

# IBM LTO Ultrium 8 data cartridge

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## 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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## 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.



**IBM LTO Ultrium 8 Specs. Table**

<b>IBM LTO Ultrium 8 data cartridge at a glance</b>	
General characteristics	
Media type	Linear serpentine recording half-inch cartridge
Data capacity	<ul style="list-style-type: none"> <li>• 12 TB native</li> <li>• 30 TB with 2.5:1 data compression</li> </ul>
Cartridge models	<ul style="list-style-type: none"> <li>• LTO Ultrium 8 12 TB rewritable data cartridge</li> <li>• LTO Ultrium 8 12 TB non-erasable, non-rewritable WORM cartridge</li> </ul>
Tape characteristics	
Total tape thickness	5.6 μ (0.00022 in.)
Tape length	960 m (3,149.61 ft)
Cartridge characteristics	
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	<ul style="list-style-type: none"> <li>• Toxicity: nonhazardous to human health in anticipated use</li> <li>• Flammability: self-extinguishing per UL94</li> </ul>
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); 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](http://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](http://ibm.com/financing)



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