

Spectra T950 Tape Library



What's new

- Support for full-height LTO-10 tape drives
- Spectra OSW-2400 Optical SAS switch

Overview

Does your data storage capacity outstrip your backup, disaster-recovery, and archive capability? Spectra T950 [Tape Library](#) combines field-proven reliability with storage innovation and gives you access to a full suite of enterprise storage capabilities. It delivers powerful library management, superior and proactive data integrity administration, and the outstanding total cost of ownership (TCO) for any tape solution. Once data expands beyond the limits of your initial Spectra T950 configurations, you simply add expansion frames to keep growing. Storage can expand up to 120 drives and 10,020 Linear Tape-Open (LTO) slots in eight frames. With versatile built-in LumOS library management software, you have intelligent command, control, and data integrity functionality at the touch of a screen. Spectra T950, with its compact footprint, is installed in many organizations worldwide to meet their backup, archive, and deep storage requirements.

Features

High Performance

Spectra T950 Tape Library, from robotics, to drives, to software, to media, offers performance innovations in automated tape technologies.

At maximum drive configuration, transfer data up to 172.8 TB per hour using LTO-10 technology.

High Capacity

When data center real-estate counts, the Spectra T950 Tape Library offers unsurpassed storage density and a small footprint through a unique and highly efficient library design built to fit into a standard rack-row layout. Also, it provides more storage capacity in less floor space.

Using innovative shelves instead of slots and Spectra TeraPack containers in place of individual cartridges, the Spectra T950 Tape Library uses less floor space.

Only buy what you need today and add storage capacity as you need it. Upgrade capacity in intervals of 10 LTO tape slots at a time. Tape consolidation through capacity, performance, partitioning, and reporting results in a lower TCO.

With LTO-10 technology, you can store over 300.6 PB (751.5 PB compressed) of data at the maximum slot configuration, and capacity can range from 50 to 10,020 slots and 1 to 120 drives.

Built-in Flexibility

Spectra T950 Tape Library can operate with either LTO-10, LTO-9, LTO-8, LTO-7, or LTO-6 tape drives. Paired with extensive software and hardware partners, organizations can develop customized workflows for every situation.

Thin provisioning improves the available storage in the partitions of a tape library. Administrators can change the size of a partition in the library without reconfiguring the entire library. It provides virtual storage capacity for simplified administration, reducing downtime and costs.

Empty Spectra TeraPack magazines provide a means to import tape media, already written with data, into a new library for continued use or migration. Spectra TeraPack magazines can also provide additional storage outside of the library.

High Reliability

Spectra T950 Tape Library offers an advanced suite of standard features that allow you to actively check data already written to tape. Data integrity verification examines media health before and after data writes, when enabled. Integrated BlueScale® Encryption provides automatic data protection.

PreScan checks each imported tape and verifies that the tape can be safely written to. QuickScan scans a tape uni-directionally to provide a rapid indicator of the integrity of data written. FullScan confirms that there are no media errors on the tape by reading the entire tape.

The library provides a high level of encryption security, with compression, for strong backup data privacy to deliver confidential information and address compliance quickly. Supports [WORM media](#) (using LTO-9, LTO-8, LTO-7, or LTO-6) providing a fail-safe method for permanently storing data records.

By using the new Spectra OSW-2400 Optical SAS Switch with the Spectra T950 Tape Library, organizations can reduce or mitigate the need for Fibre Channel HBAs, switches, and cables while enabling switched topologies within data center environments.

With Spectra certified media, exclusive data integrity verification and media lifecycle management features are enabled in LumOS library management software to reduce the risk of media failure or loss.

Technical specifications	Spectra T950 Tape Library
Drive type	LTO-10, LTO-9, LTO-8, LTO-7, LTO-6
Capacity	751.1 PB compressed 2.5:1, maximum using LTO-10
Host interface	LTO-10 32 Gb Fibre Channel or 12 Gb SAS
Transfer rate	400 MB/s, maximum using LTO-10
Number of cartridge slots	10,020 for LTO
Encryption capability	Hardware-based encryption through Enterprise Secure Key Manager (ESKM), BlueScale Professional Encryption, and Spectra Security Key Lifecycle Manager (SKLM)
Form factor	Free-standing frame (maximum 8)
Product dimensions (imperial)	Width: 29 inch Height 42U
Weight	821 lb – main frame
Warranty	1-year parts, 1-year labor, 1-year onsite support coverage.

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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

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[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.

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