

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



## LTO Ultrium 100 GB Data Cartridge



### Highlights

- ***Provides the capacity, performance and reliability for midrange and network tape storage environments***
- ***Contains half-inch metal particle tape that features a native data capacity of 100 GB and a compressed data capacity of 200 GB***
- ***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) design specifications***

### High capacity

By combining high storage capacity (100 GB native, 200 GB with 2:1 compression), performance, and reliability, IBM LTO Ultrium Data Cartridges continue the IBM commitment to enhancing tape technology. IBM LTO Ultrium Data Cartridges are part of a long line of IBM data cartridges that help provide superior media 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 LTO Ultrium Data Cartridges, along with IBM Ultrium drives, support the Linear Tape-Open Cartridge Memory (LTO-CM) chip, which enables the IBM Ultrium 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 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 LTO Ultrium data cartridge, with a compressed capacity of up to 200 GB, will be portable to other IBM Ultrium offerings. As your storage needs grow, your data cartridge can continue providing value to help maximize your investment.

## IBM LTO Ultrium 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 Data Cartridge	200 GB
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### 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	08L9120
LTO Ultrium Cleaning Cartridge	08L9124 (useful life of this cartridge is 50 cleans)

### Warranty

Limited lifetime warranty	5 years (manufacturing defects only)
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## Sales and support

To locate your nearest source for ordering, support, warranty, or product-related questions regarding the IBM LTO Ultrium Data Cartridge, visit [www.ibm.com/storage/media](http://www.ibm.com/storage/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/storage/lto](http://www.ibm.com/storage/lto)



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