



# IBM® TS1155 Technology: The Most Reliable and Highest Capacity Tape Technology in the Industry

The IBM® TS1155 Technology offers the most reliable tape technology ever developed. Designed to provide enterprise-class reliability with 24 x 7 usage, the IBM® TS1155 Technology tape drive provides 10 times more data integrity than an LTO tape drive.

In addition to robust reliability and data integrity, the IBM® TS1155 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 lower support costs.

Equally important is the investment protection offered by this technology. With every new generation, this enterprise tape technology delivers significant gains in both capacity and data rate. For example, there was a 250 percent increase in capacity and 50 percent increase in data rate from IBM® TS1140 Technology to IBM® TS1150 Technology and a 150 percent increase in capacity from IBM® TS1150 to IBM® TS1155 Technology.



**High Capacity:** With 15TB native (37.5TB 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:** 250,000 hour MTBF to meet demanding uptime requirements and ensure data is available when it's needed.

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

## IBM® TS1155 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.

### **Backward Compatibility:**

Not offered by any other tape technology, the IBM® TS1155 Technology tape drive is capable of reformatting a 3592 JC tape cartridge providing up to 7 TB of native storage capacity and up to 300 MB/s data transfer rate. The 3592 JD (TS1150) tape cartridge can be reformatted to deliver 15TB of native storage capacity and up to 360 MB/s data transfer 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.

# IBM® TS1155 Technology Tape Drive Specifications

## Reliability

**Mean Time Between Failures (MTBF):**  
250,000 hours

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

## Operating Environment

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

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

**Web Bulb Maximum:** 78.8°F (26°C)

**Power Consumption:** 46 watts

**Capacity:** 15TB native (37.5TB compressed at 2.5:1)

**Data Transfer Rates:** Up to 360 MB/s native (up to 700 MB/s compressed)

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

**Data Cartridges:** 3592 JD media

**Cleaning Cartridge:** 3592 Cleaning Cartridge

**Backward Compatibility:** Read / Write

IBM® 3592 JC media TS1140 format\* - 4TB capacity, 250 MB/sec transfer rate

IBM® 3592 JC media TS1150 format - 7TB capacity, 300 MB/sec transfer rate

IBM® 3592 JD media TS1150 format - 10TB capacity, 300 MB/sec transfer rate

**Interface:** 8 Gb/s Fibre Channel

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

\*Read ONLY



## IBM® TS1155 Technology and Spectra® TFinity® ExaScale Tape Library

TFinity 3-Frame (expandable to 44 frames)				
DBAs	Slots	TB native	# of Drives	TB/Hr Native
6	1,350	20,250	24	31.1



## IBM® TS1155 Technology and Spectra® T950 Tape Library

T950 Base Frame				
DBAs	Slots	TB native	# of Drives	TB/Hr Native
6	594	8,910	24	31.1
3	684	10,260	12	15.6
1	738	11,070	4	5.2



## IBM® TS1155 Technology and Spectra® T380 Tape Library

T380				
DBAs	Slots	TB native	# of Drives	TB/Hr Native
3	153	2,295	12	15.6
2	207	3,105	8	10.4
1	261	3,915	4	5.2



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