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## **Product Datasheet**

# **IBM UltraScalable Tape Library 3584**

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An UltraScalable, ultra-flexible tape library for backup and archival solutions



## IBM TotalStorage™ UltraScalable Tape Library 3584



IBM TotalStorage UltraScalable Tape Library 3584 with 16 frames

### Highlights

- **Offers 16-frame capacity, performance, and reliability for midrange and network tape storage environments**
- **Provides an UltraScalable solution to help protect your technology investment**
- **Patented Multi-path Architecture helps increase configuration flexibility with logical library partitioning**
- **Adheres to widely supported Linear Tape-Open™ (LTO) Ultrium™ design specifications**
- **Offers native switched fabric 2Gb Fibre Channel LTO Ultrium 2 Drives**

### IBM TotalStorage UltraScalable Tape Library—A flexible solution

From midrange systems to large-scale server-based operations, the IBM TotalStorage UltraScalable Tape Library is designed to handle backup, archive, and disaster recovery data storage needs with ease.

### Advanced features

The IBM TotalStorage UltraScalable Tape Library 3584 now supports up to 16 frames housing a maximum of 6,881 tape cartridges and 192 Ultrium tape drives. Support for the IBM TotalStorage Ultrium 2 Tape Drive more than doubles tape drive performance over the first generation LTO Ultrium Tape Drive and is designed to support up to 35MB/sec native data transfer rates (70MB/sec with 2:1 compression). In addition, with the use of the new IBM TotalStorage LTO Ultrium 200GB Data Cartridge, the IBM TotalStorage Ultrium 2 Tape Drive

doubles the tape cartridge capacity up to 200GB native capacity (400GB with 2:1 compression).

The IBM TotalStorage Ultrium 2 Tape Drives can read and write original LTO Ultrium data cartridges at first generation Ultrium 1 capacities with improved performance. The Ultrium 2 tape drives and cartridges can be resident in the same 3584 Library frame with first generation Ultrium tape drives and Cartridges. The UltraScalable Tape Library is designed with a variety of advanced features. IBM's Multi-path Architecture is designed to simultaneously attach heterogeneous servers and applications to LTO logical library partitions, including mixed Ultrium drives and media.

Remote management capabilities using a Web browser provides library control and configuration. Simple Network Management Protocol (SNMP) functionality is also included. Hot swap drives, data path failover and load balancing and redundant power supplies offer enhanced availability. New control path failover for AIX, dual AC power and 110 volt power options are also available.

### Software support

You can maximize the power of the UltraScalable Tape Library by managing it with industry-leading tape management solutions such as Tivoli®

## IBM TotalStorage UltraScalable Tape Library 3584 at a glance

Model number L32—LTO base frame; D32—LTO expansion frame

### Characteristics

Tape drive type	IBM LTO Ultrium 2 or 1
Number of frames	One base frame and up to 15 expansion frames
Number of drives	Up to 192: L32—1 to 12 LTO; D32—0 to 12 LTO
Number of tape cartridges	Up to 6,881: L32—87 to 281; D32—396 to 440
Number of logical libraries	Up to 192: L32—up to 12; D32—up to 12
Capacity <sup>1,2</sup>	2,752 TB compressed, in a 16-frame configuration with four drives L32 (1-4 drives)—Up to 112.4 TB/frame compressed; 56.2 TB native D32 (0 drives)—Up to 176 TB/frame compressed; 88.0 TB native
Sustained data transfer rate <sup>2</sup>	LTO Ultrium 2: Up to 70 MB/sec compressed; 35 MB/sec native
Measured aggregate sustained data rate <sup>2</sup>	Up to 47.4TB/hour with 192 LTO Ultrium 2 tape drives (compressed) <sup>2</sup>
Media type	IBM TotalStorage LTO Ultrium 200 GB Data Cartridge (P/N 08L9870) IBM TotalStorage LTO Cleaning Cartridge (P/N 35L2086)
Dimensions (L32 or D32)	70.9" H x 28.5" W x 59.8" D (1800 mm x 725 mm x 1520 mm)
Max. weight	L32—1236.0 lb (539.4 kg); D32—1161.9 lb (527.0 kg)
Warranty	One year; IBM On-site Repair (IOR)

### Operating environment

Temperature	16° to 32° C (60.8° to 89.6° F)
Relative humidity	20% to 80% (non-condensing)
Wet bulb maximum	23.0° C (73.4° F)
Electrical power	8 amps at 200-240 VAC; 1.6 kVA, 1.4 kilowatt nominal 12 amps at 100-127 VAC; 1.2kVA, 1.2 Kilowatt nominal
Noise level	7.5 bels; 51 dBA operating

### Attachment and systems support<sup>3</sup>

The IBM 3584 features LTO Fibre Channel, LVD Ultra2/Wide or Ultra160 SCSI and HVD Ultra SCSI interfaces, attaching to IBM @server pSeries™, IBM @server iSeries™, IBM @server xSeries™, RS/6000®, RS/6000 SP, AS/400®, and Netfinity® systems, and non-IBM servers and workstations

### Operating systems support<sup>3</sup>

Device driver support is available for AIX®, OS/400®, Windows NT®, Windows® 2000; Windows 2003; Sun Solaris; and HP-UX.

<sup>1</sup> Capacity depends on the number of drives installed versus the number of tape cartridges used

<sup>2</sup> Based on 2:1 compression

<sup>3</sup> For latest information, consult Technical Support at [www.ibm.com/totalstorage/lto](http://www.ibm.com/totalstorage/lto)

Storage Manager or other storage software.

### Why IBM LTO?

IBM LTO Ultrium drives share best-of-breed technology. Advanced multi-track

recording capabilities, state-of-the-art magneto-resistive (MR) heads, and a sophisticated track following servo system work together to produce extremely high recording densities.

New Ultrium 2 drive enhancements include digital speed matching, power management, channel calibration and 512 data tracks. Error correction code (ECC) function and Statistical Analysis and Reporting System (SARS) help support data integrity.

### For more information

For more information, contact your IBM representative or your IBM Business Partner. For updated attachment, supported operating system, media product, and storage management software information, visit [www.ibm.com/totalstorage/lto](http://www.ibm.com/totalstorage/lto).



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