Data sheet

HPE Storage MSL6480 Tape Library

What's new

- MSL vault partition maintains secure storage area inside the library, isolated from drives and invisible to applications, preventing any intentional or accidental access.
- MFA enables organizations to enforce two-factor identity verification before library access is granted.

Overview

The HPE Storage MSL6480 Tape Library delivers high-capacity, enterprise-class data protection with modular scalability and exceptional cost efficiency. Designed for organizations with rapidly growing backup, archive, and compliance requirements, it expands from 6U in a single base module to 42U with expansion modules. The MSL6480 enhances cyber resilience with integrated encryption, multifactor authentication (MFA), and MSL vault partition, isolating media without the need to remove cartridges from the tape library. Simplified management, flexible partitioning, and broad host compatibility streamline deployment across diverse environments. With reliable LTO performance, long-term media durability, and low total cost of ownership (TCO), the MSL6480 delivers a scalable, secure, and economical solution for modern data retention strategies.

Features

Expandable Storage Density

The HPE Storage MSL6480 Tape Library features a scale-out architecture that grows with your needs. Add modules to increase capacity and performance without replacing the library.

Scale vertically from 80 to 560 cartridge slots to store up to 25.2 PB[1] in a single 19-inch rack; add up to 42 LTO-9 or LTO-8 half-height SAS or FC drives for speeds of up to 60.4 TB/hour.[1]

The HPE Storage MSL6480 Tape Library delivers cost-efficient density with 13 cartridge slots - or 600 TB (using LTO-9 tapes and 2.5:1 compression) - per 1U of rack space, scaling from 80 to 560 slots in a single expandable library, eliminating costly replacements as your requirements grow.

Advanced Security Features

In-library air-gap protection with MSL vault partition, isolating media without removing cartridges from the tape library, or create a physical air gap by removing the media from the library.

New multi-factor authentication (MFA) support adds an extra layer of protection for secure library management.

Reduce the threat of cyberattack with the MSL encryption kit, a fully self-contained encryption system which can be deployed without the need for an extra server or appliance, additional software or the complexity of a full KMIP solution.

High availability path failover uses host drivers in conjunction with library and drive firmware to manage multiple paths across multiple SANs. It presents a single drive or robot path to applications and automatically transfers commands to an alternate path if the original one is lost.

Protect critical data with immutable WORM storage and long-term archiving on media specified for a 30-year shelf life under normal ambient conditions. Easily move rugged LTO cartridges off-site for disaster recovery while preventing accidental overwrites.

Simplified Management

HPE Storage Tape Library Management Software manages, configures, and monitors libraries from any remote location through a single browser-based interface.

A centralized, intuitive interface enables configuration, management, and monitoring of tape libraries from a single console, on-site or remotely, streamlining operations through real-time status visibility and simplified access to library settings with - HPE StoreEver MSL6480 Command View TL LTU.

Enable predictive analytics and detailed health and performance reporting across all drives and cartridges to help IT teams optimize resources, plan proactively, and maintain smooth, reliable operations - with HPE StoreEver MSL6480 CVTL - TapeAssure Advanced LTU.

Proactively validate and scan the quality of data stored on LTO tape cartridges, helping ensure the successful retrieval of data - with - with HPE StoreEver MSL6480 CVTL - Data Verification Software LTU.

HPE Storage MSL tape libraries easily manage your media both in or out of the tape library with a standard bar code reader.

Flexible and Reliable

Expand capacity or performance with easy-to-install LTO drive upgrade kits. Add a new LTO-9, LTO-8, or LTO-7 drive, or reuse one from an existing HPE autoloader or tape library. No additional license fees apply when adding drives to an existing library.

SAS and Fiber Channel (FC) interface options available, offering enhanced flexibility for seamless integration into both SAS and FC SAN environments.

The HPE Storage MSL6480 Tape Library works with industry-leading servers, operating systems, and backup software. For more information, please see the HPE Storage Single Point of Connectivity Knowledge - SPOCK.

Partitioning allows the creation of virtual libraries that operate independently, maximizing utilization and reducing the need for additional hardware, lowering overall infrastructure costs.

Technical specifications	HPE Storage MSL6480 Tape Library
Drive type	LTO-9 Ultrium 45000 LTO-8 Ultrium 30750 Available with SAS or Fibre Channel interfaces
Capacity	25.2PB maximum capacity, with LTO-9 Ultrium 45000 cartridges compressed at 2.5:1
Transfer rate	144.9 TB/hr maximum with 42 LTO-9 drives compressed at 2.5:1
Number of cartridge slots	80 slots per module with 560 slots maximum in a fully expanded library
Maximum drives per enclosure	6
Servers supported	See HPE Storage Compatibility Matrix at https://h20272.www2.hpe.com/SPOCK/default.aspx
Host interface	8 Gb/s Fibre Channel 6 Gb/s SAS (LTO-6, LTO-7, LTO-8) 12 Gb/s SAS (LTO-9)
Encryption capability	AES 256-bit
Form factor	6U per module, maximum of 42U
Warranty	Hewlett Packard Enterprise provides a 1-year, next business day on-site, part exchange, limited warranty for the MSL3040 Tape Library and its components including drives, plus 9x 5 phone support for the duration of the warranty.

[1] Assumes LTO-9 with 2.5:1 data compression

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Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. 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

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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 quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Image may differ from the actual product.

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