T~Finity

SPECTRA 30 YEARS

Spectra® T-Finity offers superior storage for enterprise environments looking to cost effectively manage large quantities of data. As the only unified tape storage solution, T-Finity leverages Spectra's history of leading-edge library design and the comprehensive BlueScale software interface to provide you with features and functionality that are built-in, not bolted on.

T-Finity offers enterprises several advantages for better value: less power consumption and cooling requirements; salvaged data center floor space; reduced network infrastructure; and relinquished library management servers and appliances for third party applications.

Intelligent Enterprise Tape Storage

Achieve the highest scalability, availability and performance possible. Spectra T-Finity sets a new benchmark in library design with an intelligent enterprise library that offers a highly flexible hardware architecture and an evolutionary management interface.

- **Highest density and greatest scalability:** T-Finity's cartridge density and 72 TB per square foot footprint advantage is up to 70% greater than its competitors. T-Finity offers the ability to add additional frames of capacity and scales to twice the capacity of competing libraries, scaling to more than 30,000 slots in a single library *without* pass-through ports.
- **The only library with unified management:** T-Finity uses the single BlueScale® interface to perform all management functions for the library including configuration, upgrades, encryption key management, library partitioning and reporting. No other vendor provides one interface for all these activities.
- **High availability hardware:** T-Finity's fault-tolerant, redundant component design delivers 99.99% availability† paired with superior library, drive, media and health monitoring tools for a level of availability unmatched by any other library.
- **The most energy efficient library:** T-Finity consumes up to 50% less power than its nearest rivals and the exclusive BlueScale EnergyAudit™ feature displays and records real-time energy use.
- **Efficiency through virtualization:** T-Finity's virtualized architecture of WWN's and device serial numbers allows for component failover and replacement without the need to reconfigure your environment, network and software.

*Throughput and capacity based on LTO-5 with 2:1 compression. †Used to compare enterprise library availability

Complete Lifecycle Management

For highly reliable and high performance tape archive and backup, T-Finity's modern design goes well beyond hardware component redundancy. T-Finity also tracks all of the expected lifetime utilization thresholds for tape media, drives and library components. With advance notification, you can address the critical components of your library well before they cause problems.

To ensure the viability of your data, Media Lifecycle Management (MLM) reports over 30 health and security related data points on each piece of Spectra Certified Media. This in-depth reporting proactively mitigates media problems before restore issues occur and enables you to remaster data onto new media before you need it. For further integrity, ScanTape inspects tapes before the write process and also verifies that data has been written to tape.

Like MLM, Drive Lifecycle Management (DLM) extends the same proactive approach to drives by integrating tape drive analysis and reporting within the library. By using easy-to-manage color-code icons, you quickly identify the health status of a drive. DLM also offers easy-to-use tape drive diagnostics to test and verify drive health and operation.

Library Capacity and Throughput
(Minimum Configuration of 3 Frames)

Drive Type	Configuration	Drives	Slots[1]	Capacity	Throughput
LTO 5	Drive Frame	24	920	2.8 PB	24.2 TB/hr
	Library[2]	120	30,520	91.6 PB	121.0 TB/hr
LTO 4	Drive Frame	24	920	1.5 PB	20.7 TB/hr
	Library[2]	120	30,520	48.8 PB	103.7 TB/hr

Frames: 1 to 25
Drives: 2 to 120
Slots: 100 to 30,520

NOTE: Capacity and throughput values calculated at compression ratio of 2:1
1. 920 LTO slots maximum with 12 drives, 800 LTO slots max with 24 drives
2. 30,000 LTO slots maximum with 48 drives

Features

- Dual Redundant Robotics
- Industry-Leading Scalability
- Fault-Tolerant Reliability
- Media Health Monitoring
- Drive Health Monitoring
- Library Hardware Health Monitoring
- Integrated Encryption
- Customer Self Maintenance
- Remote Camera Monitoring
- Remote Management
- TeraPack Media Containers
- Power Monitoring

Physical Characteristics

Single Frame Dimensions
Height: 79.15" / 201.0 cm
Drive/Media Frame Width: 29" / 73.7 cm
Service Frame Width: 31" / 78.7 cm
Depth: 43.21" / 109.8 cm

Single Frame Weights
Drive Frame: 800 lbs / 362 kg
Media Frame: 750 lbs / 340kg
Service Frame: 700 lbs / 318 kg

Power Requirements:
Single Drive Frame with 24 LTO-4 drives: 230v AC/13 Amps/2600 Watts AC (Max)
Single Service Frame: 8 Amps / 1600 Watts AC (Max)
25-Frame Library with 5 Drive Frames (120 Drives): 81 Amps/16,200 Watts AC (Max)

Heat Dissipation: 5,898 BTU/h (24 drives)

Interface Options:
Fibre Channel: 2 Gb/s – 4 Gb/s and 8 Gb/s (LTO-5)
Mean Cycles Between Failures: 2,000,000
Availability: up to 99.99%

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