



Highlights

- Achieve increased capacity
 - Ensure optimal data security
 - Support IBM® Spectrum Archive™
 - Meet stringent Linear Tape-Open (LTO) Ultrium Generation 8 specifications
 - Choose between rewritable and write-once, read-many (WORM) models
 - Use custom, blank and RFID-embedded cartridge labels
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IBM LTO Ultrium 8 data cartridge

High capacity and performance with exceptional reliability

Overview

With volumes of data growing exponentially—and with no end in sight—the IBM LTO Ultrium 8 data cartridge is designed to help organizations protect and preserve more data for longer periods of time. This latest generation of IBM LTO tape solutions offers more than double the storage capacity of previous generations for long-term data preservation that provides security as it sustains rapid, reliable access to data and helps ensure business resilience.

Increased capacity

Rapid data growth compounds the need for increased storage capacity. The eighth generation of LTO Ultrium tape media delivers 12 TB native capacity and up to 30 TB of compressed capacity for significantly 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, enabling an outstanding total cost of ownership (TCO).



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 on-site data storage. IBM LTO Ultrium 8 data cartridges are compatible with LTO Ultrium 8 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.

IBM Spectrum Archive support

LTO Ultrium 8 supports tape partitioning and IBM Spectrum Archive, which features IBM Linear Tape File System™ technology, making tape storage an even more compelling solution for the long-term preservation of data. With IBM Spectrum Archive, data files are indexed to facilitate search

and retrieval using disk-like directory tree structures and drag-and-drop techniques to improve the usability of tape solutions. IBM Spectrum Archive 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 |
|---|---|
| 12 TB native cartridge capacity Up to 30 TB capacity with 2.5:1 data compression | <ul style="list-style-type: none"> • Reduces the number of cartridges and the amount of equipment, space and labor associated with tape-based data storage • Drives storage efficiencies and helps contain infrastructure costs |
| Tape cartridge portability | <ul style="list-style-type: none"> • Facilitates remote, offline data storage for superior protection from natural or man-made threats • Reduces risk of data loss or corruption |
| IBM Spectrum Archive support | <ul style="list-style-type: none"> • 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 8 standard | <ul style="list-style-type: none"> • Ensures compatibility with LTO Ultrium 8 vendors' tape drive and automation products • Reduces data storage investment risk by using open standards-based tape technology |

IBM LTO Ultrium 8 data cartridge at a glance

General characteristics

| | |
|------------------|--|
| Media type | Linear serpentine recording half-inch cartridge |
| Data capacity | 12 TB native Up to 30 TB with 2.5:1 data compression |
| Cartridge models | LTO Ultrium 8 12 TB rewritable data cartridge LTO Ultrium 8 12 TB non-erasable, non-rewritable WORM cartridge |

Tape characteristics

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|----------------------|-------------------------|
| Total tape thickness | 5.6 μ (0.00022 in.) |
| Tape length | 960 m (3,149.61 ft) |

Cartridge characteristics

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|----------------------------|--|
| Cartridge size (L x W x D) | 102.0 mm x 105.4 mm x 21.55 mm (4.0 in. x 4.1 in. x 0.8 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

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|-------------------------------|--|
| 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); 5% - 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

| | |
|--|---|
| LTO Ultrium 8 data cartridge | 3589-652 (p/n 01PL041), 3589-552 (p/n 01PL041L) |
| LTO Ultrium 8 WORM cartridge | 3589-672 (p/n 01PL042), 3589-572 (p/n 01PL042L) |
| LTO Ultrium universal cleaning cartridge | 3589-004 (p/n 35L2086) |
| Limited lifetime warranty | Free from defects in manufacturing and material defects for the useful life of the product, or until end of support of the product. |

Why IBM?

LTO architecture is developed by a consortium of world-class storage producers. Compatible LTO tape drives and media are available from multiple vendors. Purchasing LTO Ultrium data cartridges from IBM provides peace of mind with IBM experience and continued roadmaps. In fact, IBM media and IBM drives are designed together and built to rigorous IBM specifications. Only IBM tape media is tested on all IBM drive and library configurations, increasing the reliability and durability of IBM tape products.

For more information

To learn more about the IBM LTO Ultrium 8 data cartridge, please contact your IBM representative, authorized IBM media distributor or IBM Business Partner, or visit: ibm.com/us-en/marketplace/lto-8

Additionally, IBM Global Financing provides numerous payment options to help you acquire the technology you need to grow your business. We provide full lifecycle management of IT products and services, from acquisition to disposition. For more information, visit: ibm.com/financing



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Produced in the United States of America
December 2017

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