

Spectra® T950

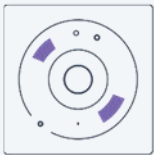


Optimizing Tape Storage Solutions

Spectra® T950 libraries present unparalleled flexibility with minimal management effort. They enable scalability of storage capacity and performance to meet evolving needs. The T950 features a future-proofed architecture, ensuring users' investments are preserved and extended for long-term value. Users can experience streamlined scalability and advanced technology integration for optimal data management.



Efficient Tape Management



- TeraPack containers store 10 LTO tapes vertically, tripling capacity per sq ft vs. other libraries
- Accommodates LTO or IBM® TS11XX tape cartridges for greater economy and savings.

Investment Protection



- Upgrade the T950 to a TFinity® ExaScale library for increased capacity and performance.
- During an upgrade, retain the original media and components, ensuring seamless application access.

Built-In Encryption



- Integrates key management and AES 256-bit encryption as standard features.
- Spectra BlueScale® Encryption easily and cost-effectively enhances your backup strategy.

Adaptive Integration

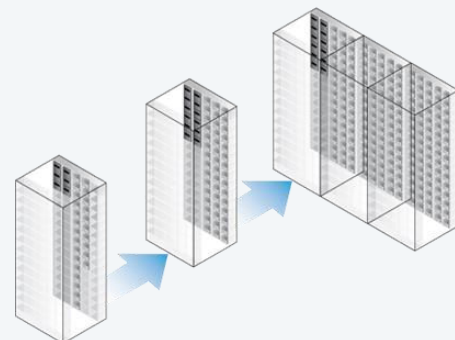


- Seamlessly adapts to any environment, supporting multiple protocols, applications, and operating systems.
- Data centers can effortlessly partition and transform a single library into multiple libraries.

Capacity on Demand

Start with a minimal configuration and expand storage capacity as needed. This approach helps reduce upfront costs and optimize investments.

- Adding tape slots via software activation avoids costly hardware changes or downtime.
- Frames can be easily added to a Spectra T950, allowing for effortless scaling without the need for extensive hardware changes.



Spectra T950 Reliability Features and Specifications

Reliability Features

Spectra T950 ensures optimal efficiency and reliability with advanced lifecycle management features, rapid data integrity assessments, and exceptional Mean Cycles Between Failures (MCBF), offering a future-proofed investment for streamlined and secure data management.

- **Drive Lifecycle Management (DLM):** Analyzes and reports on tape drive health within the library.
- **Library Lifecycle Management (LLM):** Tracks library utilization with its expected lifespan.
- **Media Lifecycle Management (MLM):** Monitors health and security of [Spectra Certified Media](#).
 - PreScan: Checks tape writability upon import.
 - QuickScan: Rapidly assesses data integrity by scanning one track.
 - FullScan: Comprehensive check of the entire tape for media errors.
- **Mean Cycles Between Failures (MCBF):** Over 2 million.
- **Mean Time Between Failures (MTBF):** 250,000 power-on hours.
- **Mean Time to Repair (MTTR):** 3 minutes for hot swap components, 30 minutes average for non-hot swap components.



Library Specifications

Library	Spectra T950 (Single frame configuration)		Spectra T950 (8-frame configuration)	
	LTO-9	TS1170	LTO-9	TS1170
Max Media/Slot Count	920 (LTO)	592 (TS1170)	10,020 (LTO) (8-frames)	7,614 (TS1170) (8-frames)
Max Native Capacity	16.5PB	67.5PB	180.3PB	380.7PB
Max Compressed Capacity¹	41.4PB	89PB	450.9PB	1.1EB
Max Drives²	24	24	120	120
Max Native Throughput (TB/hr.)	34.6	34.6	172.8	172.8
Max Compressed Throughput (TB/hr.)	77.8	77.8	388.8	388.8
Max SLS Partitions	16	16	16	16
Tape Drive Supported	LTO	IBM® TS11XX	LTO	IBM® TS11XX
Dual Robotics	N/A	N/A	N/A	N/A

Spectra T950 Specifications and Environments

Tape Drive Specifications

LTO-9 Drive Specifications (Full Height Only)			IBM TS1170 Technology Drive Specifications		
Capacity	18 TB (Native)	45 TB (2.5:1 Compression)	Capacity	50 TB (Native)	45 TB (2.5:1 Compression)
Performance	400 MB/s (Native)	900 MB/s (Compressed)	Performance	400 MB/s (Native)	900 MB/s (Compressed)
Backward Compatibility	LTO-8 Media (Read / Write)		Backward Compatibility	No backward compatibility with other TSXX technology	
Speed Matching	177 MB/S to 400 MB/s		Speed Matching	112 MB/s to 400 MB/s	
Interface	8 Gb/s FC and 12 Gb/s SAS		Interface	16 Gb/s FC and 12 Gb/s SAS	

Tape Drive Environments

All LTO Drives, TS1150, TS1155, and TS1160					
Mode	Dry-bulb Temperature	Maximum Temperature Rate of Change	Relative Humidity (non-condensing)	Maximum Humidity Rate of Change	Altitude (max)
Allowable Environment	16°C to 32°C (60°F to 90°F)	5°C per hour 9°F per hour	20% to 80% 22°C dew point max	5% per hour with no condensation	3,048 m (10,000 ft)
Recommended Environment	16°C to 25°C (60°F to 77°F)	5°C per hour 9°F per hour	20% to 50% 22°C dew point max	5% per hour with no condensation	3,048 m (10,000 ft)

TS1170 Drives					
Mode	Dry-bulb Temperature	Maximum Temperature Rate of Change	Relative Humidity (non-condensing)	Maximum Humidity Rate of Change	Altitude (max)
Recommended and Allowable Environment	16°C to 25°C (60°F to 77°F)	5°C per hour 9°F per hour	20% to 50% 22°C dew point max	5% per hour with no condensation	3,048 m (10,000 ft)

1. LTO compression ratio is 2.5:1. TS1170 compression ratio is 3:1.
2. Drive types are full height unless noted.

About Spectra Logic Corporation

Spectra Logic develops a full range of Attack Hardened™ data management and data storage solutions for a multi-cloud world. Dedicated solely to data storage innovation for more than 40 years, Spectra Logic helps organizations modernize their IT infrastructures and protect and preserve their data with a broad portfolio of solutions that enable them to manage, migrate, store and preserve business data long-term, along with features to make them ransomware resilient, whether on-premises, in a single cloud, across multiple clouds, or in all locations at once.

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