

## Ultrium External Tape Drive



---

### Highlights

---

- ***Offers capacity, performance, and reliability for midrange and network tape storage environments***
- ***Provides an entry-level Ultrium™ tape solution***
- ***Supports 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™) standards***

### **IBM Ultrium External Tape Drive**

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.

The IBM Ultrium External Tape Drive is one building block of a family of scalable, flexible tape solutions. By leveraging advanced Linear Tape-Open (LTO) technology, the IBM Tape Drive is suited for handling the backup, save/restore, and archival data storage needs of a wide range of small systems.

The IBM Ultrium External Tape Drive has a capacity of up to 200 GB with compression (2:1). As your needs grow, you can build on this storage investment by moving to the IBM Tape Autoloader (2:1 compressed data capacity of up to 1.4 TB). As your storage requirements continue to grow, you can choose the IBM Ultrium Scalable Tape Library (2:1 compressed data capacity of up to 14.4 TB) or the IBM UltraScalable Tape Library (2:1 compressed data capacity of up to 496.2 TB).

The tape media is interchangeable among all four devices.

With its higher capacity and performance, the IBM Ultrium External Tape Drive is an excellent alternative to DLT, 1/4-inch, 4 mm, or 8 mm tape drives. It has a sustained data transfer rate of up to 30 MB/sec (compressed 2:1).

### **Advanced features**

The IBM Ultrium External Tape Drive 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 Ultrium External Tape Drive 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.

The IBM 3580 has an LCD display and indicators for write protection, tape in use, drive cleaning, and data compression.

### **Software support**

You can increase the power of the IBM Ultrium External Tape Drive by managing it with tape management solutions such as Tivoli® Storage Manager or other third party storage software. With such software, the IBM Ultrium External Tape Drive can support highly automated, centrally scheduled,

## IBM 3580 Ultrium External Tape Drive at a glance

Model numbers	L11—LVD attach; H11—HVD attach; one year on-site warranty L13—LVD attach; H13—HVD attach; three year customer exchange warranty
---------------	--

Rack-mount feature code	8723
-------------------------	------

### Characteristics

Tape drive type	Ultrium
Capacity per cartridge <sup>1</sup>	Up to 200 GB compressed; 100 GB native
Sustained data transfer rate <sup>1</sup>	Up to 30 MB/sec compressed; 15 MB/sec native
Aggregate sustained data rate <sup>1</sup>	Up to 108 GB/hour compressed
Media type	IBM Ultrium
Data cartridge	Part number 08L9120
Cleaning cartridge	Part number 08L9124
Dimensions	5.75" H x 6.74" W x 13.11" D (14.6 cm x 17.1 cm x 33.3 cm)
Weight	14.3 lb (6.6 kg)
Warranty	L11; H11 - One year; IBM On-site Exchange (IOE) L13; H13 - Three year, Customer Element Exchange (CEE)

### Operating environment

Temperature	10° to 38° C (50° to 100° F)
Relative humidity	20% to 80% (non-condensing)
Electrical power	1.0-0.5 amps at 100-240 VAC, 50/60 Hz

### Attachment and systems support<sup>2</sup>

The IBM 3580 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 3580 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<sup>2</sup>

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; and Windows® 2000; Sun® Solaris® 2.6, 7, or 8; HP-UX Version 11.0; and Red Hat® Linux® 7.0.

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 support 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 Ultrium External Tape Drive 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](http://www.ibm.com/storage/lto).



© International Business Machines Corporation 2001

IBM Corporation  
Storage Systems Group  
5600 Cottle Road  
San Jose, CA 95193

Produced in the United States of America  
9-02

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.



G225-6854-02