

High capacity, performance and reliability in a tape storage solution for open server environments



IBM TotalStorage™ LTO Ultrium 200 GB Data Cartridge



IBM TotalStorage LTO Ultrium 200 GB Data Cartridge

Highlights

- **Provides capacity, performance and reliability for midrange and network tape automated storage environments**
- **Contains half-inch metal particle tape; cartridges feature a native data capacity of 200 GB and a compressed data capacity of 400 GB (2:1 compression)**
- **Includes a Linear Tape-Open™ Cartridge Memory (LTO™-CM) chip that contains cartridge specific information to communicate with Ultrium tape drives during loading/unloading via a radio frequency component**
- **Adheres to widely supported Linear Tape-Open (LTO) Ultrium 2 design specifications**

High capacity

By combining high storage capacity (200 GB native, 400 GB with 2:1 compression), performance, and reliability, the IBM TotalStorage LTO Ultrium 200 GB Data Cartridges continue the IBM focus on enhancing tape technology. These cartridges are part of a long line of IBM data cartridges that help provide quality and reliability for organizations around the world.

Cost-effective design

Increasing cartridge capacity and performance can help reduce the amount of equipment, space and human intervention required for daily tape operations. In addition, reducing the number of cartridges needed for backup and restore operations can help lower operational costs throughout the enterprise.

Advanced LTO-CM chip

IBM TotalStorage LTO Ultrium 200 GB Data Cartridges, along with IBM Ultrium 2 drives, support the Linear Tape-Open Cartridge Memory (LTO-CM) chip, which enables the IBM Ultrium 2 tape drive to read and write to the data cartridge by using a radio frequency transmission. The LTO-CM enables fast, simultaneous transfer of cartridge-dependent data with IBM Ultrium 2 tape drives during media load and unload cycles. This simultaneous exchange is designed to improve data access speeds by eliminating the need to read/write cartridge-dependent data from the media after it is loaded or before it is unloaded.

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.

The IBM TotalStorage LTO Ultrium 200 GB data cartridge, with a compressed capacity of up to 400 GB (2:1 compression), can be used in products featuring Ultrium 2 tape drives. As your storage needs grow, your data cartridge can continue providing value to help maximize your investment.

IBM TotalStorage LTO Ultrium 200 GB Data Cartridge at a glance

Characteristics

Drive type	Linear serpentine recording half-inch cartridge
Media type	Metal Particle (MP)

Cartridge capacity (with 2:1 compression)

LTO Ultrium 200 GB Data Cartridge	400 GB
-----------------------------------	--------

Physical and magnetic characteristics

Substrate	Polyethylene Naphthalate (PEN)
Substrate thickness	0.0025in (6.5 microns)
Total tape thickness	0.0035 in (8.9 microns)
Tape length	2000 ft (610m)
Magnetic coercivity	147,218 A/m or 1850 Oe
Long-length durability	260 full file passes
Short-length durability	5000 load, unload, and initialization cycles
Estimated archive life	Up to 30 years (signal decay of less than 5 percent)

Physical dimensions

Cartridge size	4.02 in L x 4.15 in W x 0.85 D (102.0mm x 105.4mm x 21.5mm)
Data cartridge weight	0.463 lbs (210 grams)
Cleaning cartridge weight	0.254 lbs (115 grams)

Safety characteristics

Toxicity	Nonhazardous to human health in anticipated use
Flammability	Self-extinguishing per UL94

Environmental recommendations

Operating conditions	50-104° F (10-40° C); 20-80% RH; 79° F (26° C) wet bulb max
Storage conditions	61-90° F (16-32° C); 20-80% RH; 79° F (26° C) wet bulb max
Shipping conditions	-9 to 120° F (-23 to 49° C); 20-80% RH; 79° F (26° C) wet bulb max
Cartridge disposal	Classified as nonhazardous waste per EPA regulation 40CFR261; can be disposed of as normal office trash

Part numbers

LTO Ultrium Data Cartridge	08L9870
LTO Ultrium Cleaning Cartridge	35L2086 (useful life of this cartridge is 50 cleans)

Warranty

Limited lifetime warranty	5 years (manufacturing defects only)
---------------------------	--------------------------------------

Sales and support

To locate your nearest source for ordering, support, warranty, or product-related questions regarding the IBM TotalStorage LTO Ultrium 200 GB Data Cartridge, visit www.ibm.com/totalstorage/media.

You can obtain custom labeling from the referenced suppliers, as well as a list of country-specific phone numbers.

Tell me more

For more information, contact your IBM representative or IBM Business Partner. Or visit the IBM LTO page at www.ibm.com/totalstorage/lto



© Copyright IBM Corporation 2003

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

Produced in the United States of America
01-03
All Rights Reserved

IBM is a registered trademark of International Business Machines Corporation.

Linear Tape-Open, LTO, the LTO logo, Ultrium, and the Ultrium 2 logo are U.S. trademarks of HP, IBM, and Seagate. 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 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.



TSD00256-USEN-00
G225-6971-00