IBM TS3200 tape library

Entry-level LTO tape library designed to provide reliable, high-capacity, high-performance tape backup

Highlights

- Support the latest Linear Tape-Open (LTO) technology with up to four LTO™ Ultrium™ 7 tape drives using a 4U form factor

- Gain outstanding capacity, performance and reliability for a cost-effective backup, restore and archive for midrange storage environments

- Simplify user access to data stored on LTO Ultrium 7, 6 and 5 cartridges through the use of IBM® Spectrum Archive™ featuring IBM Linear Tape File System™ technology

- Manage library remotely through a standard web interface with flexibility and greater administrative control of storage operations

The IBM TS3200 tape library leverages the latest generation of LTO technology to help cost-effectively handle growing storage requirements.

The TS3200—and its storage management applications—is designed to address capacity, performance, data protection, reliability, affordability and application requirements. It is a functionally rich, high-capacity, entry-level tape-storage solution incorporating the latest LTO Ultrium tape technology. The TS3200 is an excellent solution for large-capacity or high-performance tape backup with or without random access, as well as an excellent choice for tape automation for IBM Power Systems™, and other open systems.

The TS3200 tape library is well-suited for handling the backup, restore and archive data-storage needs for small to midsize environments. With the use of up to two LTO Ultrium full-height tape drives or up to four LTO Ultrium half-height tape drives and with 48 tape cartridge capacity, the TS3200 tape library is designed to use LTO technology to cost-effectively handle growing storage requirements. It is configured with four removable cartridge magazines, two on the left side (24 data cartridge slots) and two on the right (24 data cartridge slots). Additionally, the lower left magazine includes a three-slot I/O station to help support continuous library operation while importing and exporting media. A bar code reader is standard in the library, supporting its operation in sequential or random-access mode. The TS3200 also comes standard with remote management capabilities to allow for remote administration of

the tape library through a web interface. The optional Path Failover feature is designed to provide automatic control path failover to a preconfigured redundant control path in the event that a host adapter or control path drive is lost, without aborting the current job in process.

The LTO Ultrium 7 technology is designed to provide greater capacity with continued support for data encryption. The hardware encryption and decryption core and control core reside in the LTO Ultrium 7 tape drive (available to the TS3200 with a 6 Gbps SAS interface). A large internal data buffer helps improve data access rates and reduce cartridge fill and rewind times along with dynamic channel calibration to help increase data throughput. In addition to reading and writing to LTO Ultrium 7 tape cartridges, the LTO Ultrium 7 tape drive can read and write to LTO Ultrium 6 cartridges and read LTO Ultrium 5 cartridges with improved data rates. The LTO Ultrium 7 tape drive is designed to support up to 300 MBps native data-transfer rates and up to 6 TB native physical capacity when using the LTO Ultrium 6 TB data cartridge (15 TB with 2.5:1 compression). The TS3200, featuring LTO Ultrium 7 tape drives, has a capacity of up to 288 TB native (720 TB with 2.5:1 compression).

The TS3200, featuring full- and half-height technology offers 8 Gbps Fibre Channel for LTO Ultrium 7, 6, 5, and 4 and 6 Gbps SAS interfaces for LTO Ultrium 7, 6, 5 and 4. It can be attached to a wide variety of open-system servers. The sequential or random-access library comes in a standalone or optional rack-mountable configuration. The TS3200 also has an LCD display and indicators for power, drive and activity, error status and message information.

IBM TS3200 tape library model at a glance

Drive options	LTO Ultrium 7 full-height: 8 Gbps Fibre Channel (FC#8444) LTO Ultrium 7 half-height: 6 Gbps SAS (FC #8447): 8 Gbps Fibre Channel (FC# 8448) LTO Ultrium 6 full-height: 8 Gbps Fibre Channel (FC # 8344) LTO Ultrium 6 half-height: 6 Gbps SAS (FC # 8347); 8 Gbps Fibre Channel (FC # 8348) LTO Ultrium 5 full-height: 6 Gbps SAS (FC # 8245); 8 Gbps Fibre Channel (FC # 8244) LTO Ultrium 5 half-height: 6 Gbps SAS (FC # 8247); 8 Gbps Fibre Channel (FC # 8248) LTO Ultrium 4 half-height: 6 Gbps SAS (FC # 8149); 8 Gbps Fibre Channel (FC # 8148)
Available models	TS3200 tape library model L4U 3573 L4U (MTM)

Optional feature codes

Path failover	FC # 1682
Transparent LTO Ultrium encryption	FC # 5900
Rack mount	FC # 7002
Right-side magazine set Left-side magazine, upper Left-side magazine, lower	FC # 8106 FC # 8107 FC # 8108

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LTO Ultrium tape cartridges	LTO Ultrium 7 media: MT 3589 LTO Ultrium 6 media: FC # 8605 LTO Ultrium 5 media: FC # 8505 LTO Ultrium 4 media: FC # 8405
LTO Ultrium cleaning cartridge	FC # 8002
Additional power supply	FC # 1901
Tape drive type	LTO Ultrium 7 half-height and half-height LTO Ultrium 6 full-height and half-height; LTO Ultrium 5 full-height and half-height; LTO Ultrium 4 full-height and half-height
Number of drives	1 – 4
Number of tape cartridges	48
Number of mail slots	3
Physical capacity	**Cartridge capacity** 15 TB compressed 2.5:1 with LTO Ultrium 7; 6 TB native 6.25 TB compressed 2.5:1 with LTO Ultrium 6; 2.5 TB native 3.0 TB compressed 2:1 with LTO Ultrium 5; 1.5 TB native 1.6 TB compressed 2:1 with LTO Ultrium 4; 800 GB native **Library capacity** 720 TB compressed 2.5:1 with LTO Ultrium 7; 288 TB native 300 TB compressed 2.5:1 with LTO Ultrium 6; 120 TB native 144 TB compressed 2:1 with LTO Ultrium 5; 72 TB native 76.8 TB compressed 2:1 with LTO Ultrium 4; 38.4 TB native
Data transfer rate (per drive)	Up to 300 MBps native with LTO Ultrium 7 Up to 160 MBps native with LTO Ultrium 6 Up to 140 MBps native with LTO Ultrium 5 Up to 120 MBps native with LTO Ultrium 4

Dimensions (W x H x D)

Standalone	17.6 in. (447.5 mm) x 7.29 in. (185.2 mm) x 31.9 in. (810 mm)
Rack mount	17.6 in. (447.5 mm) x 6.89 in. (175.2 mm) x 29.13 in. (740 mm)
Weight	47 lb (21.3 kg) without rack mount

Operating environment

Temperature	50°F - 113°F (10°C - 45°C)
Relative humidity	10% RH - 80% RH (noncondensing)
Electrical power	4.0 amps at 100 V ac, 2.0 amps at 240 V ac 0.1 KVA
Attachment support	8 Gbps Fibre Channel, 6 Gbps SAS interface, LVD SCSI, 4 Gbps Fibre Channel and 3 Gbps SAS interface (LTO Ultrium 4 full-height)
Operating systems support	Native device-driver support is available for selected IBM System servers and other Linux and Microsoft Windows open-system servers Latest support information: **ibm.com**/systems/support/storage/config/ssic
Warranty	Three-year, customer-replaceable unit (CRU) service in most countries

Why IBM?

The performance and availability of your storage environment can either enhance or hamper your business processes. That's where IBM comes in. As a market leader in the storage industry, we can help you handle the challenges that your network or company as a whole encounters.

Innovative technology, open standards, excellent performance, and a broad portfolio of storage-proven software, hardware and solutions offerings—all backed by IBM with its recognized leadership—are just a few of the reasons why you should consider IBM storage offerings.

For more information

To learn more about the IBM TS3200 tape library model, please contact your IBM representative or IBM Business Partner, or visit: **ibm.com**/systems/storage/tape/ts3200/ or **ibm.com**/systems/storage/tape/

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