Data sheet

Spectra Cube Tape Library

Spectra Cube HPT 30x HH Drive Shelves 5 Entry/Exit Chambers 2x PS Front Custom Graphic Base Frame (S4T31A)

What's new

- The Spectra Cube Tape Library expands to 50 PB using LTO-10 technology.

Overview

Does your data storage capacity outstrip your backup, disaster-recovery, and archive capability? The Spectra Cube Tape Library combines field-proven reliability with storage innovation and gives you access to a full suite of enterprise storage capabilities in a compact footprint. The Spectra Cube Tape Library starts small and expands up to 1670 slots and 50 petabytes (PB) of native capacity with LTO-10 and grows capacity and performance seamlessly without disrupting operations. The Spectra Cube Tape Library can expand up to 30 half-height (HH) or 16 full-height (FT) drives and 1670 Linear Tape-Open (LTO) slots. With the versatile built-in LumOS library management software interface, you have intelligent command, control, and data integrity functionality at the touch of a screen.

Features

High Performance

Utilizing the high-performance transporter robot from the enterprise Spectra TFinity tape library and the Spectra TeraPack Media architecture, the Spectra Cube Tape Library offers one of the highest data density and robotic performance in a modern tape library.

The Spectra Cube Tape Library comes standard with LumOS library management software. This modern application provides an intuitive user interface that makes using the Spectra Cube Tape Library very efficient. A standard REST API with full functionality makes automation easy and straightforward.

With LTO-10, at maximum drive configuration, transfer data up to32.4 TB per hour. (81 TB per hour compressed).

High Capacity

When data center real-estate counts, the SpectraCube Tape Library offers unsurpassed storage density in a small footprint through unique and efficient library design. More capacity in less floor space and one of the highest data density available in archive storage.

Using innovative shelves instead of slots, and TeraPack magazines in place of individual cartridges, the Spectra Cube Tape Library uses less floor space but does not give up any robotic performance.

Only buy what you need today and add storage capacity as you need it. Upgrade capacity in intervals of 10 LTOtape 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 storeup to 50.1 PB (native) and 126.3 PB(compressed) of data at the maximum slot configuration, and capacity can range from 50 to 1670 slots and 1 to16FH and 1 to 30 HH drives or a combination of the two.

Built-in Flexibility

Spectra Cube Tape Libraries can operate with LTO-10, LTO-9, LTO-8, LTO-7, or LTO-6 tape technologies. Paired with extensive software and hardware partners, organizations can develop customized workflows for every situation and make migrating to new LTO technology easier than ever.

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

High Reliability

Spectra Cube 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 unidirectionally to provide a rapid indicator of integrity of data written and can be done on a programmatic timeframe to help ensure data integrity over time.

The Spectra Cube Tape Library offers encryption security, with compression, for strong backup data privacy to deliver confidential information and address compliance quickly. Supports WORM media (using LTO-10, LTO-9, LTO-8, LTO-7, or LTO-6) for a fail-safe method of permanently storing data.

Technical specifications	Spectra Cube HPT 30x HH Drive Shelves 5 Entry/Exit Chambers 2x PS Front Custom Graphic Base Frame
Product Number	S4T31A
Drive type	LTO-10, LTO-9, LTO-8, LTO-7, LTO-6
Capacity	50.1 PB native capacity using LTO-10 125.3 PB compressed 2.5:1, maximum using LTO-10
Transfer rate	32.4 TB per hour (81 TB per hour compressed), maximum using LTO-10
Number of cartridge slots	1,670 LTO cartridge slots
Maximum drives per enclosure	30 Half Height, 16 Full Height, or a combination of FH and HH
Host interface	LTO-10 - 32 Gb Fibre Channel or 12 Gb SAS
Encryption capability	Built-in BlueScale Standard and Professional Encryption, Hardware-Based Encryption through Spectra KMIP, ESKM, and SKLM
Form factor	Single, free-standing frame
Warranty	1-year parts, 1-year labor, 1-year onsite support coverage.

HPE Services

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

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

Visit HPE.com

Chat now

© Copyright 2026 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

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.

PSN1014856986UKEN, October, 2026.

HEWLETT PACKARD ENTERPRISE

hpe.com