TS1150 Technology:
The Most Reliable and Highest Capacity Tape Technology in the Industry

The TS1150 Technology offers the most reliable tape technology ever developed. Designed to provide Enterprise-Class reliability with 24 x 7 usage, the TS1150 Technology tape drive provides 1000 times more data integrity than an LTO tape drive.

In addition to robust reliability and data integrity, the TS1150 Technology offers the largest capacity per tape and the fastest data rate of any tape technology available. This translates into fewer tapes needed to store the same amount of data, less labor and time to manage the tape inventory, and reduced library, application and offsite slot costs. Superior performance provides customers with the ability to get the same amount of work done with fewer drives and reduced support costs.

Equally important is the investment protection offered by this technology. With significant gains in both capacity and data rate with every new generation; 300% increase in capacity and 50% increase in data rate from TS1130 Technology to TS1140 Technology and 150% increase in capacity and a 45% increase in data rate from TS1140 to TS1150 Technology.

High Capacity: With 10 TB native (25 TB compressed at 2.5:1) 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 360 MB/s and compressed data transfer rates of 700 MB/s.

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

Superior Data Integrity: TKLM with AES-256 bit encryption and key management.

TS1150 Technology Tape Drive Features

Speed Matching:
12 read/write speed levels allow the drive to stream data to the tape from slower hosts. 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 2,000 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.

Backwards Compatibility:
Not offered by any other tape technology. The TS1150 Technology tape drive is capable of reformatting a 3592 JC tape cartridge providing up to 7.0 TB of native storage capacity and up to 300 MB/s data rate.

Linear Tape File System (LTFS):
LTFS allows users to organize and search the contents of a tape with the same methodology as a hard disk, improving access time to data. LTFS also makes it possible to drag and drop files in the same manner as disk.

TS1150 Technology Tape Drive Specifications

Reliability

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

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

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

Capacity: 10 TB native (25 TB compressed 2.5:1)
Data Transfer Rates: Up to 360 MB/s native (up to 700MB/s compressed)
Data Compression: Streaming Lossless Data Compression (SLDC) LZ-1 Implementation
Data Cartridges: 3592 JD media
Cleaning Cartridge: 3592 Cleaning Cartridge
Backwards Compatibility: Read / Write
3592 JC media TS1140 format - 4.0 TB capacity, 250 MB/sec data rate.
3592 JC media TS1150 format - 7.0 TB capacity, 300 MB/sec data rate.
Interface: 8 Gb/s Fibre Channel
Encryption: AES 256-GCM (256-bit Advanced Encryption Standard)

TS1150 Technology and TFinity

TFinity 3-Frame				
DBAs	Slots	TB native	# of Drives	TB/Hr Native
6	1,350	5,940	24	31.1

*Compressed at 2.5:1

TS1150 Technology and T950

T950 Base Frame				
DBAs	Slots	TB native	# of Drives	TB/Hr Native
6	594	5,940	24	31.1
3	684	6,840	12	15.6
1	738	7,380	4	5.2

*Compressed at 2.5:1

TS1150 Technology and T380

T380				
DBAs	Slots	TB native	# of Drives	TB/Hr Native
3	153	1,530	12	15.6
2	207	2,070	8	10.4
1	261	2,610	4	5.2

*Compressed at 2.5:1