IBM TS2280 Tape Drive

Eighth-generation LTO Ultrium, half-height tape drive

Highlights

- Provide long-term data retention while lowering overall storage costs
- Enable intuitive and graphical access to data with IBM Spectrum Archive
- Store up to 30 TB of data with next-generation LTO Ultrium 8 technology
- Meet compliance requirements with write-once, read-many (WORM) support

Storage requirements have inevitably grown alongside rising data volumes in today's information-driven enterprises. Besides primary storage, backups have become increasingly important for disaster recovery and regulatory compliance. IBM TS2280 Tape Drive answers those business needs by incorporating the latest generation of industry-leading LTO technology that will help organizations handle the growing data demands of modern tape use cases like big data, cloud computing, Internet of Things (IoT), media and entertainment, digital video surveillance, active file archiving and, of course, for backup.

TS2280 provides even higher capacity than the previous generation. For small and midsized businesses requiring backup and low-cost archival storage of data, TS2280 is an excellent tape-storage solution, providing a physical storage capacity of up to 30 TB per cartridge (with 2.5:1 compression). The drive boasts an uncompressed data transfer rate of up to 300 MBps (up to 750 MBps with 2.5:1 compression) with 6 Gbps SAS interface connectivity. For flexible network integration, this compact external drive offers both two SAS ports and one Ethernet port, and can be rack mounted or used in stand-alone configuration. The dual SAS ports allow daisy-chaining a second SAS device.

Advanced features

The TS2280 6 Gbps SAS interface enables it to connect to a wide spectrum of open-system servers. The LTO Ultrium 8 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. LTO Ultrium 8 technology is also designed to natively support data encryption, with core hardware encryption and decryption capabilities resident in the LTO Ultrium 8 tape drive itself.

Software support

Management solutions such as IBM Spectrum Protect or third-party storage management software can extend the power of TS2280. IBM Spectrum Archive helps simplify access and management of TS2280 by enabling text-based file tagging, enabling more intuitive searches of drive content. This software creates an efficient “data footprint” to dynamically store every bit of data, helping maximize performance and ensure security.

Archiving enables storage of digital assets for the long term, so assets can be referenced and monetized for years to come.

IBM Spectrum Archive supports the tape-oriented LTFS and helps reduce complexity by enabling a graphical user interface to the tape drive’s contents using the operating system file manager. These features together help make tape-based data as easy to find and access as disk- or flash-based data. In addition, LTFS-capable tape drives are designed to be interchangeable among compatible LTO tape drives and supported operating systems, so administrators do not have to worry about hardware or software compatibility. With LTFS, managers can quickly access, store or archive files on tape, and transport files to and from different locations in a very easy to use format. Anyone who needs fast and reliable access to inactive, ‘cold,’ data—like movie and music producers, post production editors, broadcasters, digital video surveillance managers, and cloud and storage managers—now has an affordable solution to access and more easily archive high-quality files. LTFS opens the door to new uses and applications for LTO Ultrium tape, making tape easy and intuitive.

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Media

TS2280 Tape Drive supports the LTO Consortium compressed specification for LTO Ultrium 8, offering up to 30 TB of data storage per cartridge (12 TB native), twice the compressed capacity of the previous LTO Ultrium 7 cartridges. In addition to reading and writing to LTO Ultrium 8 tape cartridges, TS2280 can read and write to LTO Ultrium 7 cartridges. TS2280 supports the self-describing features of LTO tape cartridges for operational simplicity.

IBM TS2280 Tape Drive Specs. Table

IBM TS2280 Tape Drive at a glance	
Available configuration	Model 3580 H8S—One LTO Ultrium 8 tape drive, 6 Gbps SAS interface
Tape drive type	LTO Ultrium 8
Physical capacity	12 TB native; 30 TB with 2.5:1 compression
Number of tape drives	1
Number of tape cartridges	1
Data transfer rate	Up to 300 MBps native, up to 750 MBps with 2.5:1 compression
Media Type	Read and write: LTO Ultrium 8 • 12 TB data cartridge • 12 TB WORM cartridge LTO Ultrium 7 • 6 TB data cartridge • 6 TB WORM cartridge Also available: LTO Ultrium cleaning cartridge
Weight	4.3 kg (9.4 lb)
Power Requirements	100 – 240 V ac, 50 – 60 Hz auto-ranging
Dimensions	213 mm x 58 mm x 332 mm (8.4 in. x 2.3 in. x 13.1 in.)
Warranty	Three-year limited warranty, customer replaceable unit (CRU) and on-site service in most countries, next-business-day 9x5, service upgrades available

Why IBM?

The capacity, speed and reliability of your backup and archiving solutions are critical to your enterprise, along with the performance of your storage infrastructure as a whole. IBM offers market-leading experience to help you handle the storage challenges that your network or company faces with a broad portfolio of proven software, hardware and solutions offerings. Innovative technology in tune with recent innovations, a commitment to open standards and high performance—all backed by IBM with its recognized expertise—are just a few of the reasons why you should consider IBM storage offerings.

For more information

To learn more about IBM TS2280 Tape Drive please contact your IBM representative or IBM Business Partner, or visit: **ibm.com**/us-en/marketplace/ts2800

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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