IBM LTO Ultrium 6 Data Cartridge

High-capacity tape media designed for reliability and longevity

Highlights

- Achieve increased capacity

- Ensure optimal data security

- Support IBM® Linear Tape File System™

- Meet stringent Linear Tape-Open (LTO) Ultrium Generation 6 specifications

- Choose between rewritable and write-once-read-many (WORM) models

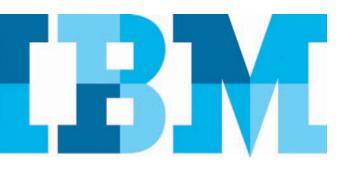- Utilize custom as well as blank and RFID-embedded cartridge labels

Overview

Organizations have more data than ever before to manage, protect and preserve for longer periods of time. They must balance between mitigating risks and reducing costs when making data storage investment decisions. The IBM LTO Ultrium 6 Data Cartridge is designed to help organizations manage explosive data growth; sustain rapid, reliable access to data; and ensure business resilience.

Increased capacity

Rapid data growth compounds the need for increased storage capacity. The sixth generation of LTO Ultrium tape media delivers 2.5 TB native capacity and up to 6.25 TB of compressed capacity for even greater efficiency and performance. This exceptional capacity helps reduce the number of cartridges and the amount of equipment, space and labor associated with tape-based data storage.

Optimal data security

To comply with regulatory requirements and preserve stakeholder trust, organizations must protect data from unauthorized access and unintentional loss. Tape cartridge portability facilitates remote, offline data storage for superior protection from natural or manmade threats that can impact online or onsite data storage. IBM LTO Ultrium 6 data cartridges are compatible with LTO Ultrium 6 tape drives, which offer device-level data encryption to ensure data privacy and reduce the risk of data corruption due to virus or sabotage. The WORM cartridge model stores data in a non-erasable, non-rewritable format to prevent overwriting of stored data and reduce the risk of data loss due to human error.

Linear Tape File System support

LTO Ultrium 6 supports tape partitioning and Linear Tape File System (LTFS), making tape storage an even more compelling solution for data protection and preservation. With LTFS, the data files are indexed to facilitate search and retrieval using disk-like directory tree structures and drag-and-drop techniques. LTFS allows users and applications to directly retrieve files from tape rather than rely on proprietary, third-party applications, thereby significantly enhancing data access and potentially reducing software licensing costs and dependencies.

Feature	Benefits
2.5 TB native cartridge capacity **Up to 6.25 TB capacity with 2.5:1 data compression**	• Reduces the number of cartridges and amount of equipment, space and labor associated with tape-based data storage • Drives storage efficiencies and helps contain infrastructure costs
Tape cartridge portability	• Facilitates remote, offline data storage for superior protection from natural or manmade threats • Reduces risk of data loss or corruption
Linear Tape File System support†	• Enables data file search and retrieval using directory tree structures and drag-and-drop techniques • Significantly enhances data access and retrieval • Potentially reduces or eliminates software licensing costs and dependencies for data retrieval from tape
Adherence to Linear Tape-Open Ultrium 6 standard	• Ensures compatibility with LTO Ultrium 6 vendors' tape drive and automation products • Reduces data storage investment risk by utilizing open standards-based tape technology

IBM LTO Ultrium 6 Data Cartridge at a glance

General characteristics

Media type	Linear serpentine recording half-inch cartridge
Data capacity	2.5 TB native Up to 6.25 TB with 2.5:1 data compression
Cartridge models	LTO Ultrium 6 2.5 TB rewritable Data Cartridge LTO Ultrium 6 2.5 TB non-erasable, non-rewritable WORM Cartridge

Tape characteristics

Total tape thickness	6.1 μ (0.00024 in.)
Tape length	885 m (2903 ft)

Cartridge characteristics

Cartridge size (L x W x D)	102.0 mm x 105.4 mm x 21.5 mm (4.02 in. x 4.15 in. x 0.85 in.)
Data cartridge weight	200 g (0.441 lb)
Cleaning cartridge weight	115 g (0.254 lb)
Safety characteristics	Toxicity: nonhazardous to human health in anticipated use Flammability: self-extinguishing per UL94

Environmental recommendations

Operating conditions	10°C – 45°C (50°F – 113°F); 10% – 80% RH; 26°C (79°F) wet bulb maximum
Short-term storage conditions	16°C – 35°C (61°F – 95°F); 20% – 80% RH; 26°C (79°F) wet bulb maximum
Long-term storage conditions	16°C – 25°C (61°F – 77°F); 20% – 50% RH; 26°C (79°F) wet bulb maximum
Shipping conditions	-23°C – 49°C (-9°F – 120°F); 20% – 80% RH; 26°C (79°F) wet bulb max
Cartridge disposal	Classified as nonhazardous waste per EPA regulation 40CFR261; Can be disposed of as normal office trash

Machine type, Model (Part numbers)

LTO Ultrium 6 Data Cartridge	3589-650 (p/n 00V7590)
LTO Ultrium 6 WORM Cartridge	3589-670 (p/n 00V7591)
LTO Ultrium Universal Cleaning Cartridge	3589-004 (p/n 35L2086)
Limited lifetime warranty	Free from defects in manufacturing and materials defects for the useful life of the product

Why IBM?

LTO is an open tape architecture developed by a consortium of world-class storage producers. Compatible LTO tape drives and media are available from multiple vendors. Purchasing LTO Ultrium 6 data cartridges from IBM provides peace of mind in sourcing media from a trusted, time-proven tape technology leader.

For more information

To locate your nearest source for ordering, support, warranty or product-related questions regarding the IBM LTO Ultrium 6 Data Cartridge, please contact your IBM representative or IBM Business Partner or visit: **ibm.com**/systems/storage/media where you can obtain custom labeling from the referenced suppliers, as well as a list of country-specific phone numbers. You may also contact 1-888-IBM-MEDIA (1-888-426-6334).

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