

# StorageTek LTO Ultrium Data Cartridges



The high capacity and durability of Oracle's StorageTek Linear Tape Open (LTO) Ultrium data cartridges help you economically meet ever-increasing data storage requirements. With native capacity of up to 18.0 TB, StorageTek LTO Ultrium data cartridges are ideal for use in your archiving and backup applications. StorageTek LTO Ultrium data cartridges have high data integrity and longevity, so data is securely retained over its archived life. Backup and restore activities are accelerated, because more data is processed in less time with fewer tape mounts and dismounts.

## KEY FEATURES

- **Increased capacity.** StorageTek LTO Ultrium data cartridges provide higher capacity, which means fewer cartridges to buy and maintain, fewer tape mounts, and improved overall automation efficiency.
- **Data security.** StorageTek LTO Ultrium data cartridges are compatible with StorageTek LTO tape drives, which offer device-level data encryption to ensure data privacy and reduce the risk of data loss.

## Advanced Technology

StorageTek LTO Ultrium data cartridges feature a wide range of innovative technology advancements, including

- Highly reliable metal particle (Ultrium 5, Ultrium 6) and barium ferrite (Ultrium 7, Ultrium8, Ultrium9) media, with improved long-term magnetic stability for archival applications
- Non-contact 16 KB cartridge memory, which enables storage of historical usage records, indexing, and high-speed data searches by the drive
- Hardware-based AES 256-bit encryption capability of StorageTek LTO tape drives offers a high level of security during data storage and when transporting sensitive information

## Engage the Storage Experts

Oracle service professionals help you address storage challenges by delivering integrated services and solutions that optimize and manage storage performance over the life of your data. Oracle's recognized, world-class service and customer care give you confidence that your technology investment is protected and that your business will be responsive to change. Oracle's storage service professionals can help you gain and sustain measurable results with the reliability and flexibility that you require. In addition, you can make your storage solution decisions even stronger with one of the largest selections of high-performance tape media in the industry.

## STORAGETEK LTO ULTRIUM DATA CARTRIDGE SPECIFICATIONS

| Basic Specifications            | StorageTek LT09 Data Cartridge | StorageTek LT08 Data Cartridge | StorageTek M8-8 Data Cartridge | StorageTek Ultrium 7 Data Cartridge | StorageTek Ultrium 6 Data Cartridge | StorageTek Ultrium 5 Data Cartridge | StorageTek Ultrium Universal Cleaning Cartridge |
|---------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|
| Capacity, native (uncompressed) | 18 TB                          | 12 TB                          | 9 TB                           | 6.0 TB                              | 2.5 TB                              | 1.5 TB                              | N/A   |
| Tape length                     | 1035 m                         | 960 m                          | 960 m                          | 960 m                               | 846 m                               | 846 m                               | 319 m   |
| Number of tracks                | 8960                           | 6656                           | 5376                           | 3584                                | 2176                                | 1280                                | N/A   |
| Tape width                      | 12.65 mm                       | 12.65 mm                       | 12.65 mm                       | 12.65 mm                            | 12.65 mm                            | 12.65 mm                            | 12.65 mm  |
| Tape thickness                  | 5.2 µm                         | 5.6 µm                         | 5.6 µm                         | 5.6 µm                              | 6.4 µm                              | 6.4 µm                              | 8.9 µm  |
| Expected Archival Tape Life     | >30 years                      | >30 years                      | >30 years                      | >30 years                           | >30 years                           | >30 years                           | N/A   |
| Cartridge color                 | Green                          | Burgundy                       | Purple                         | Purple                              | Black                               | Red                                 | Black   |

## Environmental

|                              | StorageTek LT09 Drive   |                    | StorageTek LT08, M8-8, Ultrium 7, Ultrium 6, Ultrium 5 Drives                                      |
|------------------------------|---|--------------------|--|
| Operating Mode (recommended) | +59°F to +77°F (+15°C to +25°C)<br>20% – 50% RH (non-condensed)<br>+72°F (+22°C) dew point      | Operating Mode     | +50°F to +113°F (+10°C to +45°C)<br>10% – 80% RH (non-condensed)<br>+79°F (+26°C) wet bulb maximum |
| Operating Mode (allowable)   | +59°F to +95°F (+15°C to +25°C)<br>20% – 50% RH (non-condensed)<br>+72°F (+22°C) dew point      | Short Term Storage | +61°F to +90°F (+16°C to +32°C)<br>20% – 80% RH (non-condensed)<br>+79°F (+26°C) wet bulb maximum  |
| Shipping                     | -9.4°F to +120.2°F (-23°C to +49°C)<br>5% – 80% RH (non-condensed)<br>+18.8°F (+26°C) dew point | Archive Storage    | +61°F to +90°F (+16°C to +32°C)<br>20% – 80% RH (non-condensed)<br>+79°F (+26°C) wet bulb maximum  |
|                              |   | Shipping           | -9.4°F to +120.2°F (-23°C to +49°C)  |

## Compatibility Matrix

|                     | LT09 Drive         | LT08 Drive         | Ultrium 7 Drive   | Ultrium 6 Drive   | Ultrium 5 Drive   | Ultrium 4 Drive   |
|---------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| LTO9 Cartridge      | Read/write 18.0 TB | Not compatible     | Not compatible    | Not compatible    | Not compatible    | Not compatible    |
| LTO8 Cartridge      | Read/write 12.0 TB | Read/write 12.0 TB | Not compatible    | Not compatible    | Not compatible    | Not compatible    |
| M-8 Cartridge       | Not compatible     | Read/write 9.0 TB  | Not compatible    | Not compatible    | Not compatible    | Not compatible    |
| Ultrium 7 Cartridge | Not compatible     | Read/write 6.0 TB  | Read/write 6.0 TB | Not compatible    | Not compatible    | Not compatible    |
| Ultrium 6 Cartridge | Not compatible     | Not compatible     | Read/write 2.5 TB | Read/write 2.5 TB | Not compatible    | Not compatible    |
| Ultrium 5 Cartridge | Not compatible     | Not compatible     | Read-only         | Read/write 1.5 TB | Read/write 1.5 TB | Not compatible    |
| Ultrium 4 Cartridge | Not compatible     | Not compatible     | Not compatible    | Read-only         | Read/write 800 GB | Read/write 800 GB |



CONTACT US

For more information about StorageTek LTO Ultrium Tape Cartridges, visit [oracle.com/goto/tape](http://oracle.com/goto/tape) or call +1.800.ORACLE1 to speak to an Oracle representative.

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