

IBM TS2280 Tape Drive

Improve data capabilities with the eighth-generation LTO Ultrium, half-height tape drive



Highlights

Provide long-term data retention with efficient management capabilities

Enable intuitive and graphical access to data with IBM Storage 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

For today's information-driven enterprises, storage requirements and data volumes seem to be ever increasing. Primary and backup storage is also becoming increasingly important for disaster recovery and regulatory compliance. In order to address these challenges and better handle the growing data demands of modern tape use cases, enterprises need data solutions that incorporate the latest innovations in LTO technology.

IBM® TS2280 is a tape storage solution that offers next-generation storage capabilities with a physical capacity of up to 30 TB per cartridge and 2.5:1 compression. The drive boasts an uncompressed data transfer rate of up to 300 Mbps, or up to 750 Mbps with 2.5:1 compression, and 6 Gbps for SAS interface connectivity. For flexible network integration, this compact external drive offers two SAS ports and one Ethernet port and can be rack-mounted or used in a standalone configuration. To top it all off, the dual SAS ports allow for seamlessly daisy-chaining a second SAS device.

This storage system's 6 Gbps SAS interface supports connection to a long list of open-system servers. The LTO Ultrium 8 tape media provides partitioning support that can be used in conjunction with IBM Storage Archive to provide 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 onboard the LTO Ultrium 8 drive itself.



Provide long-term data retention with efficient management capabilities

Management solutions like IBM Storage Protect or third-party storage management software can extend the power of TS2280. IBM Storage Archive helps simplify access to and management of TS2280 by enabling text-based file tagging and more intuitive searches of drive content. This software creates an efficient data footprint to dynamically and completely store data, helping to maximize performance and security. Archiving capabilities further improve the longevity of storage for digital assets so they can be referenced and monetized for years to come.

Enable intuitive and graphical access to data with IBM Storage Archive

IBM Storage Archive supports tape-oriented linear tape file system (LTFS). This serves to reduce complexity by enabling access to the tape drive's contents through a graphical user interface in the file manager of the user's device's operating system. These features together help make tape-based data as easy to find and access as disk- or flash-based data.

LTFS-capable drives are designed to be interchangeable with compatible LTO tape drives and supported operating systems, so administrators can predict hardware and software compatibility. With LTFS, managers can quickly access, store or archive files on tape and transport them to and from different locations through an easy-to-use format. This offers an affordable solution for accessing and archiving high-quality files to anyone who needs fast and reliable access to inactive data, including:

- Movie and music producers
- Postproduction editors
- Broadcasters
- Digital video surveillance managers
- Cloud and storage managers

Store up to 30 TB of data with next-generation LTO Ultrium 8 technology

IBM TS2280 Tape Drive supports the LTO Consortium compression specification for LTO Ultrium 8, offering up to 30 TB of data storage per cartridge (12 TB native)—twice the compressed capacity of previous LTO Ultrium 7 cartridges. IBM TS2280 Tape Drive offers read and write capabilities for both LTO Ultrium 7 and LTO Ultrium 8 cartridges and supports their self-describing features.

Meet compliance requirements with write once, read many (WORM) support
IBM TS2280 Tape Drive Specifications

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 |

Conclusion

IBM TS2280 Tape Drive offers a remarkable combination of reliability, scalability and cost efficiency. It offers a secure and dependable solution for long-term data retention complete with advanced data encryption capabilities, high storage capacity and robust data integrity features. The compatibility of IBM TS2280 Tape Drive with various tape formats helps ensure seamless integration into existing infrastructures while its energy-efficient design contributes to reduced operating costs.

Why IBM?

The capacity, speed and reliability of your backup and archiving solutions are critical to your enterprise and the performance of its infrastructure as a whole. IBM offers market-leading experience and a broad portfolio of high-quality software, hardware and solutions to help you handle whatever storage challenges your network or organization may face.¹ Innovative technology in tune with recent innovations, a commitment to open standards and high performance—all backed by the recognized experience of IBM—are just a few of the reasons you should consider IBM Storage offerings.

For more information

To learn more about IBM TS2280 Tape Drive, contact your IBM representative or IBM Business Partner or visit ibm.com/products/ts2280. IBM Global Financing accepts multiple payment options to help you acquire the technology you need to grow your business. We provide full life-cycle management of IT products and services, from acquisition to disposition. For more information, visit ibm.com/financing.