

UltraScalable Tape Library



Highlights

- **Offers breakthroughs in capacity, performance, and reliability for midrange and network tape storage environments**
- **Provides an UltraScalable solution to help protect your technology investment**
- **Exclusive multipath architecture increases configuration flexibility with logical library partitioning**
- **Adheres to widely supported Linear Tape-Open™ (LTO) Ultrium™ design specifications**
- **Offers exclusive native Fibre Channel LTO Ultrium Drives**

IBM UltraScalable Tape Library— A flexible solution

In today's business environment, the number of clients and servers continues to grow almost exponentially. From midrange systems to large-scale server-based operations, the UltraScalable Tape Library is designed to handle backup, archive, and disaster recovery data storage needs with ease.

Advanced features

The UltraScalable Tape Library has a variety of advanced technical features. The multi-path architecture is designed to enable you to simultaneously attach heterogeneous servers and applications to LTO and DLTape™ logical library partitions.

Remote management capabilities using a Web browser provides library control and configuration. Simple Network Management Protocol (SNMP) functionality is also included. LTO I/O expansion capability is available with a 20-cartridge option, which can be added to the standard 10-cartridge feature. Hot swap drives and redundant power offer enhanced availability. The standard dual media picker has a barcode scanner for optical cartridge recognition. To help provide data integrity, the library performs a fast auto-inventory any time it is opened. A touch-screen LCD panel enables

convenient local review of library status and provides control over local functions.

Software support

You can maximize the power of the UltraScalable Tape Library by managing it with industry-leading tape management solutions such as Tivoli® Storage Manager or other storage software. These solutions offer highly automated, centrally scheduled, policy-managed backup and archive facilities to protect data in distributed enterprises.

Why IBM LTO?

LTO is an open tape architecture developed by a consortium of three world-class storage producers. Open means availability from multiple vendors. IBM means a new technology from a time-proven and innovative tape technology leader.

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. Error correction code (ECC) function helps provide data integrity.

IBM and IBM authorized providers also provide service and technical support when you invest in an IBM LTO

IBM 3584 UltraScalable Tape Library at a glance

Model number	L32—LTO base frame; D32—LTO expansion frame; D42—DLT tape expansion frame
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Characteristics

Tape drive type	IBM LTO Ultrium or DLT 8000
Number of frames	One base frame and up to five expansion frames
Number of drives	Up to 72: L32—1 to 12 LTO; D32—0 to 12 LTO; D42—0 to 12 DLT 8000
Number of tape cartridges	Up to 2481: L32—87 to 281; D32—396 to 440; D42—322 to 360
Number of logical libraries	Up to 72: L32—up to 12; D32—up to 12; D42—up to 6
Capacity ^{1,2}	496.2 TB compressed maximum, six-frame configuration L32 (1-4 drives)—Up to 56.2 TB/frame compressed; 28.1 TB native D32 (0 drives)—Up to 88.0 TB/frame compressed; 44.0 TB native D42 (1-4 drives)—Up to 276 TB/frame compressed; 13.8 TB native
Sustained data transfer rate ²	LTO: Up to 30 MB/sec compressed; 15 MB/sec native DLT 8000: Up to 12 MB/sec compressed; 6 MB/sec native
Aggregate sustained data rate ²	Up to 7.8 TB/hour with 72 LTO Ultrium tape drives (compressed) ²
Media type	IBM Ultrium or DLT tape IV
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); D42—1227 lbs (557 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	6 amps at 200-240 VAC; 1.2 kVA, 1.0 kilowatt nominal
Noise level	6.8 bels; 48 dBA operating

Attachment and systems support³

The IBM 3584 features LTO Fibre Channel, Ultra2/Wide SCSI LVD and Ultra/Wide SCSI HVD drive 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, workstations, and personal computers.

Operating systems support³

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

¹ Capacity depends on the number of drives installed versus the number of tape cartridges used

² Based on 2:1 compression

³ For latest information, consult Technical Support at www.ibm.com/storage/lto

Ultrium solution—including a complete array of servers, software, printers, and storage devices.

Media

You can order media for the Ultra Scalable Tape Library via IBM Machine Type 3589 or from IBM Media, Supplies

Distribution, and authorized dealers. Call 1-888-IBM-Media (1-888-426-6334) toll-free in the United States and Canada.

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/storage/lto.



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