

Ultrium Tape Autoloader



Highlights

- **Offers breakthroughs in capacity, performance, and reliability for midrange and network tape storage environments**
- **Provides autoloading capabilities with Ultrium™ tape drives**
- **Enables cost-effective backup, save/restore, and archival storage**
- **Provides continuous, easy-to-understand drive information with an LCD status display**
- **Adheres to widely supported Linear Tape-Open™ (LTO™) design specifications**

IBM Ultrium Tape Autoloader

Today, all types of businesses rely on data as a key corporate asset. You must be able to access data quickly and reliably, archive large databases and retrieve them when needed, and complete these tasks

economically—whether you are using a high-performance network server or an individual workstation. Especially if you work with large amounts of data, you need a high-capacity storage solution that can minimize tape changes and operator errors while lowering administrative overhead.

The IBM Ultrium Tape Autoloader is an ideal solution for handling backup, save/restore, and archival data storage needs for small- to medium-size environments. With its single Ultrium drive and up to seven tape cartridges, the IBM Autoloader is designed to fully leverage Linear Tape-Open (LTO) technology to cost-effectively handle growing storage requirements.

As your storage needs grow, you can build on this investment by moving to the IBM Ultrium Scalable Tape Library (compressed data capacity of up to 14.4 TB) or the IBM UltraScalable Tape Library (compressed data capacity of up to 496.2 TB).

Advanced features

With its higher capacity and performance, the IBM Autoloader is an excellent alternative to DLT, 1/4-inch, 4 mm, or 8 mm tape drives. The IBM Autoloader has a maximum media capacity of 1.4 TB of compressed data with a sustained data transfer rate of up to 30 MB/sec (compressed). The sequential or random access

autoloader can fit into the same space as multiple stand-alone drives. In addition, two IBM Autoloader units can be rack-mounted side-by-side—taking up only seven vertical inches.

The IBM Autoloader has an LCD display and indicators for power, drive and autoloader activity, error status, and message information. Controls for display, mode, and power are also available.

The IBM Autoloader features Ultra2/Wide SCSI Low Voltage Differential (LVD) or Ultra/Wide SCSI High Voltage Differential (HVD) interfaces and can attach to IBM and non-IBM servers, workstations, and personal computers that support these interfaces. As a SCSI-attached tape solution, the IBM Autoloader connects to Fibre Channel server adapters through selected IBM Storage Area Network Data Gateway products. Future plans include Fibre Channel-Arbitrated Loop (FC-AL) attachment and an optional barcode reader.

Software support

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

IBM 3581 Ultrium Tape Drive at a glance

Model numbers	L17—LVD attach; H17—HVD attach
Rack-mount feature code	7003

Characteristics

Tape drive type	Ultrium
Number of drives	1
Number of tape cartridges	7
Capacity per cartridge ¹	Up to 200 GB per cartridge compressed; 100 GB native Up to 1.4 TB per autoloader compressed; 700 GB native
Sustained data transfer rate ¹	Up to 30 MB/sec compressed; 15 MB/sec native
Aggregate sustained data rate ¹	Up to 108 GB/hour compressed
Media type	IBM Ultrium
Data cartridge	Part number 08L9120
Cleaning cartridge	Part number 08L9124
Dimensions	7.48" H x 8.62" W x 22.87" D (19.0 cm x 21.9 cm x 58.1 cm)
Weight	28.7 lb (13.0 kg)
Warranty	One year; IBM On-site Exchange (IOE)

Operating environment

Temperature	10° to 38° C (50° to 100° F)
Relative humidity	20% to 80% (non-condensing)
Electrical power	1.3-0.7 amps at 100-240 VAC, 50/60 Hz

Attachment and systems support²

The IBM 3581 features Ultra2/Wide SCSI LVD and Ultra/Wide SCSI HVD interfaces, attaching to IBM RS/6000®, IBM RS/6000 SP, IBM AS/400®, and IBM Netfinity® systems, and non-IBM servers, workstations, and personal computers. As a SCSI-attached tape solution, the IBM 3581 connects to Fibre Channel server adapters through selected IBM Storage Area Network Data Gateway products. Future plans include Fibre Channel-Arbitrated Loop (FC-AL) attachment.

Operating systems support²

Native device driver support is available for AIX® V4.3.2 or 4.3.3; OS/400® V4R4; Windows NT® Version 4.0 with Service Pack 6.0; Windows® 2000; Sun® Solaris® 2.6, 7, or 8; HP-UX Version 11.0; and Red Hat® Linux® 7.0.

¹ Based on 2:1 compression

² For latest information, consult Technical Support at www.ibm.com/storage/lto

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 Ultrium drives share best-of-breed technology with advanced multi-track recording capabilities, magneto-resistive (MR) head and servo technologies, and high recording densities. Error

correction code (ECC) function helps provide data integrity.

IBM also provides worldwide service and technical support when you invest in an IBM Ultrium solution—including a complete array of servers, software, printers, and storage devices.

Media

You can order media for the IBM Autoloader Ultrium Tape Autoloader at the time of purchase or 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 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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IBM Corporation
Storage Systems Group
5600 Cottle Road
San Jose, CA 95193

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