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IBM TS1070 Tape Drive

Seventh-generation LTO Ultrium tape drive for IBM enterprise tape libraries

Highlights

- Improve capacity and lower overall storage costs
- Simplify data management with IBM Spectrum Archive using LTFS technology
- Improve energy efficiency over previous generations
- Support media partitioning on Linear Tape-Open (LTO) Ultrium 7 media

The IBM TS1070 Tape Drive is the answer to growing storage requirements and shrinking backup windows. Incorporating the latest generation of industry-leading LTO technology, the TS1070 tape drive is suited for handling backup, save and restore, and archival data storage needs with higher capacity and higher data transfer rates than the previous generation. In addition, the LTO Ultrium 7 technology is designed to support media partitioning and IBM Spectrum Archive technology. It also continues to support data encryption and write-once-read-many (WORM) media.

With a physical storage capacity of up to 15 TB (with 2.5:1 compression), the TS1070 tape drive is an excellent tape storage solution for organizations requiring data backup and low-cost, archival data storage. The data transfer performance has increased over the previous LTO Ultrium half-height generation with a transfer rate of up to 300 MBps with 8 Gbps Fibre Channel (FC) interface connectivity. The drive offers two FC ports and one Ethernet port per drive to improve availability.

Advanced features

The TS1070 8 Gbps FC interface enables connection to a wide spectrum of open-system servers. The LTO Ultrium 7 tape media provides partitioning support, which in conjunction with IBM Spectrum Archive provides users with file-level access to tape data. This support helps users quickly locate and update information on the tape media.

The LTO Ultrium 7 technology is also designed to support data encryption. The hardware encryption and decryption core and control core reside in the LTO Ultrium 7 tape drive.

Software support

You can increase the power of the TS1070 tape drive in a TS3500 or TS4500 tape library by managing it with tape management solutions such as IBM Spectrum Protect or third-party storage software.

IBM Spectrum Archive gives organizations an easy way to use cost-effective IBM tape drives and libraries within a tiered storage infrastructure. By using tape libraries instead of disks for Tier 2 and Tier 3 data storage—data that is stored for long-term retention—organizations can improve efficiency and reduce costs.

IBM TS1170 Tape Drive

Media compatibility

The TS1070 tape drive supports the LTO Consortium compressed specification for LTO Ultrium 7 at a 15 TB data cartridge (6 TB native), 2.4 times the compressed capacity of the previous LTO Ultrium 6 cartridges. In addition to reading and writing to LTO Ultrium 7 tape cartridges, TS1070 can read and write to LTO Ultrium 6 cartridges and can read LTO Ultrium 5 cartridges.

IBM TS1070 Tape Drive at a glance

Available configurations	Model 3588 F7A—One LTO Ultrium 7 tape drive, 8 Gbps FC interface
	Model 3588 F7C—One LTO Ultrium 7 tape drive, 8 Gbps FC interface for IBM TS4500 tape libraries only
Tape drive type	LTO Ultrium 7
Physical capacity	6 TB native; 15 TB with 2.5:1 compression
Number of tape drives	1
Number of tape cartridges	1
Data transfer	Up to 300 MBps native
Media type	Read and write:
	LTO Ultrium 7
	6 TB data cartridge
	6 TB WORM cartridge
	LTO Ultrium 6
	2.5 TB data cartridge
	2.5 TB WORM cartridge
	Read only:
	LTO Ultrium 5
	1.5 TB data cartridge
	1.5 TB WORM cartridge
	Also available:
	LTO Ultrium cleaning cartridge
Weight	4.3 kg (9.5 lb)
Power requirements	100 – 240 V ac, 50 – 60 Hz auto-ranging
Dimensions (W x H x D)	148.26 mm x 84.76 mm x 210.50 mm (5.83 in. x 3.33 in. x 8.28 in.)
Warranty	Three-year limited warranty, customer replaceable unit (CRU) and on-site service in most countries, next-business-day 9x5, service upgrades available

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Why IBM?

The performance and availability of your storage environment can either enhance or hamper your business processes. As a storage market leader, IBM is powerfully positioned to help you handle the data archive challenges your users and your organization encounter.

Innovative technology, open standards, outstanding performance and a broad portfolio of storage-proven software, hardware and solutions offerings—all backed by IBM and its recognized storage leadership—give you the confidence that IBM storage solutions will meet your needs.

For more information

To learn more about the IBM TS1070 Tape Drive, please contact your IBM representative or IBM Business Partner, or visit:
ibm.com/systems/storage/tape/ts1070

Additionally, IBM Global Financing provides numerous payment options to help you acquire the technology you need to grow your business. We provide full lifecycle management of IT products and services, from acquisition to disposition. For more information, visit: ibm.com/financing

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