

Data Sheets : White Papers : Case Studies



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Manage Your Big Data Better with Spectra T-Finity and TS1140 Technology



Fortune 500 and enterprise class organizations face large scale data management challenges: effectively and efficiently managing aggressive electronic data growth while securely protecting data. To overcome these challenges, Spectra offers you an effective and efficient solution to address critical data growth—T-Finity® library paired with TS1140 Technology Tape Drives.



High Capacity: With 4.0 TB native (8.0 TB compressed @ 2:1) you can consolidate your critical storage, simplify media management, and confidently protect your data.

Fast Performance: Experience shorter backup windows and improved data access with the fastest tape drive on the market, delivering native data transfer rates of 250 MB/s and compressed data transfer rates of 500 MB/s.

Reliability: 237,000 hour MTBF to meet demanding uptime requirements and ensure data is available when it's needed.

Information Security: Supporting multiple data encryption and key management practices.

TS1140 Technology Tape Drive Features

Larger Buffer: The main buffer size of 1 GB improves drive agility, file access, and small file handling. Furthermore, the buffer reduces backhitches for all workloads and improves the overall write and read performance.

Speed Matching: 12 read / write speed levels ranging from 30 MB/s to 240 MB/s allow the drive to stream data transfer to the tape from slower hosts. Coupled with the larger buffer, improved speed matching enables better throughput and reliability in environments where host data rates are less than optimal.

Read Ahead: Buffer size capable of reading ahead and caching up to 1,000 MB of compressed data delivers better performance in short-hop file locate operations.

High Resolution Tape Directory and Virtual Backhitch: Improves performance for small file reads/writes while also reducing wear and tear on tape media.

Statistical Analysis Reporting Systems (SARS): Helps isolate failures between media and hardware to assist in determining likely cause of failure. SARS information is reported through TapeAlert flags and through Media Information Messages (MIMs) and Service Information Messages (SIMs).

Spectra TS1140 Technology Tape Drive Specifications

Reliability

Mean Time Between Failures (MTBF):
237,000 hours

Mean Swaps Between Failures:
300,000 tap load/unload cycles

Capacity: 4.0 TB native

(8.0 TB compressed 2:1)

Data Transfer Rates: Up to 250 MB/s native

(up to 500 MB/s compressed 2:1)

Data Rate Matching: Speed Matching, 30–240 MB/s

Data Compression: Streaming Lossless Data Compression (SLDC) LZ-1 Implementation

Data Cartridges: IBM JC (3592 Tape Cartridge Extended Data, rewritable)

Cleaning Cartridge: 3592 Cleaning Cartridge

Backwards Compatibility: Read / Write IBM JB (TS1130 Technology) reformatted. Read only if not reformatted.

Interface: 8 Gb/s Fibre Channel

Encryption: AES 256-GCM (256-bit Advanced Encryption Standard)

Operating Environment

Temperature with Media: 16° to 32°C (60° to 90°F)

Relative Humidity: 20% to 80% non-condensing (limited by media)

Web Bulb Maximum: 26°C (78.8°F)

Power Consumption: 46 watts

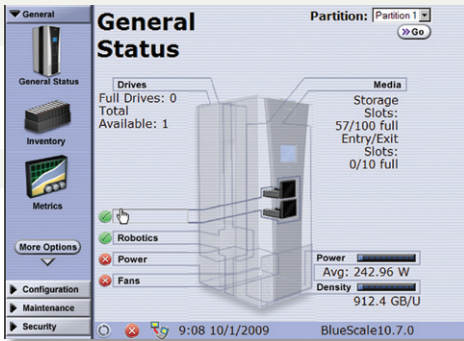


T-Finity Advantages

To help data-intensive enterprise environments overcome data growth challenges, Spectra has developed an answer for data growth with a solution that offers reliable, scalable, high performance and cost-effective storage—T-Finity. Spectra® T-Finity provides a dramatically superior way for you to store and manage endless data by utilizing a highly reliable and available architecture designed with all features and functionality built-in, not bolted-on. This modern design offers an optimized storage solution that allows you to continually realize growth, performance, energy, storage management and complete infrastructure efficiencies.

High Density Storage

Scale your storage infrastructure more securely and easily than ever by combining TS1140 Technology's speed, capacity, and reliability with T-Finity's industry leading density and scalability. T-Finity uses innovative "shelves" instead of slots, and TeraPack containers in place of individual cartridges, resulting in a storage density that is unmatched by any other library available. This incredible density allows you to maximize your storage space. Coupled with T-Finity's immense scalability, you can have nearly unlimited storage despite data center space constraints.



The only interface that gives you simple library management. Since 1994, Spectra's BlueScale® management software has provided an intuitive feature-rich user interface that brings a new level of efficiency into your tape storage environment. BlueScale improves tape management by continually supporting new feature innovations that meet your evolving requirements.



High Security

Enjoy the highest level of security with TKLM-based* AES-256 encryption key management with TS1140 Technology. T-Finity supports encryption key management to ensure your data can be stored while meeting any applicable security requirements you may have.

*Future

Energy Efficiency

T-Finity's energy efficient, highly compact design helps you reduce storage power consumption and provides you with the BlueScale EnergyAudit® feature to monitor library power usage. TS1140 Technology and T-Finity give you additional energy efficiency per TB stored with advanced power management and high density storage.

TS1140 Technology and T-Finity



	T-Finity	
	Master Frame	25 Frames
Maximum Number of Drives	24	120
Maximum Media / Slot Count	594	23,130
Maximum Capacity*	4.7 PB	185 PB
Maximum Throughput*	43.2 TB/Hr	216 TB/Hr

*Compressed at 2:1

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