-B31
SDLT 320 External (Japan)	Contains one SDLT 320 tape drive enclosed in an external housing, power cord, SCSI terminator, 1 SDLT data cassette, one external 6 Wide to VHDCI cable, Warranty Card, User's Guide on CD, and Native Drivers on CD.	257319-291

Technical Specifications

		SDLT 320	SDLT 600
Dimensions	Form Factor	5¼ inches Full-height	5¼ inches Full-height
	Physical (HxWxD) Internal	3.4 x 5.84 x 8.35 in (8.64 x 14.8 x 21.2 cm)	3.4 x 5.84 x 8.35 in (8.64 x 14.8 x 21.2 cm)
	Physical (HxWxD) External	6.5 x 6.89 x 12.6 in (16.5 x 17.5 x 32 cm)	6.5 x 6.89 x 12.6 in (16.5 x 17.5 x 32 cm)
	Shipping (HxWxD) Internal	14.5 x 13 x 11.85 in (36.83 x 33.02 x 30.1 cm)	14.5 x 13 x 11.85 in (36.83 x 33.02 x 30.1 cm)
	Shipping (HxWxD) External	17.13 x 19.75 x 13.25 in (43.5 x 50.17 x 33.66 cm)	17.13 x 19.75 x 13.25 in (43.5 x 50.17 x 33.66 cm)
Weight	Out of box Internal	5.25 lb (2.38 kg)	5.25 lb (2.38 kg)
	Out of box External	14 lb (6.35 kg)	14 lb (6.35 kg)
	Shipping Internal	13 lb (5.9 kg)	9 lb (3.77 kg)
	Shipping External	32 lb (14.5 kg)	21 lb (9.9 kg)
Capacity	Native	160 GB	300 GB
	Compressed (assumes 2:1 data compression)	320 GB	600 GB
	Buffer Size	64 MB	64 MB
Performance	Sustained Transfer Rate (native)	16 MB/s	36 MB/s
	Sustained Transfer Rate (with 2:1 data compression)	32 MB/s	72 MB/s
	Burst Transfer Rate	80 MB/s	160 MB/s
	Data Access Time	70 s	79 s
	Average Load Time	12 s formatted tape 40 s unformatted	12 s formatted tape 40 s unformatted
	Average Unload Time	12 s	19 s
	MTBF	250,000 hours at 100% duty cycle	250,000 hours at 100% duty cycle
Reliability	Uncorrected Error Rate	1x10 ¹⁷ bits read	1x10 ¹⁷ bits read
	Media Compatibility	Super DLTtape I DLTtape IV - read only SDLT 220	Super DLTtape II SDLT 320 SDLT 220
Tape Format	Recording Format	448 tracks serial serpentine	448 tracks serial serpentine
	Data Compression	DLZ	DLZ
	Data Encoding Method	Partial Response Maximum Likelihood (PRML)	Partial Response Maximum Likelihood (PRML)
Interface	SCSI Interface	LVD, Ultra 2 SCSI	Ultra 3 SCSI, LVD
	SCSI Connector	68-pin HD 68-pin HD	68-pin HD 68-pin HD
Power Specifications	Power Requirements	+5V, +12V	+5V, +12V
	Power Consumption	27 Watts (average read/write operation)	33 Watts (average read/write operation)

Technical Specifications

Environmental Specifications	Temperature	Operating	50° to 104° F (10° to 40° C)	50° to 104° F (10° to 40° C)
		Storage	-40° to 151° F (-40° to 66° C)	-40° to 151° F (-40° to 66° C)
	Non-Condensing Humidity	Operating	20% to 80%	20% to 80%
		Storage	10% to 95%	10% to 95%
Drive LED Indicators	Ready/Busy	On, the drive is ready for next command Flashing, drive is executing a command	On, the drive is ready for next command Flashing, drive is executing a command	
	Density Indication Attention	On, the tape is write protected. An error has occurred	On, the tape is write protected. An error has occurred	

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