

IBM TS2290 Tape Drive

Improve data capabilities with the ninth-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 45 TB of data with next-generation LTO Ultrium 9 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® TS2290 Tape Drive is a tape storage solution that offers next-generation storage capabilities with a physical capacity of up to 45 TB per cartridge and 2.5:1 compression. The drive boasts an uncompressed data transfer rate of up to 300 Mbps, or up to 1 Gbps with 2.5:1 compression, and 12 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.

The drive offers a 12 Gbps SAS interface capable of connecting to a long list of open-system servers. The LTO Ultrium 9 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 9 technology is also designed to natively support data encryption, with core hardware encryption and decryption capabilities onboard the LTO Ultrium 9 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 the IBM TS2290 Tape Drive. This software enables efficient organization of backup and recovery of data, helping to maximize performance and security. Removal of tapes from the IBM TS2290 Tape Drive provides air-gap protection for long-term retention data, without concern for data degradation.

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 45 TB of data with next-generation LTO Ultrium 9 technology

IBM TS2290 Tape Drive supports the LTO Consortium compression specification for LTO Ultrium 9, offering up to 45 TB of data storage per cartridge (18 TB native)—150% of the compressed capacity of previous LTO Ultrium 8 cartridges. IBM TS2290 Tape Drive offers read and write capabilities for both LTO Ultrium 8 and LTO Ultrium 9 cartridges and supports their self-describing features.

Meet compliance requirements with write once, read many (WORM) support
IBM TS2290 Tape Drive Specifications

IBM TS2290 Tape Drive at a glance

Available configuration	Model 3580 H9S—One LTO Ultrium 9 tape drive, 12 Gbps SAS interface
Tape drive type	LTO Ultrium 9
Physical capacity	18 TB native; 45 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 1 Gbps with 2.5:1 compression
Media type	Read and write: LTO Ultrium 9 <ul style="list-style-type: none">– 18 TB data cartridge– 18 TB WORM cartridge Read and write: LTO Ultrium 8 <ul style="list-style-type: none">– 12 TB data cartridge– 12 TB WORM 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

The IBM TS2290 Tape Drive is ideal for small and midsized businesses requiring affordable and efficient backup and archival solutions for data storage challenges. It offers a long list of advanced capabilities, including connectivity to a wide array of open-system services, to help users quickly locate and update information on the tape media. The solution's ability to streamline access to inactive data helps to make file storage processes easier to manage. Advanced archiving features further optimize cost savings and utility.

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 TS2290 Tape Drive, contact your IBM representative or IBM Business Partner or visit ibm.com/products/ts2290. 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.

1. Worldwide Branded Tape Share Report Four Quarter
Roll-Up Through 2Q 2022, IBM, 2022.

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