IBM TS2280 & TS2290 Tape Drives

LTO Ultrium, half-height tape drives

Outstanding Solutions

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.

The IBM TS2280 and TS2290 Tape Drives are excellent tape storage solutions for small and mid-sized businesses that require backup and low-cost archival data storage. These tape drives incorporate the latest generation of industry-leading LTO technology that helps organizations to 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 backup.

The TS2280 Tape Drive claims a physical capacity of 12TB (up to 30TB with 2.5:1 compression). The drive supports uncompressed data transfer rate of up to 300MBps with 6Gbps SAS interface connectivity. Additionally, the TS2280 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.

The TS2290 Tape Drive provides even higher capacity than the previous generation, with a native storage capacity of 18TB (up to 45TB per cartridge with 2.5:1 compression).

The drive boasts an uncompressed data transfer rate of up to 300MBps (up to 750MBps with 2.5:1 compression) with 12Gbps SAS interface connectivity. For flexible network integration, this compact external drive offers two SAS ports, 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 SAS interface of these tape drives enables them to connect to a wide spectrum of open-system servers. The LTO Ultrium 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 technology is also designed to natively support data encryption, with core hardware encryption and decryption capabilities resident in the LTO 9, 8, or 7 Ultrium tape drive itself.

Software Support

Management solutions such as IBM Storage Protect or third-party storage management software can extend the power of the TS2280 and TS2290. This software helps simplify access and management 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 Linear Tape File System (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 in need of 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.
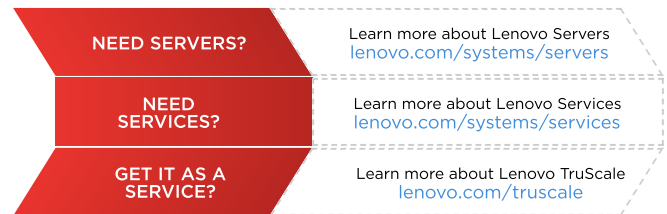
Specifications

Available configuration	IBM TS2290 - LTO Ultrium 9 tape drive, 12Gbps SAS interface	IBM TS2280 - One LTO Ultrium 8 tape drive, 6Gbps SAS interface
Physical capacity	18TB native; 45TB with 2.5:1 compression	12TB native; 30TB with 2.5:1 compression
Number of tape drives / cartridges	1/1	1/1
Data transfer rate	Up to 300 Mbps native, up to 1 Gbps with 2.5:1 compression	Up to 300 Mbps native, up to 750 Mbps with 2.5:1 compression
Media type	Read and write: LTO Ultrium 9 and LTO Ultrium 8 18TB data cartridge	Read and write: LTO Ultrium 8 and LTO Ultrium 7 12TB data cartridge
Weight	4.3kg (9.5 lbs)	
Power requirements	100 – 240V ac, 50 – 60Hz auto-ranging	
Dimensions (W x H x D)	213 mm x 58 mm x 332 mm (8.4 in. x 2.3 in. x 13.1 in.)	
Warranty	3-year limited warranty, customer replaceable unit (CRU) and on-site service in most countries, next-business-day 9x5, service upgrades available	

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US$62 billion revenue global technology powerhouse, ranked #171 in the Fortune Global 500, employing 77,000 people around the world, and serving millions of customers every day in 180 markets. Focused on a bold vision to deliver smarter technology for all, Lenovo is expanding into new growth areas of infrastructure, mobile, solutions and services. This transformation is building a more inclusive, trustworthy, and sustainable digital society for everyone, everywhere.

For More Information

To learn more about the TS2290 & TS2280 Tape Drives, contact your Lenovo representative or Business Partner, or visit lenovo.com/storage. For more details, read the Product Guide.

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