



Highlights

- Support the latest generation of Linear Tape-Open™ (LTO) technology with up to two LTO™ Ultrium™ tape drives using a 2U form factor
 - 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 libraries remotely through a standard web interface that supports flexibility and improved administrative control over storage operations
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IBM TS3100 tape library

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

The IBM TS3100 tape library and its storage management applications are designed to exceed your capacity, performance, data protection, reliability, affordability and application requirements. The TS3100 is designed as a functionally rich, entry-level tape-storage solution incorporating LTO tape technology. The TS3100 is an excellent solution for large-capacity or high-performance tape backup with or without random access, as well as an excellent tape automation option for IBM Power Systems™ and other open systems.

The TS3100 is well-suited for handling the backup, restore and archive data-storage needs for small to midsize environments. With the use of one LTO full-height tape drive or up to two LTO half-height tape drives and with a 24-tape cartridge capacity, the TS3100 leverages LTO technology to cost-effectively handle growing storage requirements. The TS3100 is configured with two removable cartridge magazines, one on the left side (12 data cartridge slots) and one on the right (12 data cartridge slots). Additionally, the left magazine includes a single mail slot to help support continuous library operation while importing and exporting media. A bar code reader is standard in the library, supporting the library's operation in sequential or random-access mode. The TS3100 also comes standard with remote management capabilities to allow for remote administration of the tape library through a web interface. Path failover is an optional feature for this library 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 encryption of data. The hardware encryption and decryption core and control core reside in the LTO Ultrium 7 tape drive. A large internal data buffer helps improve data access rates and reduce cartridge fill and rewind times along with dynamic channel calibration designed 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 TS3100, featuring LTO Ultrium 7 tape drives, has a capacity of up to 144 TB native (360 TB with 2.5:1 compression). The sequential or random-access library comes in a standalone base configuration with the option of an industry-standard 19-inch rack-mount kit. The TS3100 also has an LCD and indicators for power, drive and activity, error status and message information.



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.

IBM TS3100 tape library 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 full-height: Low Voltage Differential (LVD) SCSI (FC # 8143); 3 Gbps SAS (FC # 8145); 4 Gbps Fibre Channel (FC # 8144) LTO Ultrium 4 half-height: 6 Gbps SAS (FC # 8149); 8 Gbps Fibre Channel (FC # 8148)
Available models	TS3100 tape library model L2U 3573 L2U (MTM)
Optional feature codes	
Path Failover feature	FC # 1682
Transparent LTO encryption	FC # 5900
Rack mount	FC # 7002
Right-side magazine set	FC # 8106
Left-side magazine	FC # 8109

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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
Tape drive type	LTO Ultrium 7 half-height and full-height LTO Ultrium 6 half-height and full-height LTO Ultrium 5 half-height and full-height LTO Ultrium 4 half-height and full-height
Number of drives	1 – 2
Number of tape cartridges	24
Number of mail slots	1
Physical capacity	Capacity per cartridge Up to 15 TB compressed 2.5:1 with LTO Ultrium 7; 6 TB native Up to 6.25 TB compressed 2.5:1 with LTO Ultrium 6; 2.5 TB native Up to 3 TB compressed 2:1 with LTO Ultrium 5; 1.5 TB native Up to 1.6 TB compressed 2:1 with LTO Ultrium 4; 800 GB native Library capacity Up to 360 TB compressed 2.5:1 with LTO Ultrium 7; 144 TB native Up to 150 TB compressed 2.5:1 with LTO Ultrium 6; 60 TB native Up to 72 TB compressed 2:1 with LTO Ultrium 5; 36 TB native Up to 38.4 TB compressed 2:1 with LTO Ultrium 4; 19.2 TB native
Data transfer rate	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) × 3.84 in. (97.6 mm) × 31.9 in. (810 mm)
Rack mount	17.6 in. (447.5 mm) × 3.44 in. (87.6 mm) × 29.13 in. (740 mm)
Weight	33 lb (15 kg) without rack mount
Operating environment	
Temperature	50°F - 113°F (10°C - 45°C)
Relative humidity	10% - 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 interfaces LVD SCSI, 4 Gbps Fibre Channel and 3 Gbps SAS interfaces (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/displayesssearchwithoutjs.wss?start_over=yes
Warranty	Three-year, customer-replaceable unit (CRU) service in most countries

For more information

To learn more about the [IBM TS3100 tape library](#), please contact your IBM representative or IBM Business Partner, or visit: ibm.com/systems/storage/tape/ts3100

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Actual available storage capacity may be reported for both uncompressed and compressed data and will vary and may be less than stated.



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