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## 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 Megabytes per second (MBps) native data-transfer rates and up to 6 Terabytes (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 one of the market leaders 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 recognised leading-edge – are just a few of the reasons why you should consider IBM storage offerings.

#### IBM TS3100 tape library at a glance

<b>Drive options</b>	LTO Ultrium 7 full-height: 8 Gigabits per second (Gbps) Fibre Channel (FC) (FC # 8444) LTO Ultrium 7 half-height: 6 Gbps Serial attached SCSI (SAS) (FC #8447); 8 Gbps FCI (FC# 8448) LTO Ultrium 6 full-height: 8 Gbps FC (FC # 8344) LTO Ultrium 6 half-height: 6 Gbps SAS (FC # 8347); 8 Gbps FC (FC # 8348) LTO Ultrium 5 full-height: 6 Gbps SAS (FC # 8245); 8 Gbps FCI (FC # 8244) LTO Ultrium 5 half-height: 6 Gbps SAS (FC # 8247); 8 Gbps FC (FC # 8248) LTO Ultrium 4 full-height: Low Voltage Differential (LVD) SCSI (FC # 8143); 3 Gbps SAS (FC # 8145); 4 Gbps FC (FC # 8144) LTO Ultrium 4 half-height: 6 Gbps SAS (FC # 8149); 8 Gbps FC (FC # 8148)
<b>Available models</b>	TS3100 tape library model L2U 3573 L2U (MTM)
<b>Optional feature codes</b>	
<b>Path Failover feature</b>	FC # 1682
<b>Transparent LTO encryption</b>	FC # 5900
<b>Rack mount</b>	FC # 7002
<b>Right-side magazine set</b>	FC # 8106
<b>Left-side magazine</b>	FC # 8109

<b>IBM TS3100 tape library at a glance</b>	
<b>LTO Ultrium tape cartridges</b>	LTO Ultrium 7 media: MT 3589 LTO Ultrium 6 media: FC # 8605 LTO Ultrium 5 media: FC # 8505 LTO Ultrium 4 media: FC # 8405
<b>LTO Ultrium cleaning cartridge</b>	FC # 8002
<b>Tape drive type</b>	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
<b>Number of drives</b>	1 – 2
<b>Number of tape cartridges</b>	24
<b>Number of mail slots</b>	1
<b>Physical capacity</b>	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
<b>Data transfer rate</b>	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
<b>Dimensions (W x H x D)</b>	
<b>Standalone</b>	17.6 in. (447.5 mm) x 3.84 in. (97.6 mm) x 31.9 in. (810 mm)
<b>Rack mount</b>	17.6 in. (447.5 mm) x 3.44 in. (87.6 mm) x 29.13 in. (740 mm)
<b>Weight</b>	33 lb (15 kg) without rack mount
<b>Operating environment</b>	
<b>Temperature</b>	50°F - 113°F (10°C - 45°C)
<b>Relative humidity (RH)</b>	10% - 80% RH (noncondensing)
<b>Electrical power</b>	4.0 amps at 100 V ac, 2.0 amps at 240 V ac 0.1 KVA
<b>Attachment support</b>	8 Gbps Fibre Channel 6 Gbps SAS interfaces LVD SCSI, 4 Gbps FC and 3 Gbps SAS interfaces (LTO Ultrium 4 full-height)
<b>Operating systems (OS) support</b>	Native device driver support is available for selected IBM System servers and other Linux® and Microsoft® Windows® open-system servers. Latest support information: <a href="http://ibm.com/systems/support/storage/config/ssic/displayesssearchwithoutjs.wss?start_over=yes">ibm.com/systems/support/storage/config/ssic/displayesssearchwithoutjs.wss?start_over=yes</a>
<b>Warranty</b>	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 (BP), or visit: [ibm.com/systems/storage/tape/ts3100](http://ibm.com/systems/storage/tape/ts3100)

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