Have feedback on QuickSpecs? We're listening

HPE Storage MSL Entry-level Tape Automation QuickSpecs

Compact, Efficient Data Protection.

Ideal for small and midsize businesses, the HPE Storage MSL Entry-Level Tape Automation delivers affordable, reliable tape automation in a compact 1U design. Offering up to 360 TB of compressed capacity at 2.5:1 with LTO technology, it simplifies backup and archiving while reducing manual effort.

Features like web-based management, encryption, and offline media protection ensure secure, long-term data retention.

Overview

HPE Storage MSL Entry-Level Tape Automation delivers reliable, cost-effective data protection for businesses requiring unattended backup, disaster recovery, or archival storage. Designed for small to medium-sized environments, the MSL 1/8 Tape Autoloader meets demanding long-term storage needs while offering investment protection and scalability as your data grows.

The MSL 1/8 Autoloader supports a wide range of capacity options with LTO-9 and LTO-8Ultrium tape drives, giving businesses flexibility to choose the right solution for their needs. Tool-free drive upgrades allow for easy capacity and performance enhancements, and drive kits can be seamlessly migrated to MSL2024, MSL3040, or MSL6480 libraries for expanded scalability and enterprise-class features. Media handling is streamlined with a standard barcode reader, configurable mail slot, and removable magazines for quick tape import/export. Optional encryption capabilities help protect sensitive data if a tape is lost or stolen.

HPE's Command View for Tape Libraries (CVTL), part of the HPE Storage Tape Library Management Software, simplifies the management of the MSL 1/8 Autoloader. Accessible via any web-based remote location, CVTL reduces the need for dedicated IT staff at remote offices, offering a centralized, user-friendly interface for efficient tape library administration. TapeAssure Advanced, a licensed feature of CVTL, provides advanced analytics and an intuitive dashboard for proactive monitoring of your tape library, drives, and media. It offers insights into utilization, operational performance, and health, helping administrators quickly identify and resolve potential issues before they affect operations.



HPE Storage MSL 1/8 G3 0-drive Tape Autoloader

What's New

- Get more without paying more with the addition of Multi-Factor Authentication (MFA) for advanced security
- HPE Smart Choice entry-level tape library models with LTO drive technology that can be quoted in minutes and shipped quickly through HPE Authorized Partners.

Overview

Key Features

- Exceptional storage density: 360 TB (2.5:1 compression using LTO-9 tape cartridges)
- Easy-to-use web-based remote management for multiple libraries with CVTL
- Integrated bar code reader
- Tool-free tape drive upgrades
- Leverage tape drives in a 1/8 Autoloader into an MSL2024, MSL3040 or MSL6480 for investment protection.
- Removable magazines with user-configurable mail slot
- Extensive OS and software compatibility testing
- Achieve the highest level of encryption security to secure confidential business information while meeting compliance guidelines with the HPE MSL Encryption Kit or KMIP 1.2 Encryption Key Manager License.
- Proactively monitor utilization, operational performance, and overall life and health of the drives and media with HPE StoreEver Autoloader Command View for Tape Libraries - TapeAssure Advanced, a licensed feature of CVTL.

Standard Features

MSL Entry-level Tape Automation	
	MSL 1/8 Tape Autoloader
Drive Technology Supported	LTO-9 Ultrium 45000 LTO-8 Ultrium 30750
Maximum Number of Drives	1
Maximum Capacity (2.5:1 compression)	360 TB (LTO-9, 8 slots)
Maximum Data Transfer (Native)	1 TB/hr (1 LTO-9 drive)
Drive Interface	8 GB/sec Native Fibre Channel 12 GB/sec SAS (LTO-9) 6 GB/sec SAS (LTO-8 and earlier)

HPE Command View for Tape Libraries

HPE Command View for Tape Libraries (CVTL), part of the HPE Storage Tape Library Management Software, provides an easy to use interface for efficiently managing, monitoring and configuring an entire tape library environment from any remote location.

HPE StoreEver Autoloader Command View for Tape Libraries - TapeAssure Advanced is a licensed feature of CVTL that provides predictive analytics on health, performance and utilization related monitoring of all tape drives and cartridges. As of CVTL v6.1, a new capacity planning feature has been added to CVTL which allows users to view consumption metrics which enables accurate and timely future investments. This can be trialed for free once the CVTL Software has been installed. Simply download CVTL from: HPE Command View for Tape Libraries | HPE Store US and get a 60 day instant-on period .

Easy Installation

The MSL 1/8 Autoloader can be installed in a variety of HPE racks by ordering the rack-mount kit (see the configuration information below for more detail). For more information on the HPE rack offerings, please see the following URL: Compute Products and Services | HPE

Proven Reliability

With a rating of 2,000,000 robot load/unload cycles, the MSL Tape Libraries provides necessary high reliability for today's demanding environment. To improve reliability and longevity, all HPE Ultrium products feature Data Rate Matching (DRM). This allows the tape drive to dynamically and continuously adjust the speed of the drive, to match the speed of the host or network. This increases performance, reduces mechanical wear on the tape drive and extends tape life.

Standard Features

Multi-Factor Authentication

Improving security has become increasingly important for businesses as ransomware attacks continue to escalate. Multi-Factor Authentication (MFA) provides complementary layers of defense and improves security by isolating, protecting, and segregating critical data from unauthorized access and potential threats. MFA strengthens login authentication methods to prevent unauthorized access to the tape library at no additional cost.

Disaster Recovery and Security

Removable media provides added protection by keeping archive data offline, safeguarding it from threats like viruses, hackers, and cyber-attacks. LTO-9and LTO-8Ultrium tape drives include hardware-based data encryption to prevent unauthorized access to data at rest. LTO-9 and LTO-8cartridges are available with write-once-read-many (WORM) capabilities to prevent accidental overwriting of data archived on the tape. Both WORM and hardware data encryption features help organizations to comply with increased data security regulations

Data Encryption

The HPE MSL Tape Automation offers multiple options for data encryption, depending on the requirements for policy, regulation, compliance, and centralized key management.

HPE MSL Encryption Kit

The HPE MSL Encryption Kit provides a library-enabled encryption solution that greatly enhances data privacy, confidentiality, and integrity of your critical business data while supporting compliance requirements. While there are a wide range of encryption solutions available, the HPE MSL Encryption Kit is intended to be an easy and affordable library-enabled solution for small businesses.

The encryption kit includes two USB key server tokens, product documentation, and firmware support. One encryption kit is needed per library and it must be physically accessible so that the USB token can be inserted into the automation device. The second token will be used as a backup token, in case the first one is lost or damaged. The USB key server token will plug into the USB port in the library and will generate and maintain encryption keys for the LTO-4 and later generation drives. The USB key server token uses a hardware random number generator, password authentication, and digital envelopes for strong encryption keys and security operations. The encryption kit provides a self-contained solution for autoloaders and MSL libraries with no additional software, PCs, or servers required or involved

KMIP

To meet requirements for larger scale encryption key managers, the HPE MSL Tape Libraries supports KMIP 1.2 compliant key managers. With the purchase of the KMIP Encryption License, the MSL 1/8 Tape Autoloader will be able to request encryption keys from KMIP 1.2 compliant key managers, for data encryption and key management.

For more information on all supported key management servers, please visit:
HPE Storage Single Point of Connectivity Knowledge - SPOCK

Serviceability

Modular in design, the MSL Tape Automation has easily replaceable components minimizing the Mean-Time-to-Repair on the unit. Replaceable components include the tape drive, the magazines, the power supply and the controller board. HPE Library and Tape Tools (L&TT) provides easy access to the MSL error log, generates support tickets, and enables firmware downloads. L&TT can be downloaded for free at: HPE Library and Tape Tools | HPE Store US

LTO Ultrium Technology

HPE LTO (Linear Tape Open) Ultrium Tape Drives use best of breed technology. By taking the best features from other tape technologies and combining them into a single new technology, Ultrium tape drives are in a league of their own. LTO technology is an open industry standard format; thus data written on HPE Ultrium Tape Drives can be interchanged directly with Ultrium Tape Drives from other vendors.

HPE LTO tape drives and automation products are founded on the LTO open standard and adhere to the published fourteen-generation LTO format roadmap.

The LTO standard for backward compatibility up to generation seven is to write back one generation and read back two generations. Eighth-generation LTO Ultrium drives read and write LTO -7 and LTO-8 media. Ninth-generation LTO Ultrium drives read and write LTO-8 and LTO-9 media.

As part of the LTO open standard, all HPE tape drives and media offer the same standards of compatibility with tape drives and media manufactured by other LTO vendors.

LTO-9 Media Initialization

Media initialization has been implemented in LTO-9 technology to optimize data placement on each LTO-9 cartridge. The initialization enables the tape drive to intelligently align data to a specific tape cartridge. Each new LTO-9 cartridge requires a one-time initialization prior to starting read/write operations. This initialization is only required for the first use of a new LTO-9 cartridge. Subsequent loads do not require additional initialization. The initialization process varies in time depending on the environmental conditions of tape and drive. Most initializations will complete within an hour; however, in some cases it can take up to 2 hours.

To help customers complete this one-time initialization of new LTO-9 media in tape libraries, the MSL 1/8 Autoloader provides an “LTO-9 New Media Initialization Wizard” feature which will guide the user through an automated process to load uninitialized media into LTO-9 tape drives to facilitate the completion of the LTO-9 media initialization process.

For more information, please reference the MSL 1/8 Autoloader User Guides.

Data Rate Matching

Data Rate Matching combines sophisticated buffer management with variable tape drive motor speeds to match the tape drive transfer rate to the host output. This feature ensures that the tape drive continues to stream data regardless of the environment, and brings three big advantages:

- It optimizes performance and maximizes overall efficiency, allowing the drive to respond immediately to any data speed changes from the host.
- It minimizes rewinding and repositioning of the tape, significantly reducing physical wear and increasing reliability.
- It minimizes the power requirements for the drive by reducing the number of repositions needed.

Standard Features

LTO Ultrium Tape Drive	ATS data transfer rate range (native)
HPE LTO-9 Ultrium 45000	101 to 300 MB/s
HPE LTO-8 Ultrium 30750	101 to 300 MB/s

HPE Ultrium WORM

Critical to the success of data retention policies in highly regulated environments is the ability to store and manage data in an unalterable state. Following stringent guidelines set forth by regulatory agencies such as the SEC and HIPPA, IT organizations must now integrate new solutions and policies that can verify the integrity of stored data for periods that can extend well beyond seven years. Every generation of LTO Ultrium tape drives feature the ability to archive and store data in a read-only, non-rewriteable format that meets the most stringent regulatory guidelines. Using a combination of integrated fail-safe features in the drive firmware, cartridge memory, and tape formatting, LTO Ultrium provides the ability to archive large amounts of data for periods of up to 30 years in a secure, untampered state. All generation Ultrium tape drives include support for rewritable media and WORM media, for a secure, long-term archiving solution into any data protection strategy. LTO Ultrium WORM provides the following advantages:

- A single drive to support all backup and archiving needs
- Two distinctive tape cartridges to easily distinguish and manage both rewriteable and WORM data cartridges
- A specially designed WORM data cartridge with multiple integrated fail-safe features to prevent accidental or intentional overwriting of data
- High-capacity, low-cost HPE WORM media that can store up to 45 TB (2.5:1 compression) of data on a single LTO-9 data cartridge
- Support from many backup and archiving software vendors, providing the most comprehensive and mainstream support in the industry
- The LTO open standard that offers greater choice and compatibility across all LTO Ultrium products

Notes: While all HPE LTO Ultrium tape drives support LTO Ultrium WORM media, some LTO Ultrium tape drives from other manufacturers may not include read and write support for LTO Ultrium WORM media. For non-HPE LTO Ultrium tape drives, please check the manufacturers' specifications to ensure this support is provided if you are using your WORM media. If WORM support is not provided, the drive will eject the WORM tape cartridge immediately upon insertion into the tape drive

Longevity

Organizations need to be confident that their data in archive is still there when they need it. LTO tape media is specified with a 30 year shelf life, if stored at the “Archival Life Recommended Storage” conditions. HPE TapeAssure Advanced also analyses the results of every tape use to ensure the availability of data placed in long-term storage, archive or DR.

Standard Features

HPE Library and Tape Tools

The MSL 1/8 Tape Autoloader is supported with HPE Library and Tape Tools (L&TT). L&TT is a free diagnostic tool for all of the HPE tape storage products. This robust diagnostic tool is designed for both the experienced professional and the untrained administrator, and it allows customers to verify the installation, ensure product reliability, perform diagnostics and achieve faster resolution of tape device issues. L&TT performs firmware upgrades, verification of device operation, failure analysis and a range of utility functions. Performance tools assist in troubleshooting issues and system configuration checks warn of common host issues. It also provides seamless integration with HPE support by generating and e-mailing test results and support tickets. HPE Support will require the use of L&TT to troubleshoot most device issues, so it is recommended that a support ticket is pulled and the device assessment test is run before calling.

For more information on L&TT, please visit: HPE Library and Tape Tools | HPE Store US .

HPE Storage Media

HPE branded Linear Tape Open (LTO) Ultrium cartridges are designed, manufactured and tested to provide outstanding reliability for backing up, archiving and restoring your data. We continuously monitor the quality of our branded tapes using what we believe is the industry's most comprehensive and forensic specification for quality and reliability. Using real life conditions and both HPE and non-HPE drives, we supplement extensive in-process QA parametric testing with ongoing drive-based scrutiny, to make sure performance is excellent for any combination of device, duty cycle and environment.

Because HPE is a leading supplier of both LTO tape devices and media, we have the ability to re-create many different scenarios mirroring how customers use their cartridges. And many of the HPE protocols are either unique in nature or scale, such as the HPE 'Green Tape', and HPE 'Environmental Interchange' tests, or far surpass industry standards, for example, The HPE 'Locate/Rewind/Append' test. Since the beginning of 2016, almost 700 million meters of media have been pulled and over 40 million gigabytes of data have been written in the HPE demanding Green Tape Testing (GTT) protocol. All of these ongoing tests are intended to ensure HPE LTO Ultrium media is the most reliable you can find. Your best choice for ease of support and maximum dependability is to use HPE-branded Ultrium cartridges at all times.

Factory Express Portfolio for Servers and Storage

HPE Factory Express offers configuration, customization, integration and deployment services for HPE servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed. Customization must comply with all relevant product specifications and factory supported configurations. Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HPE products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE ProLiant Server Blades, HPE BladeSystem, and HPE 9000 servers as well as MSA, VA7xxx, EVA, and XP disk arrays, rack able tape libraries and configurable network switches.

The type of service support varies by platform and product family. For more information on Factory Express services for your specific server model or storage device please contact your sales representative or go to:
HPE Factory Express Integration Services: Custom IT, Data Center & Server Solutions | HPE .

Standard Features

Compatibility

The HPE extensive compatibility testing program assures that your HPE MSL Tape Libraries and Autoloaders work with leading servers, operating systems, and backup applications - and not just those sold by HPE. The MSL libraries 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 the MSL tape automation, check the HPE Storage Compatibility Matrix at: HPE Storage Single Point of Connectivity Knowledge - SPOCK

Service and Support

For the most up-to-date information on HPE Services, please refer to the HPE Services – Supplemental QuickSpecs, which provides a comprehensive and regularly updated overview of available services.

Configuration Information

Step 1 - Select Base Tape Automation

HPE Storage MSL Tape Automation

Description	SKU
HPE Storage MSL 1/8 Gen3 0-drive Tape Autoloader	R1R75B

Notes:
- Includes 8 slots, zero drives.
- This product is TAA (Trade Agreements Act) compliant.

Kit Contents (for each autoloader):
- One 2.5M PDU Power Cord, C13/C14, 10A (part number 142263-002)
- One RJ-45 Ethernet cable

Factory Racking

Factory integrate the 1/8 Tape Autoloader with other HPE products such as HPE ProLiant Servers	#0D1

Notes: #0D1 will appear after the Tape Library part number on the sales order if HPE factory integration is indicated.

Step 2 - Select Generation of Ultrium Tape Drives

Notes: Drive Upgrade Kits are hot-replaceable. The drives should be powered down before removal, but the library doesn't need to be powered down to replace them.

Select each option as required with quantities specified

Tape Drives

Description	SKU
HPE StoreEver MSL LTO-9 Ultrium 45000 Fibre Channel Drive Upgrade Kit	R6Q74A

Notes:
- Half height LTO-9 FC tape drive. For use with the MSL 1/8 Autoloader, MSL2024, MSL3040 or MSL6480 libraries. Drive kit includes a tape drive and documentation.
- #0D1 will appear after R6Q74A on the sales order if HPE factory integration is indicated.
- Tape Drive Upgrade Kits can only be factory integrated (#0D1) into the Autoloader when the Autoloader is factory integrated (#0D1) into a rack. If the autoloader has not been ordered for integration into a rack, then the Upgrade Kits and Autoloader will ship as standalone and the drive installed at the customer site
- (2) LC Optical Fiber Channel Connector
- (1)RJ-45 Ethernet data verification port
- This product is TAA (Trade Agreements Act) compliant.

HPE StoreEver MSL LTO-9 Ultrium 45000 SAS Drive Upgrade Kit	R6Q75A

Notes:
- Half height LTO-9 SAS tape drive. For use with the MSL 1/8 Autoloader, MSL2024, MSL3040 or MSL6480 libraries. Drive kit includes a tape drive and documentation.
- #0D1 will appear after R6Q75A on the sales order if HPE factory integration is indicated.

Configuration Information

- Tape Drive Upgrade Kits can only be factory integrated (#0D1) into the Autoloader when the Autoloader is factory integrated (#0D1) into a rack. If the autoloader has not been ordered for integration into a rack, then the Upgrade Kits and Autoloader will ship as standalone and the drive installed at the customer site
- (2) Mini-SAS HD (SFF8644) Connectors
- (1)RJ-45 Ethernet data verification port
- This product is TAA (Trade Agreements Act) compliant.

Description	SKU
HPE StoreEver MSL LTO-8 Ultrium 30750 FC Drive Upgrade Kit	Q6Q67A

Notes:

- Half height LTO-8 FC tape drive. For use with the MSL 1/8 Autoloader, MSL2024, MSL3040 or MSL6480 libraries. Drive kit includes a tape drive and documentation.
- #0D1 will appear after Q6Q67A on the sales order if HPE factory integration is indicated.
- Tape Drive Upgrade Kits can only be factory integrated (#0D1) into the Autoloader when the Autoloader is factory integrated (#0D1) into a rack. If the autoloader has not been ordered for integration into a rack, then the Upgrade Kits and Autoloader will ship as standalone and the drive installed at the customer site
- (2) LC Optical Fiber Channel Connectors
- (1)RJ-45 Ethernet data verification port
- This product is TAA (Trade Agreements Act) compliant.

HPE StoreEver MSL LTO-8 Ultrium 30750 SAS Drive Upgrade Kit	Q6Q68A

Notes:

- Half height LTO-8 SAS tape drive. For use with the MSL 1/8 Autoloader, MSL2024, MSL3040 or MSL6480 libraries. Drive kit includes a tape drive and documentation.
- #0D1 will appear after Q6Q68A on the sales order if HPE factory integration is indicated.
- Tape Drive Upgrade Kits can only be factory integrated (#0D1) into the Autoloader when the Autoloader is factory integrated (#0D1) into a rack. If the autoloader has not been ordered for integration into a rack, then the Upgrade Kits and Autoloader will ship as standalone and the drive installed at the customer site
- (2) Mini-SAS (SFF8644) Connectors
- (1)RJ-45 Ethernet data verification port
- This product is TAA (Trade Agreements Act) compliant.

Step 3 - Select Software Licenses

TapeAssure Advanced

Description	SKU
HPE StoreEver Autoloader Command View for Tape Libraries - TapeAssure Advanced LTU	TC407A

Notes:

- Advanced analytics feature makes use of predictive analytics to predict the likelihood of failures, bottlenecks and load balancing issues in the tape infrastructure. It has unique capabilities of analytics around drive health and life as well as cartridge health and life.
- One license needed per library and Command View TL must be installed.
- This is a paper license that will be mailed.

Configuration Information

Description	SKU
HPE StoreEver Autoloader Command View for Tape Libraries - TapeAssure Advanced E-LTU	TC407AAE

Notes:

- HPE StoreEver TapeAssure Advanced Software provides advanced analytics for predictive analysis the likelihood of failures, bottlenecks and load balancing issues in the tape infrastructure. It has unique capabilities of analytics around drive health and life as well as cartridge health and life.
- One license needed per library and Command View TL must be installed.
- This is an electronically delivered License.

Encryption Options/Licenses

Description	SKU
HPE StoreEver 1/8 G2 Tape Autoloader and MSL Tape Library Encryption Kit	AM495A

Notes: For use with new or installed LTO-9 and LTO-8 for 1/8 Tape Autoloader G2/G3, MSL2024, MSL3040 or MSL6480 Tape Libraries. The Encryption Kit key server token generates and retains encryption keys for above LTO Tape drives in the library. Does not require support from ISV.

HPE StoreEver MSL2024 KMIP Encryption LTU	TC468A

Notes:

- For use with MSL 1/8 Tape AutoloaderG2/G3 or MSL2024 Tape libraries using LTO-9 or LTO-8tape drives. The license will enable secure connectivity with supported KMIP 1.2 compliant key management servers. See the HPE Storage Compatibility Matrix (Formerly EBS) for the list of supported servers.
  HPE Storage Single Point of Connectivity Knowledge - SPOCK
- This license will be delivered via hard copy in the mail.

HPE StoreEver MSL2024 KMIP Encryption E-LTU	TC468AAE

Notes:

- For use with MSL 1/8 Tape Autoloader G2/G3 or MSL2024 Tape libraries using LTO-9or LTO-8tape drives. The license will enable secure connectivity with supported KMIP 1.2 compliant key management servers. See the HPE Storage Compatibility Matrix (Formerly EBS) for the list of supported servers.
  HPE Storage Single Point of Connectivity Knowledge - SPOCK
- This license will be delivered electronically.

Step 4 - Select Additional Accessories

Regional Power Cords (Quantity 1 each)

Notes: One PDU power cord is shipped per library. IF not using the included PDU cord mentioned above (part number 142263-002) please select the correct power cord for your geographical location below.

Description	SKU
HPE C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556A
HPE C13 - CEE-VII EU 250V 10Amp 1.83m Power Cord	AF568A
HPE C13 - BS-1363A UK/HK/SG 250V 10Amp 1.83m Power Cord	AF570A

Configuration Information

Description	SKU
HPE C13 - DK-2.5A DK 250V 10Amp 1.83m Power Cord	AF566A
HPE C13 - SEV 1011 CH 250V 10Amp 1.83m Power Cord	AF565A
HPE C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord	AF567A
HPE C13 - CNS-690 TW 110V 13Amp 1.83m Power Cord	AF561A
HPE C13 - GB-1002 CN 250V 10Amp 1.83m Power Cord	AF557A
HPE C13 - JIS C8303 JP 100V 12Amp 2.0m Power Cord	AF572A
HPE C13 - AS3112-3 AU 250V 10Amp 2.5m Power Cord	AF569A
HPE C13 - IRAM -2073 AR 250V 10A 2.5m Power Cord	AF558A
HPE C13 - Nema 5-15P TH/PH 250V 10Amp 1.83m Power Cord	AF559A
HPE C13 - KSC- 8305 KR 250V 10Amp 1.83m Power Cord	AF560A
HPE C13 - SI-32 IL 250V 10Amp 1.83m Power Cord	AF564A
HPE C13 - IS-1293 IN 240V 6Amp LV 2.0m Power Cord	AF562A

Notes: Warning This product can ONLY be used with an HPE approved power cord for your specific geographic region. Use of a non-HPE approved power cord may result in: 1) not meeting individual country specific safety requirements; 2) insufficient conductor ampacity that could result in overheating with potential personal injury and/or property damage; and 3) an unapproved power cord could fracture resulting in the internal contacts being exposed, which potentially could subject the user to a shock hazard. HPE disclaims all liability in the event a non-HPE approved power cord is used.

Related Options

Magazine Kits

Description	SKU
HPE Storage MSL 1/8 Autoloader G3 Right Magazine Kit	AH167B
Notes: The MSL 1/8 Autoloader comes standard with a right and left magazines. For use only on the right side of the MSL 1/8 Autoloader; additional 4-slot magazine.	
HPE Storage MSL 1/8 Autoloader G3 Left Magazine Kit	AH862B
Notes: The MSL 1/8 Autoloader comes standard with a right and left magazine. For use only on the left side of the 1/8 Autoloader; additional 4-slot magazine which includes an import/export slot.	

Factory Racking

Factory integrate the 1/8 G2 Tape Autoloader with other HPE products such as HPE ProLiant Servers.	#0D1
Notes: #0D1 will appear after the part number on the sales order if HPE factory integration is indicated.	

Rack Kit

Description	SKU
HPE StoreEver 1/8 G2 Tape Autoloader Rack Kit	AH166A
Notes: Supports either G2 or G3 versions of the 1/8 Autoloader. Required to install the unit in a standard 19-inch rack; includes rails and rackmount instructions	

Rack Cabinets

The MSL libraries are supported in a variety of HPE Rack offerings, including the HPE Intelligent Series Racks and the HPE 10000 G2 Series Racks. For more information on the HPE rack offerings, please see the following URL:
Rack and Power Products for Servers & Data Center Infrastructure | HPE
Notes: The MSL Tape Libraries are certified to ship in HPE racks which include a shock pallet. It is mandatory to use a shock pallet in order to ship racks with equipment installed.

FC and SAS Host Bus Adapters

The MSL Tape Automation products are certified with a number of Fibre Channel and SAS Host Bus Adapters. For the most current list of supported FC and SAS HBAs, please reference the HPE StoreEver Compatibility:
HPE Storage Single Point of Connectivity Knowledge - SPOCK

For more information on FC HBAs, see HPE StoreFabric Adapters at:
HPE Storage Area Networking Solutions | HPE

For more information on HPE Smart Array RAID controllers, see Fibre HPE P-class RAID controllers at:
Smart Array Controllers and Smart Host Bus Adapters | HPE Store US

For more information on HPE ProLiant (SAS) host bus adapters, see H-class HBA controllers at:
Smart Array Controllers and Smart Host Bus Adapters | HPE Store US

Related Options

HBAs and SAS Controllers

Description	SKU
HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller	804405-B21
Notes: Recommended for ProLiant Gen10 SAS tape automation connect	
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21
Notes: Recommended for ProLiant Gen10 SAS tape automation connect	
Microsemi Adaptec HBA 1100-8e	A1100-8E
Notes: Recommended SAS HBA for DL & ML Gen9 servers only. HPE does not provide official support for this adapter, however the configuration is supported.	

Media

Description	SKU
HPE LTO-9 Ultrium 45TB RW Data Cartridge	Q2079A
HPE LTO-9 Ultrium 45TB RW 960 Data Cartridge Pallet without Cases	Q2079AB
HPE LTO-9 Ultrium 45TB RW 960 Data Cartridge Pallet with Cases	Q2079AD
HPE LTO-9 Ultrium 45TB RW 20 Data Cartridges Library Pack without Cases	Q2079AH
HPE LTO-9 Ultrium 45TB WORM Data Cartridge	Q2079W
HPE LTO-9 Ultrium 45TB WORM Custom Labeled 20 Data Cartridges with Cases	Q2079WL
HPE LTO-8 Ultrium 30TB RW Data Cartridge	Q2078A
HPE LTO-8 Ultrium 30TB WORM Data Cartridge	Q2078W
HPE LTO-7 Ultrium No Case 960 Tape Pallet	C7977AB
HPE LTO-7 Ultrium RW 960 Tape Pallet	C7977AD
HPE LTO-7 Ultrium 15TB Eco Case Data Cartridge 20 Pack	C7977AH
HPE LTO-7 Ultrium WORM Data Cartridge	C7977W
HPE LTO-6 Ultrium 6.25TB RW Data Cartridge	C7976A
HPE LTO-6 Ultrium 6.25TB RW 960 Data Cartridge Pallet with Cases	C7976AD
HPE LTO-6 Ultrium 6.25TB BaFe WORM Data Cartridge	C7976BW
HPE LTO-6 Ultrium 6.25TB WORM Data Cartridge	C7976W
HPE LTO-5 Ultrium 3TB RW Data Cartridge	C7975A
HPE Ultrium Universal Cleaning Cartridge	C7978A

Bar Code Labels

Notes: Label packs include 100 data and 10 cleaning tape labels

HPE LTO-9 Ultrium RW Bar Code Label Pack	Q2017A
HPE LTO-8 Ultrium RW Bar Code Label Pack	Q2015A
HPE LTO-7 Ultrium RW Bar Code Label Pack	Q2014A
HPE LTO-6 Ultrium RW Bar Code Label Pack	Q2013A

Related Options

Non-Custom Labeled Data Cartridges

Notes: Non-Custom labels will come pre-labeled with a pre-determined number sequence.

Description	SKU
HPE LTO-9 Ultrium 45TB RW Non Custom Labeled 20 Data Cartridges with Cases	Q2079AN
HPE LTO-8 Ultrium 30TB RW Non Custom Labeled Library Pack 20 Data Cartridges with Cases	Q2078AN
HPE LTO-7 Ultrium RW No Case Custom Labeled Data Cartridge 20 Pack	C7977AC
HPE LTO-7 Ultrium Non Custom Labeled Data Cartridge 20 Pack	C7977AN
HPE LTO-6 Ultrium 6.25TB RW Non Custom Labeled 20 Data Cartridges with Cases	C7976AN
HPE LTO-6 Ultrium 6.25TB BaFe RW Non Custom Labeled Data Cartridges 20 Pack	C7976BN

Custom labeled Data Cartridges

Notes: Custom labeled products allow customers to customize a specific sequence printed on each label.

HPE LTO-9 Ultrium 45TB RW Custom Labeled Library Pack 20 Data Cartridges without Cases	Q2079AC
HPE LTO-9 Ultrium 45TB RW Custom Labeled 20 Data Cartridges with Cases	Q2079AL
HPE LTO-8 Ultrium 30TB RW Custom Labeled Library Pack 20 Data Cartridges with Cases	Q2078AL
HPE LTO-8 Ultrium 30TB WORM Custom Labeled 20 Data Cartridges with Cases	Q2078WL
HPE LTO-8 Ultrium 30TB RW Custom Labeled Library Pack 20 Data Cartridges without Cases	Q2078AC
HPE LTO-7 Ultrium 15 TB RW RFID Custom Labeled Data Cartridge (20 pack)	7977AF
HPE LTO-7 Ultrium RW Custom Labeled Data Cartridge 20 Pack	C7977AL
HPE LTO-7 Ultrium WORM Custom Labeled Data Cartridge 20 Pack	C7977WL
HPE LTO-6 Ultrium 6.25TB RW Custom Labeled 20 Data Cartridges with Cases	C7976AL

Optical cables

OM4 LC-LC type cables

Description	SKU
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 50m Cable	QK737A

Allowed cable lengths				
External Cable type	**Drive type**	**2Gb**	**4Gb**	**8Gb**
OM2	All drive types	0.5m - 300m	0.5m - 150m	NA
OM3/OM4	All drive types	0.5m - 500m	0.5m - 380m	0.5m - 150m

Related Options

Cable Kits (SAS)

Description	SKU
HPE External 2.0m (6ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	716197-B21
Notes: One cable is required for every LTO-9 tape drive. Use this cable to connect HPE MSL SAS Tape Libraries to Storage HBAs with Mini SAS High Density (HD) SAS (SFF8644) ports.	
HPE External 4.0m (13ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	716199-B21
Notes: One cable is required for every LTO-9 tape drive. Use this cable to connect HPE MSL SAS Tape Libraries to Storage HBAs with Mini SAS High Density (HD) SAS SAS (SFF8644) ports.	
HPE External 12Gb Mini SAS High Density to Mini SAS High Density 4-lane 2m Fanout Cable	P35176-B21
Notes: One cable can connect up to four LTO-9 tape drives. Use this cable to connect HPE MSL SAS Tape Libraries to Storage HBAs with Mini SAS High Density (HD) SAS (SFF8644) ports.	
HPE External 12Gb Mini SAS High Density to Mini SAS High Density 4-lane 4m Fanout Cable	P35175-B21
Notes: One cable can connect up to four LTO-9 tape drives. Use this cable to connect HPE MSL SAS Tape Libraries to Storage HBAs with Mini SAS High Density (HD) SAS (SFF8644) ports.	
HPE 2.0m External Mini SAS High Density to Mini SAS Cable	716191-B21
Notes: One cable is required for every (non LTO-9) tape drive. Use this cable to connect HPE MSL SAS Tape Libraries to Storage HBAs with Mini SAS High Density (HD) SAS (SFF8644) ports.	
HPE 4.0m External Mini SAS High Density to Mini SAS Cable	716193-B21
Notes: One cable is required for every (non LTO-9) tape drive. Use this cable to connect HPE MSL SAS Tape Libraries to Storage HBAs with Mini SAS High Density (HD) SAS (SFF8644) ports.	
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2m Cable	K2R09A
Notes: One cable can connect up to four (non LTO-9) tape drives. Use this cable to connect HPE MSL SAS Tape Libraries to Storage HBAs with Mini SAS High Density (HD) SAS (SFF8644) ports.	
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 4m Cable	K2R10A
Notes: One cable can connect up to four (non LTO-9) tape drives. Use this cable to connect HPE MSL SAS Tape Libraries to Storage HBAs with Mini SAS High Density (HD) SAS (SFF8644) ports.	

Pre-Configured Models

HPE Smart Choice purchase program

The HPE Smart Choice purchase program features popular fully configured products that can be quoted in minutes and shipped quickly through HPE Authorized Partners. Products are configured and tested in an HPE factory and stocked at HPE Authorized Distributors and Partners. The products arrive in a single box, making onsite integration easier and more efficient for partners and customers. Additionally, there are aggressively priced HPE Tech Care Services available only through the HPE Smart Choice program when you purchase an HPE Smart Choice product.

For HPE Smart Choice configuration and product details, please visit HPE Smart Choice Purchase Program – Supplemental QuickSpecs.

Pre-Configured models ship with the configurations below

- Pre-Configured models ship with the configurations below.
- HPE does not allow factory integration of options into pre-configured models.

Sku Number	Model Name	Part Description
P84143-B25	HPE Storage MSL 1/8 Tape Autoloader 1x MSL LTO-8 Fibre Channel 5x LTO-8 30TB Data Cartridges	(1) HPE Storage MSL 1/8 G3 0-drive Tape Autoloader (1) HPE StoreEver 1/8 G2 Tape Autoloader Rack Kit (1) HPE StoreEver MSL LTO-8 Ultrium 30750 FC Drive Upgrade Kit (5) HPE LTO-8 Ultrium 30TB RW Data Cartridge (1) HPE LTO-8 Ultrium RW Bar Code Label Pack
P84145-B25	HPE Storage MSL 1/8 Tape Autoloader 1x MSL LTO-9 Fibre Channel 5x LTO-9 45TB Data Cartridges	(1) HPE Storage MSL 1/8 G3 0-drive Tape Autoloader (1) HPE StoreEver 1/8 G2 Tape Autoloader Rack Kit (1) HPE StoreEver MSL LTO-9 Ultrium 45000 FC Drive Upgrade Kit (5) HPE LTO-9 Ultrium 45TB RW Data Cartridge (1) HPE LTO-9 Ultrium RW Bar Code Label Pack
P84148-B25	HPE Storage MSL 1/8 Tape Autoloader 1x MSL LTO-9 SAS Drive 5x LTO-9 45TB Data Cartridges	(1) HPE Storage MSL 1/8 G3 0-drive Tape Autoloader (1) HPE StoreEver 1/8 G2 Tape Autoloader Rack Kit (1) HPE StoreEver MSL LTO-9 Ultrium 45000 SAS Drive Upgrade Kit (5) HPE LTO-9 Ultrium 45TB RW Data Cartridge (1) HPE LTO-9 Ultrium RW Bar Code Label Pack
P77035-B25	HPE Storage MSL 1/8 Tape Autoloader 1x MSL LTO-8 SAS Drive 5x LTO-8 30TB Data Cartridges	(1) HPE Storage MSL 1/8 G3 0-drive Tape Autoloader (1) HPE StoreEver 1/8 G2 Tape Autoloader Rack Kit (1) HPE StoreEver MSL LTO-8 Ultrium 30750 SAS Drive Upgrade Kit (5) HPE LTO-8 Ultrium 30TB RW Data Cartridge (1) HPE LTO-8 Ultrium RW Bar Code Label Pack

Technical Specifications

		1/8 Tape Autoloader
Drive Technology		LTO-9 Ultrium 45000 LTO-8 Ultrium 30750
Maximum Number of Drives		1
Number of Slots		8
Drive Interface		8 GB/sec Native Fibre Channel 12 GB/sec SAS (LTO-9) 6 GB/sec SAS (LTO-8 and earlier)
Maximum Capacity	**Native**	144 TB (LTO-9) 96 TB (LTO-8)
	Compressed (2.5:1)	360 TB (LTO-9) 240 TB (LTO-8)
Maximum Transfer Rate	**Native**	1.08 TB/hr (1x LTO-9) 1.08 TB/hr (1x LTO-8)
Dimensions	**Out-of-Box (HxWxD)**	1.7 x 19 x 31.9 in (4.4 x 48.2 x 80.9 cm)
	Shipping (HxWxD)	10 x 23 x 39 in (25 x 58 x 99 cm)
Weight	**Out of box**	26.5 lb (12 kg)
	Shipping	30.9 lb (14 kg)
Notes: The weight of each library varies somewhat based on the typeof LTO tape drive contained in the configuration.		
Reliability	MSBF (mean swaps between failures)	2 million robot load/unload cycles
	MTBF (mean time between failures)	100,000 hours (based on 1M MSBF)
Average Cartridge Swap Time (drive to slot, slot to drive)	34 seconds	
Initialization Time	76 seconds	
Inventory Time	52 seconds (using bar code labeled cartridges)	
Connectors	Mini-SAS (MSL SAS LTO-8 and earlier models only) Mini-SAS HD (MSL SAS LTO-9 model only) LC Optical Fibre (MSL FC models only) (1) RJ-45 Ethernet autoconfiguring 10BASE-Te, 100BASE-TX, 1000BASE-T (1) USB 2.0 port	

Technical Specifications

LED Indicators (on front panel)	Ready LED (Green): shows ready status information Clean LED (Amber): shows fault status information Attention LED (Amber): shows fault status information Error LED (Amber): shows fault status information	
Management Interface	10/100/1000 Mbits/sec, auto-configuring interface. https connection required.. Web Based Remote Management Interface (RMI) over ethernet port supporting HTTPS	
Power	80 Watts (max)	
Input Requirements	100 - 240V AC, 1100 - 550mA, 50/60Hz	
Relative Humidity (non-condensing)	**Operating**	20% to 80%
	Shipping	20% to 90%
Temperature Range (wet bulb)	**Operating (LTO-8)**	5°C to 40°C
	Operating (LTO-9)	59° to 89° F (15° to 32° C)
	Shipping	-40°C to 60°C
	Notes: Library operating temperature limits are based on the industry standard tape limit.	
Altitude	**Operating**	13,000 ft (4000 m)
	Shipping	35,000 ft (10,675 m)

Summary of Changes

Date	Version History	Action	Description of Change
03-Aug-2026	Version 92	Changed	Removed references to LTO-7 drive technology from product positioning, supported drive configurations, and technical content. The document now focuses on LTO-9 and LTO-8 solutions, with legacy LTO-7 media options retained where applicable for compatibility purposes
		Removed	Obsolete or not supported SKUs removed - N7P37A, C7975AN
13-Oct-2025	Version 91	Changed	Overview section was updated – Product image was updated. Service and Support section was updated – Several links for services were updated. Pre-Configured Models section was updated - HPE Smart Choice purchase program information was updated.
		Removed	C7976B, C7975A, AN975A, AN976A
02-Sep-2025	Version 90	Changed	Pre-Configured Models section was updated - HPE Smart Choice purchase program information was added Technical Specification section was updated- Technical features information was updated
14-Jul-2025	Version 89	Changed	Related Options section was updated - Pre-Configured Tape Storage - HPE Smart Choice purchase program information was added.
02-Jun-2025	Version 88	Changed	Overview, Standard Features, Service and Support, Configuration Information, Related Options, and Technical Specifications sections were updated Rebranding and removing 2024 to put in separate QS upon its launch
03-Feb-2025	Version 87	Changed	Related Options section was updated
02-Dec-2024	Version 86	Changed	Overview, Standard Features and Configuration Information sections were updated
15-Jul-2024	Version 85	Changed	Overview, Standard Features, Service and Support, Configuration Information, Related Options, and Technical Specifications sections were updated
06-May-2024	Version 84	Changed	Standard Features, Related Options, and Technical Specifications sections were updated Obsolete SKUs were removed
22-Jan-2024	Version 83	Changed	Standard Features, Service and Support, Configuration Information and Related Options sections were updated
04-Dec-2023	Version 82	Changed	HPE Services Rebranding Obsolete SKU was removed
11-Sep-2023	Version 81	Changed	Overview, Service and Support, and Technical Specifications sections were updated
07-Aug-2023	Version 80	Changed	Overview, Standard Features, Service and Support and Related Options sections were updated
24-Jul-2023	Version 79	Changed	Overview, Standard Features, Service and Support, Configuration Information, Related Options, and Technical Specifications sections were updated

Summary of Changes

Date	Version History	Action	Description of Change
06-Feb-2023	Version 78	Changed	Service and Support section was updated
05-Dec-2022	Version 77	Changed	Related Options section was updated
03-Oct-2022	Version 76	Changed	Configuration Information, Related Options and Technical Specifications sections were updated. Obsolete SKU - AE470A was removed
18-Apr-2022	Version 75	Changed	Technical Specifications section was updated
07-Feb-2022	Version 74	Changed	Standard Features and Related Options sections were updated
10-Jan-2022	Version 73	Changed	Overview, Standard Features, Configuration Information, Related Options, and Technical Specifications sections were updated
15-Sep-2021	Version 72	Changed	Standard Features and Service and Support sections were updated.
17-May-2021	Version 71	Changed	Overview and Configuration Information sections were updated.
07-Dec-2020	Version 70	Changed	Configuration Information section was updated.
05-Oct-2020	Version 69	Changed	Configuration Information section was updated.
08-Sep-2020	Version 68	Changed	Configuration Information section was updated.
17-Aug-2020	Version 67	Changed	Configuration Information section was updated.
09-Dec-2019	Version 66	Changed	Related Options section was updated.
15-Apr-2019	Version 65	Changed	Configuration Information section was updated.
02-Apr-2019	Version 64	Changed	Standard Features was updated.
04-Mar-2019	Version 63	Changed	Standard Features, Configuration Information and Related Options sections were updated.
04-Feb-2019	Version 62	Changed	Overview, Product Highlights, Service and Support, Configuration Information, Related Options, Technical Specifications sections were updated.
01-Oct-2018	Version 61	Changed	Product Highlights section was updated.
04-Jun-2018	Version 60	Changed	Note for the HPE 1/8 G2 Tape Autoloader and MSL Tape Library Encryption Kit was revised.
05-Mar-2018	Version 59	Changed	Product Highlights and Related Options were revised.
05-Feb-2018	Version 58	Changed	Product Highlights, Configuration Information, Related Options, and Technical Specifications were revised.
04-Dec-2017	Version 57	Changed	LTO-8 updates.
04-Sep-2017	Version 56	Changed	Changes made throughout the QuickSpecs.
07-Aug-2017	Version 55	Changed	Changes made to the Service and Support and Product Highlights
17-Feb-2017	Version 54	Changed	LTO-7 information included
13-Jan-2017	Version 53	Changed	Changes to the HPE StoreEver Archive Manager section
18-Nov-2016	Version 52	Changed	Added the HPE StoreEver Archive Manager in the Product Highlights section
30-Sep-2016	Version 51	Changed	Changes made throughout the QuickSpecs
15-Aug-2016	Version 50	Changed	Changes made to the Configuration Info Section
29-Jul-2016	Version 49	Changed	Changes made to the Related Options and Configuration Information Sections
31-Mar-2016	Version 48	Changed	Updated HPE rebranding, part no corrections and FIPS 140-2 support information for Fusilli launch.
15-Jan-2016	Version 47	Changed	Updated Links to HPE.com and content edits

Summary of Changes

Date	Version History	Action	Description of Change
01-Dec-2015	Version 46	Changed	Changes made throughout the QuickSpecs.
03-Apr-2015	Version 45	Changed	Deleted portions related to MSL library Extenders as they are no longer valid.
30-Jan-2015	Version 44	Changed	Removed SKUs that are going EOL. Updated naming on a few SKUs. Changes made to the Related Options, Config Info, Product Highlights and Overview Sections.
31-Oct-2014	Version 43	Changed	Changes made throughout the QuickSpecs.
09-May-2014	Version 42	Changed	Recommended Services was revised.
31-Jan-2014	Version 41	Changed	Changes made to the QuickSpecs
31-Jan-2014	Version 40	Changed	Added MSL Library Extender was added to Related Options
02-Dec-2013	Version 39	Changed	Edits were mostly to reflect the removal of the LTO-3 Ultrium 920 and the MSL8048 and MSL8096 and to add the MSL6480 throughout.
30-Sep-2013	Version 38	Changed	Product descriptions were revised in Configuration and Related Options.
22-Mar-2013	Version 37	Changed	Added StoreEver throughout entire QS Compatibility: Added Compatibility section to section. Related Options: Added HBAs/Controllers for Tape Automation Connect section.
			Removed: Product Highlights: Removed Ease of Use with LTFS and HPE StoreOpen section
			Overview: Updated product description and key features sections Product Highlights: Updated TapeAssure, Included backup and recovery software sections. Service and Support, HPE CarePack and Warranty Information: Updated Warranty section Configuration Information: Updated all section in Step 1 and first section in Step 2 Related Options: Updated Optical cables, Cable Kits (SCSI,SAS), Rack Cabinets and Media sections. Technical Specification: Updated Chart sections Maximum Capacity, Average Cartridge Swap Time in Extended Libraries (drive to slot, slot to drive) and Connectors sections.
18-Jan-2013	Version 36	Changed	Changes were made in the following sections: Configuration Information: Step 1/HPE StoreEver MSL4048 Tape Library Related Options: Encryption, Table Top Conversion Kit, Media
21-Dec-2012	Version 35	Changed	Changes made to the QuickSpecs
19-Dec-2012	Version 34	Changed	Changes were made in the following sections: Overview: Family Comparison Related Options: Optical Cables
04-Dec-2012	Version 33	Changed	Changes were made throughout the QuickSpecs.
12-Oct-2012	Version 32	Changed	Change made to URL in Service and Support, HPE Services operational, and Warranty Information section.

Summary of Changes

Date	Version History	Action	Description of Change
24-Sep-2012	Version 31	Changed	Changes made throughout the QuickSpecs.
07-Sep-2012	Version 30	Changed	Changes made to the North America and Canada versions.
17-Aug-2012	Version 29	Changed	Changes made to the Related Options section.
10-Aug-2012	Version 28	Changed	Changes made to Product Highlights and Related Options.
22-Jun-2012	Version 27	Changed	Changes made to Product Highlights and Related Options.
18-Jun-2012	Version 26	Changed	Changes made to the QuickSpecs
06-Apr-2012	Version 25	Changed	FC Host Bus Adapters were added to Related Options HPE MSL4048 2 LTO-4 Ultrium 1840 and 1760 and 1 LTO-3 Ultrium 920 SCSI Tape Libraries were removed from HPE MSL4048 Tape Library HPE U320e SCSI Host Bus Adapter was removed from SCSI Host Bus Adapters
16-Mar-2012	Version 24	Removed	Mentions of LTO-3 Ultrium 960 and PremierFlex OM3+ LC/LC type cables and OM2 LC-LC type cables were removed.
10-Feb-2012	Version 23	Added	Added HPE Smart Array P711m and HPE Smart Array P712m adapters to the options section.
13-Jan-2012	Version 22	Changed	HPE StoreOpen Automation was revised.
30-Sep-2011	Version 21	Added	Linear Tape File System (LTFS) and HPE StoreOpen Automation were added to Product Highlights.
02-Sep-2011	Version 20	Changed	Drive interface was updated in the Family Comparison chart Optical cables were revised in Related Options Connectors was completely revised in Technical Specifications
08-Jul-2011	Version 19	Changed	Revisions were made in Configuration Information and to Redundant Power Supply Upgrade Kit in Related Options.
17-Jun-2011	Version 18	Changed	Changes made to the QuickSpecs
17-Jun-2011	Version 17	Changed	OM3 LC-LC type cables were revised and 2m SW LC/SC FC Cable Kit was removed from OM2 LC-LC type cables in Optical Cables.
08-Jun-2011	Version 16	Removed	Removed StorageWorks throughout the document.
27-Sep-2010	Version 15	Changed	Family Comparison chart was revised Software in the Box was changed to Included backup and recovery software in Product Highlights Tape Libraries were completely revised and mentions of HPE Data Protector Express Basic backup and recovery software was added throughout Step 1 Easy and economical upgrade of the included software to Data Protector Express was added to Product Highlights Optical Cables were added to Related Options Upgrade included software to Data Protector Express was added to Related Options Customer Benefits was removed from the Overview 2m, 5m and 15m SW LC/SC FC Cable Kits were removed from Cable Kits 5642 (42U) Rack Cabinet was removed from Rack Cabinets

Summary of Changes

Date	Version History	Action	Description of Change
21-Jun-2010	Version 14	Changed	Revisions were made throughout the Overview and Product Highlights sections Service and Support, HPE Services operational, and Warranty Information was completely revised HPE LTO-5 Ultrium RW Bar Code Labels and WORM Bar Code Labels were added and Storage Media Kits were removed from Media All mentions of LTO-5 Ultrium 3000 was added
29-Mar-2010	Version 13	Changed	LTO-5 Ultrium 3280 Tape Drives were added throughout the QuickSpecs, TapeAssure was added to Product Highlights and Documentation kit including User and Service Guide (CD) and Getting Started Poster was removed throughout Step 1 of the Configuration Information.
15-Jan-2010	Version 12	Changed	NOTE for HPE StorageWorks MSL2024 Ultrium Left Magazine Kit was revised in Magazine Kits.
11-Dec-2009	Version 11	Changed	PDU Power Cords was revised in Step 2 of the Configuration Information section.
25-Nov-2009	Version 10	Changed	SAS and SCSI Host Bus Adapters and Controller/HBA and Cable Recommendation Matrix were modified in Related Options and Native Maximum Transfer Rate was revised for LTO-4 Ultrium 1760 in the Technical Specifications section.
09-Oct-2009	Version 9	Removed	Removed part number AH219A from Step 1 of Configuration Information.
24-Sep-2009	Version 8	Changed	Added part numbers AK379A & AK381A to step 1 of the Configuration Information section.
			Removed part number AH219A from the Recommended Services section.
14-Sep-2009	Version 7	Changed	Added: MLS8048 Tape Library throughout the QuickSpecs Slot license upgrade to the Product Highlights and Related Options sections StorageWorks to Model descriptions throughout the Configuration Information and Related Options sections
			The title has changed.
29-Jul-2009	Version 6	Added	Added pointers to the Library Extender and Data Encryption sections in Product Highlights.
08-Jul-2009	Version 5	Changed	Corrected two part numbers in the Related Options section.

Summary of Changes

Date	Version History	Action	Description of Change
19-Jun-2009	Version 4	Changed	Added Software in the Box to the Product Highlights section HPE Data Protector Express Software CD to HPE StorageWorks MSL2024 and MSL 4048 Tape Libraries in Step 1 of the Configuration Information section HPE MSL2024/4048/8096 LTO-4 Ultrium 1760 SCSI Drive Upgrade Kit and HPE MSL 2024/4048/8096 LTO-2 Ultrium 448 SCSI Drive Upgrade Kit to Tape Drives in the Related Options section 2m SFF8088-to-SFF8088 1x SAS Cable Kit and 4m SFF8088-to-SFF8088 1x SAS Cable Kit to Cable Kits in the Related Options section Controller/HBA & Cable Recommendation Matrix to the Related Options section Updated NOTEs for HPE SC44Ge SAS Host Bus Adapter in Host Bus Adapters and throughout Cable Kits in the Related Options section Revised LTO-2 Ultrium 448 Drive Technology for MSL2024 in the Technical Specifications section
12-May-2009	Version 3	Changed	The title has changed.
23-Apr-2009	Version 2	Changed	Changes made within the Family Comparison, Product Highlights, Related Options and Technical Specifications.
20-Apr-2009	Version 1	New	New QuickSpecs

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For tape drives and media, 1 GB = 1 billion bytes. Actual formatted capacity is less.

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