Spectra TFinity Plus Tape Library

What's new

- Support for full height LTO-10 Fibre Channel and SAS drives.

Overview

Does your data storage capacity outstrip your backup, disaster recovery, and archive capability?

The Spectra TFinity Plus Tape Library delivers up to 45 exabytes (EB) of proven storage density packaged in a small footprint and offers scalability and speed to meet the requirements of the most demanding environments. Additional flexibility is provided through support of mixed media, both Linear Tape-Open (LTO) technology and TS11xx technology, in the same library. Customers can also access and migrate data from legacy Oracle® T10000 media to both technologies. Using LTO technology, it can expand from 50 to 56,400 slots for 4.3 EB of compressed data. Using TS1170 technology, the library can expand from 45 to 42,930 slots for 6.45 EB of 3:1 compressed data. The tape library can support up to 168 drives with transfer rates of 241.9 TB per hour (725.8 TB per hour compressed) using TS1170 technology.

Features

High Performance

The Spectra TFinity Plus Tape Library is built with high-performance, automated tape technology. The new LumOS library management software is available for existing and new Spectra TFinity tape libraries, providing users with a faster, more dynamic software platform.

The transporter is designed for better performance and reliability, achieved through shorter cycle and tape mount times and improved mean time between failures.

With LTO-10 technology, at maximum drive configuration, transfer data at rates up to 241.9 TB per hour (466.6 TB per hour compressed). With TS1170 technology, at maximum drive configuration, transfer data at rates up to 241.9 TB per hour (725.8 TB per hour compressed).

Time-Based Access Ordering System (TAOS) speeds up recall time and reduces wear by intelligently reordering individual recalls for media and drives. Zoning allocates a library territory for each robot to achieve greater performance as the two robots move media freely within the library.

Option of non-isolation service bays are available so that when a robot has a failure, it moves to the far right or left of the library. The other robot takes over any requested move operations.

High Capacity

When data center real estate counts, Spectra TFinity Plus Tape Library offers you incredible storage density and one of the smallest footprints through a unique and highly efficient library design for additional storage capacity in less floor space.

Using innovative shelves instead of slots and Spectra TeraPack containers in place of individual cartridges, the Spectra TFinity Plus Tape Library density 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 or 9 enterprise tape slots at a time. Tape consolidation through capacity, performance, partitioning, and reporting results in a lower total cost of ownership.

With LTO-10 technology, you can store 4.23 EB of 2.5:1 compressed data at the maximum slot configuration, with 50 to 56,400 slots and 1 to 168 drives.

With TS1170 technology, you can store 6.45 EB of 2.5:1 compressed data at the maximum slot configuration, with 50 to 54,000 slots and 1 to 168 drives.

Built-in Flexibility

Spectra TFinity Plus Tape Library can support both LTO and TS11xx tape technologies in the same library. Users can actively write and restore data from both technologies while having the ability to access and migrate data from legacy Oracle T10000 media.

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 provides additional storage outside the library.

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

Custom decorative panels enable customers to brand their data centers and the Spectra TFinity Plus Tape Library. Customers can graphically customize the panels in nearly any way they would like.

High Reliability

Spectra TFinity Plus Tape Library includes a redundant dual robotic infrastructure, that not only provides for a failover solution, but also boosts the working ability. All the parts and pieces have been carefully crafted and integrated for increased reliability.

The library offers a sophisticated suite of standard features, allowing you to actively check data already written to tape. Data integrity verification (DIV) examines media health before and after data writes, when enabled. Integrated BlueScale® Encryption provides automatic data protection.

PreScan checks imported tapes to verify that they can be safely written to. QuickScan checks tapes unidirectionally to provide a fast indicator of written data integrity. FullScan checks for media errors on the entire tape. All features are now available for both LTO and TS11xx technology.

The library provides a high level of encryption security to offer strong backup data privacy to deliver confidential information and address compliance quickly. It supports WORM media (using LTO-10, LTO-9, LTO-8, LTO-7, or LTO-6) providing a fail-safe method for permanently storing data records.

By using the Spectra OSW-2400 Optical SAS Switch with a Spectra TFinity Plus Tape Library, there is an option to connect SAS drives over a SAS interface from a host.

Technical specifications	Spectra TFinity Plus Tape Library
Drive type	LTO-10, LTO-9, LTO-8, LTO-7, LTO-6, TS1170, TS1160 168 drives, maximum supported
Capacity	6.45 EB compressed 3:1, maximum using TS1170 technology 4.23 EB compressed 2.5:1, maximum using LTO-10 technology
Transfer rate	725.8 TB per hour compressed, maximum using TS1170 technology 725.8 TB per hour compressed, maximum using LTO-10 technology
Number of cartridge slots	42,930 slots, maximum supported using TS technology 56,400 slots, maximum supported using LTO Ultrium
Encryption capability	Hardware-based encryption through Enterprise Secure Key Manager (ESKM), BlueScale Professional Encryption, and Spectra Security Lifecycle Manager (SKLM)
Form factor	29 inch, 42U free-standing frame, maximum of 45
Warranty	1-year warranty from date of shipment from the factory, for more warranty information, visit: https://support.spectralogic.com/.
Shipping weight	372 kg
Shipping dimensions	208.3 cm x 73.7 cm x 109.9 cm

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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.

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

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