

Spectra T950



Enterprise-class performance in a midrange library

Spectra® T950 midrange tape library presents unparalleled flexibility with minimal management effort. It enables scalability of storage capacity and performance to meet evolving needs. Users can easily manage their library, configurations, and partitions and monitor library, media, and drive health through remote or local access. Spectra T950 library features a future-proofed architecture that preserves and extends the life of your investment.



Efficient Tape Management



- Streamline tape media handling, moving and loading with TeraPack® magazines
- TeraPacks store ten LTO or nine IBM® TS11XX tapes, tripling capacity per square foot

Investment Protection



- Migrate your existing LTO or TS11XX tape drives to the T950, even from another vendor
- Upgrade the T950 to a TFinity® Plus tape library for increased capacity and performance

Built-In Encryption



- Integrates key management and AES 256-bit encryption as a standard feature
- Enhances backup security with encryption without altering backup policies

Integrates into your Environment

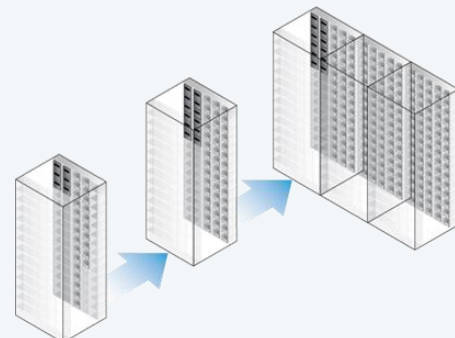


- Adapts to any environment by supporting multiple protocols, applications and operating systems
- Shares library resources across users or applications by partitioning into multiple libraries

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 Features and Specifications

Reliability Features

Spectra T950 tape library 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



Specifications

| Library | Spectra T950 (Single frame configuration) | | Spectra T950 (8-frame configuration) | |
|--|--|--------------|---|------------------------------|
| | LTO-9 | TS1170 | LTO-9 | TS1170 |
| Max Media/Slot Count | 920 (LTO) | 594 (TS1170) | 10,020 (LTO) (8-frames) | 7,614 (TS1170) (8-frames) |
| Max Native Capacity | 16.5PB | 29.7PB | 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 |

Tape Drive 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 TS11XX 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, TS1160 and TS1170 | | | | | |
|---|-----------------------------|------------------------------------|------------------------------------|----------------------------------|---------------------|
| 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) |

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 modernizes IT infrastructures to preserve, protect and defend data, from days to decades, whether on-premises, in a single cloud, across multiple clouds or in all locations at once. Our cost-effective solutions help organizations efficiently manage, migrate and store long-term data, from terabytes to exabytes, with features that make it ransomware resilient.