IBM System Storage TS3100 Tape Library Express Model

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

Highlights

- Support the latest generation of Linear Tape-Open (LTO) technology with one LTO Ultrium 6 full-height tape drive or up to two LTO Ultrium 6 half-height tape drives, as well as LTO Ultrium 5 and 4 tape drives using a 2U form factor

- Support Fibre Channel attachment for half-height LTO Ultrium 6 and 5 tape drives

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

- Manage libraries remotely through a standard web interface that supports flexibility and improved administrative control over storage operations

The IBM® System Storage® TS3100 Tape Library Express® Model 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™, IBM System x® 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 6 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 6 tape drive. A larger internal data buffer in the full-height drive 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 6 tape cartridges, the LTO Ultrium 6 tape drive can read and write to LTO Ultrium 5 cartridges and read LTO Ultrium 4 cartridges with improved data rates. The LTO Ultrium 6 tape drive is designed to support up to 160 MBps native data-transfer rates and up to 2.5 TB native physical capacity when using the LTO Ultrium 2.5 TB data cartridge (6.25 TB with 2.5:1 compression). The TS3100, featuring LTO Ultrium 6 tape drives, has a capacity of up to 60 TB native (150 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 System Storage TS3100 Tape Library Express Model at a glance	
Drive options	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 or 95P5002); 3 Gbps SAS (FC # 8145 or 95P5006); 4 Gbps Fibre Channel (FC # 8144 or 95P5004) LTO Ultrium 4 half-height: 6 Gbps SAS (FC # 8149 or 46X7117); 8 Gbps Fibre Channel (FC # 8148 or 46X6912)
Available models	TS3100 Tape Library Model L2U Driveless 3573 L2U (MTM) 35732UL (HVEC)
Optional feature codes	
Path Failover feature	45E9503 or FC # 1682
Transparent LTO encryption	45E3081 or FC # 5900
Rack mount	23R6998 or FC # 7002
Right-side magazine set **Left-side magazine**	23R6999 or FC # 8106 45E2237 or FC # 8109

LTO Ultrium tape cartridges	LTO Ultrium 6 media: FC # 8605 LTO Ultrium 5 media: FC # 8505 LTO Ultrium 4 media: FC # 8405
LTO Ultrium cleaning cartridge	23R7008 or FC # 8002
Tape drive type	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 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 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 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/ displayessearchwithoutjs.wss?start_over=yes
Warranty	Three-year, customer-replaceable unit (CRU) service in most countries

For more information

To learn more about the IBM System Storage TS3100 Tape Library Express Model, please contact your IBM representative or IBM Business Partner, or visit: **ibm.com**/systems/storage/tape/ts3100

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