

Overview

Shape the Future of QuickSpecs – Your Input Matters

HPE Storage MSL2024 Tape Library

HPE Storage MSL2024 Tape Library meets demanding storage requirements of businesses needing unattended backup, disaster recovery, or archive capability. The MSL2024 Tape Library offers a broad choice of storage capacity and technology including LTO-9, LTO-8, or LTO-7 Ultrium tape drives. HPE's web-based remote management solution Command View for Tape Libraries (CVTL) makes the MSL2024 Tape Library easy to manage from any remote location, eliminating the need for remote office IT staff.

Quickly and simply manage the tape media both in and out of the library with the standard bar code reader, configurable mail slots, and removable magazines. If a tape were lost or stolen, protect important business data from unauthorized access with data encryption options. MSL investment protection and uncertain data growth are easily managed within the MSL library portfolio. Quickly increase capacity and/or performance with tool-free drive upgrades in the MSL2024 Tape Library or move tape drive kits to the MSL3040 or MSL6480 for library scalability and additional enterprise class features. Proactively receive detailed information about your MSL Tape Automation with HPE StoreEver TapeAssure Advanced, a licensed feature of CVTL. Information about the library, drives, and media are all monitored for utilization, operational performance, and life and health information. Prevent problems before they occur by proactively receiving notification if any library, drive or tape media parameters fall below Hewlett Packard Enterprise recommended standards.



HPE Storage MSL2024 Tape Library

What's New

- HPE Smart Choice entry-level tape library models with LTO- technology available that can be quoted in minutes and shipped quickly through HPE Authorized Partners.

Overview

Key Features

- Exceptional storage density: 1.08 PB (2.5:1 compression using LTO-9 tape cartridges)
 - Easy-to-use web-based remote management for multiple libraries with HPE Command View for Tape Libraries (CVTL)
 - Integrated bar code reader
 - Tool-free tape drive upgrades
 - Leverage tape drives in an MSL2024 into an MSL3040 or 6480 for investment protection.
 - Removable magazines with user-configurable mail slots
 - 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 TapeAssure Advanced, a licensed feature of CVTL.
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Standard Features

	MSL2024
Drive Technology Supported	LTO-9 Ultrium 45000 LTO-8 Ultrium 30750 LTO-7 Ultrium 15000
Maximum Number of Drives	2
Maximum Capacity (2.5:1 compression)	1.08 PB (LTO-9, 24 slots)
Maximum Data Transfer (Native)	2.16 TB/hr (2 LTO-9 drives)
Drive Interface	8 Gb Native Fibre Channel 12 Gb/sec SAS (LTO-9) 6 Gb/sec SAS (LTO-8 and earlier)

HPE Storage Tape Library Management Software

HPE Storage Tape Library Management Software provides an intuitive, user-friendly interface for remotely managing, monitoring, and configuring an entire tape library environment. It includes HPE Command View for Tape Libraries (CVTL) and its licensed feature, HPE StoreEver TapeAssure Advanced.

HPE StoreEver TapeAssure Advanced offers predictive analytics on the health, performance, and utilization of all tape drives and cartridges, enabling proactive management and optimized performance.

You can try HPE StoreEver TapeAssure Advanced free for 60 days upon installing CVTL. Simply download CVTL from [HPE Command View for Tape Libraries | HPE Store US](#) and experience its powerful features firsthand.

Easy Installation

The MSL2024 Tape Library is shipped as a rack-ready unit. The rack mount hardware included with the library allows installation in a variety of HPE racks. For more information on the HPE rack offerings, please see the following URL:

[Compute Products and Services | HPE](#)

Partitioning

The MSL2024 Tape Libraries now include the ability to be configured as a partitioned library. MSL Libraries may be configured with up to one partition per drive; two partitions if two drives are installed. Partitioning allows each partitioned library to be presented to the host as an independent library, separate from other partitions in the library. Hosts for each partition own independent sets of media and can use ISV software that is different from the other partitions allowing maximum flexibility and utilization of the MSL library.

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.

Disaster Recovery and Security

Removable media also has the advantage that data is held 'offline' which means that archive data on tape has the additional level of protection from the threats to on-line data from viruses, hackers and cyber-attacks. LTO-9, LTO-8, and LTO-7 Ultrium tape drives include hardware based data encryption to prevent unauthorized access to data at rest. LTO-7 to LTO-9 cartridges 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



Standard Features

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 MSL2024 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 MSL2024 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.



Standard Features

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 MSL2024 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 MSL2024 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.

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 LTO-7 Ultrium 15000	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 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



Standard Features

Linear Tape File System (LTFS)

LTFS makes tape self-describing, file-based, and easy-to-use, it also provides users with the ability to use standard file operations on tape media for accessing, managing and sharing files with an interface that behaves just like a hard disk. In addition, LTFS provides the ability to share data across platforms, as you would with a USB drive or memory stick. Simply load a tape into the drive, mount it into the file system, and it becomes visible as a disk.

For more information, including user guide, downloads and compatibility, visit:

[HPE StoreOpen and Linear Tape File System \(LTFS\) Software | HPE Store US](#)

HPE StoreOpen Software

HPE StoreOpen Software is a free software application that helps LTFS users to use and manage single tape drives, autoloaders and tape libraries

Available for Windows environments for automation products, it provides a native GUI with a familiar look and feel. It is installed automatically as part of the LTFS package and it completely removes the need for low-level terminal commands by guiding users through the full process of select, prepare and mount an LTFS cartridge.

For more information, including user guide, downloads and compatibility, visit:

[HPE StoreOpen and Linear Tape File System \(LTFS\) Software | HPE Store US](#)

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.

HPE Library and Tape Tools

The MSL2024 tape library is supported with HPE Library and Tape Tools (L&TT). L&TT is a free diagnostic tool for all 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

Hewlett Packard Enterprise (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 Hewlett Packard Enterprise 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.



Standard Features

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. Hewlett Packard Enterprise 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, rackable 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](#) .

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

Warranty

HPE provides a 1-year, next business day onsite, part exchange, limited warranty for the MSL2024 tape library and its components including drives, plus 9x5 phone support for the duration of the warranty.

Notes: The HPE MSL Tape Libraries warranty includes support for Customer Self Repair (CSR). The tape library cartridges, terminators, external cables, drives, magazines, controller board and power supplies are mandatory customer self-repair parts. This means both the removal and replacement of the above parts are designed for easy replacement; the on-site warranty does not extend to these parts. However, customers may request HPE Services to replace these replaceable units (Rus) for an additional charge. Also, customers who purchase an HPE Support Agreement have the option to perform CSR or receive onsite support.

Please refer to Hewlett Packard Enterprise's Support Center for further details: **Services | HPE** HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers. The HPE Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime. HPE Insight Remote Support and HPE Support Center are available at no additional cost with an HPE warranty, HPE Support Service or HPE contractual support agreement. warranty, HPE Support Service or HPE contractual support agreement.

Notes: *HPE Support Center Mobile App is subject to local availability.

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Services | HPE <https://www.hpe.com/services>

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

Advisory and Professional Services | HPE

HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

HPE Managed Services | HPE

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

Operational Support Services – Technology & IT Support | HPE



Service and Support

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

Complete Care Service | HPE

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to: **[Lifecycle Services | HPE](#)**

For a list of the most frequently purchased services using service credits, see the **[HPE Service Credits Menu](#)**

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

IT training & certification | HPE Services



Service and Support

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at <https://ssc.hpe.com/portal/site/ssc/>

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent at:

Hewlett Packard Enterprise (HPE) - Auth - Sign In

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at:

Contact Us – Hewlett Packard Enterprise – HPE - Contact Sales and Support | HPE

For more information: **Services | HPE**



Configuration Information

The Smart Choice Purchase Program

Pre-Configured Tape Storage - 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 Services available only through the HPE Smart Choice program when you purchase an HPE Smart Choice product.

For additional information on the HPE Smart Choice purchase program, please visit:

HPE Smart Choice Purchase Program – Supplemental QuickSpecs

Step 1 - Select Base

Description

HPE StoreEver MSL2024 0-drive Tape Library

SKU

AK379A

Notes:

- Includes 24 slots, zero drives.
- This product is TAA (Trade Agreements Act) compliant.
- MSL2024 rack-rail extends approximately 27.5 to 33 inches (69.8 to 83.8 cm)

Kit Contents (for each autoloader/library):

- One 2.5M PDU Power Cord, C13/C14, 10A (part number 142257-002)
- One RJ-45 Ethernet cable
- Rack-mount hardware

Factory Racking

Factory integrate the MSL2024 Tape Library with other HPE products such as HPE ProLiant Servers

#OD1

Notes: #OD1 will appear after the Tape Library part number on the sales order if HPE factory integration is indicated.

Step 2 - Select Generation & Quantity 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

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

SKU

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.
- #OD1 will appear after R6Q74A on the sales order if HPE factory integration is indicated.
- Tape Drive Upgrade Kits can only be factory integrated (#OD1) into the Autoloader when the Autoloader is factory integrated (#OD1) 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
- For tape drives to be integrated into the MSL2024 library, the library must be factory integrated (#OD1) into a rack
- (2) LC Optical Fiber Channel Connector
- (1)RJ-45 Ethernet data verification port
- This product is TAA (Trade Agreements Act) compliant.



Configuration Information

Description

SKU

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.
- 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
- For tape drives to be integrated into the MSL2024 library, the library must be factory integrated (#0D1) into a rack
- (2) Mini-SAS HD (SFF8644) Connectors
- (1)RJ-45 Ethernet data verification port
- This product is TAA (Trade Agreements Act) compliant.

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
- For tape drives to be integrated into the MSL2024 library, the library must be factory integrated (#0D1) into a rack
- (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
- For tape drives to be integrated into the MSL2024 library, the library must be factory integrated (#0D1) into a rack
- (2) Mini-SAS (SFF8644) Connectors
- (1)RJ-45 Ethernet data verification port
- This product is TAA (Trade Agreements Act) compliant.

HPE StoreEver MSL LTO-7 Ultrium 15000 FC Drive Upgrade Kit

N7P36A

Notes:

- Half height LTO-7 Fibre Chanel 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 N7P36A 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
- For tape drives to be integrated into the MSL2024 library, the library must be factory integrated (#0D1) into a rack
- (2) LC Optical Fiber Channel Connectors
- (1)RJ-45 Ethernet data verification port
- This product is TAA (Trade Agreements Act) compliant.



Configuration Information

Description	SKU
HPE StoreEver MSL LTO-7 Ultrium 15000 SAS Drive Upgrade Kit	N7P37A
Notes: <ul style="list-style-type: none">Half height LTO-7 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 N7P37A 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 siteFor tape drives to be integrated into the MSL2024 library, the library must be factory integrated (#0D1) into a rack(2) LC Optical Fiber Mini-SAS (MSL SAS LTO-8 and earlier models only)(1)RJ-45 EthernetThis product is TAA (Trade Agreements Act) compliant.	

Step 3 - Select Software Licenses

TapeAssure Advanced

Description	SKU
HPE StoreEver MSL Command View for Tape Libraries - TapeAssure Advanced LTU	TC406A
Notes: <ul style="list-style-type: none">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.	
HPE StoreEver MSL Command View for Tape Libraries - TapeAssure Advanced E-LTU	TC406AAE
Notes: <ul style="list-style-type: none">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, LTO-8, or LTO-7 drives for 1/8 Tape Autoloader, MSL2024/3040 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: <ul style="list-style-type: none">For use with MSL 1/8 Tape Autoloader and MSL2024 Tape libraries using LTO-9, LTO-8, or LTO-7 tape 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 - SPOCKThis license will be delivered via hard copy in the mail.	



Configuration Information

Description	SKU
HPE StoreEver MSL2024 KMIP Encryption E-LTU	TC468AAE

- Notes:**
- For use with MSL 1/8 Tape Autoloader and MSL2024Tape libraries using LTO-9, LTO-8, or LTO-7 tape 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 142257-002) 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
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. Hewlett Packard Enterprise disclaims all liability in the event a non-HPE approved power cord is used.



Related Options

Magazine Kits

Description	SKU
HPE StoreEver MSL2024 Ultrium Left Magazine Kit	AG119A
Notes: The MSL2024 comes standard with a right and left magazine. For use in the MSL 2024 Tape Libraries in the left position. User-enabled mail slots can be configured at either 0 or 1 slot	
HPE StoreEver MSL Ultrium Right Magazine Kit	AG120A
Notes: The MSL 2024 comes standard with a right and left magazine. For use on the right side of the MSL 2024 Tape Libraries; additional 12-slot magazine for the right position.	

Factory Racking

Factory integrate the MSL2024 Tape Library with other Hewlett Packard Enterprise products such as Hewlett Packard Enterprise ProLiant Servers.	#OD1
Notes: #OD1 will appear after the part number on the sales order if Hewlett Packard Enterprise factory integration is indicated.	

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 Matrix (Formerly EBS) and Design Guide located at:	
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	

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.	



Related Options

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 RW Data Cartridge	C7976B
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

Non-Custom Labeled Data Cartridges

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

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
HPE LTO-5 Ultrium Non-custom Labeled Data Cartridge 20 Pack	C7975AN



Related Options

Custom labeled Data Cartridges

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

Description	SKU
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

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 (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.	



Related Options

Description	SKU
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.	
HPE StoreEver 2m External Mini-SAS to 4x1 Mini-SAS Cable	AN975A
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 (SFF8088) ports.	
HPE StoreEver 4m External Mini-SAS to 4x1 Mini-SAS Cable	AN976A
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 (SFF8088) ports.	



Technical Specifications

		MSL2024
Drive Technology		LTO-9 Ultrium LTO-8 Ultrium 30750 LTO-7 Ultrium 15000
Maximum Number of Drives		Up to 2
Number of Slots		24
Drive Interface		8 Gb Native Fibre Channel 12 Gb/sec SAS (LTO-9) 6 Gb/sec SAS (LTO-8 and earlier)
Maximum Capacity	Native	432 TB (LTO-9) 288 TB (LTO-8) 144 TB (LTO-7) 60 TB (LTO-6)
	Compressed (2.5:1)	1.08 PB (LTO-9) 720 TB (LTO-8) 360 TB (LTO-7) 150 TB (LTO-6)
Maximum Transfer Rate	Native	2.16 TB/hr (2x LTO-9)
		2.16 TB/hr (2x LTO-8)
		2.16 TB/hr (2x LTO-7)
		1.15 TB/hr (2x LTO-6)
Dimensions	Out-of-Box (HxWxD)	3.4 x 18.9 x 31.7 in (8.7 x 48 x 80.6 cm)
	Shipping (HxWxD)	10.7 x 23.2 x 38.9 in (27.1 x 58.9 x 98.7 cm)
Weight	Out of box	32.9 lb (14.9 kg)
	Shipping	56.9 lb (25.8 kg)
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)	45 seconds	
Initialization Time	80 to 120 seconds	
Inventory Time	1:20 minutes (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 (1) USB port	
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 Mb/s/second, auto-configuring interface. RJ-45 connection. Https configurable.	
Power	168 Watts (max)	
Input Requirements	100 to 240 VAC, 50 to 60 Hz, 2.5 Amperes	



Technical Specifications

		MSL2024
Relative Humidity (non-condensing)	Operating	20% to 80%
	Shipping	20% to 90%
Temperature Range (wet bulb)	Operating (LTO-7 to LTO-8)	50° to 95° F (10° to 35° C)
	Operating (LTO-9)	59° to 89° F (15° to 32° C)
	Shipping	-22° to 140° F (-30° 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
23-Jun-2025	<u>Version 1</u>	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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