

*Ultrium tape technology with autoloading capabilities
for backup and archival solutions*



3581 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 3581 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 3581 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 3581 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 3583 Ultrium Scalable Tape Library (compressed data capacity of up to 14.4 TB) or the IBM 3584 UltraScalable Tape Library (compressed data capacity of up to 496.2 TB).

Advanced features

With its higher capacity and performance, the IBM 3581 is an excellent alternative to DLT, 1/4-inch, 4 mm, or 8 mm tape drives. The IBM 3581 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 standalone drives. In addition, two IBM 3581 units can be rack-mounted side-by-side—taking up only seven vertical inches.

The IBM 3581 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 3581 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 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 and an optional barcode reader.

Software support

You can maximize the power of the IBM 3581 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.

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 3581 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.



www.ibm.com/storage/lto

© Copyright IBM Corporation 2000

IBM Storage Subsystems Division
Removable Media Storage Solutions
9000 S. Rita Road
Tucson, AZ 85744

Produced in the United States
5-00

All Rights Reserved

* IBM, AIX, AS/400, Netfinity, OS/400, and RS/6000 are registered trademarks of International Business Machines Corporation.

** Linear Tape-Open, LTO, the LTO logo, Ultrium, and the Ultrium logo are U.S. trademarks of HP, IBM, and Seagate. Tivoli is a registered trademark of Tivoli Systems, Inc. Windows and Windows NT are registered trademarks of Microsoft Corporation. Other company, product, and service names may be trademarks or registered trademarks of their respective companies.

Performance data contained herein was obtained in a controlled environment. Actual results that may be obtained in other operating environments may vary significantly. These values do not constitute a guarantee of performance.

IBM hardware products are manufactured from new parts, or new and used parts. In some cases, the hardware product may not be new and may have been previously installed. Regardless, our warranty terms apply.

IBM reserves the right to alter specifications and other product information without prior notice.

Photography depicts design models. Actual product may show slight variations.

This document contains forward-looking statements about future development plans. Such plans are subject to change by IBM without prior notice.



IBM 3581 Ultrium Tape Autoloader at a glance

Model number	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 Onsite 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 V AC, 50/60 Hz

Attachment and systems support

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 support

Native device driver support is available for AIX* V4.3.2 or 4.3.3; OS/400* V4R3 or V4R4; Windows NT** Version 4.0 with Service Pack 6.0; and Windows** 2000. Future support plans include Sun Solaris 2.6 or Solaris 7 and HP-UX Version 11.0.

¹ Based on 2:1 compression