

HPE Storage LTO Ultrium Cartridges

HPE LTO-8 Ultrium 30TB RW Data Cartridge (Q2078A)



What's new

- Massive increase in capacity—400% over the native capacity of LTO-7 (30 TB for LTO-10 versus 6 TB for LTO-7)
- Increase in native performance—possible to store 1.44 TB/hr using LTO-10 (full-height only)
- Built-in AES 256-bit encryption (IEEE1619.1) (LTO-5 through LTO-10)—granted FIPS140-2 Level 1 certification.

Overview

HPE Storage LTO Ultrium Cartridges provide up to 75 TB of ultra-low-cost storage to protect your data against the threat of cyberattack and meet the need for maximum reliability when restoring data. They enable businesses to comply with the recommendations of law enforcement agencies around the world to maintain offline copies of their data. Built upon a 25-year legacy of ten generations, with native transfer speeds of up to 400 MB/s for LTO-10, there is a platform for every budget. Secure AES-256 encryption (per FIPS 197) provides even higher levels of data security and compliance with the most stringent industry regulations to prevent unauthorized data access. Linear Tape File System (LTFS) makes using tape as easy, flexible, portable and intuitive as using other removable and shareable media, such as a USB drive. Also, because LTO cartridges at rest require minimal additional power and cooling, they offer a greener, more sustainable long-term archival solution for your data.

Features

Reliable Offline Medium that Creates an Air Gap to Keep Data Out of the Reach of Cybercriminals

Government agencies around the world recommend keeping copies of data offline. Using LTO technology from HPE storage lets you place data behind an airgap. It can help protect data from criminals using connected networks to try and encrypt both your primary and backup data.

Built-in AES 256-bit encryption (LTO-5 to LTO-10) allows you to provide additional security for data stored on tape. With LTO encryption (strengthened by the option to use WORM cartridges), even if those tapes fall into the wrong hands, the data they contain is protected from unauthorized access.

HPE LTO Ultrium cartridge memory chip delivers faster access time and enhanced media monitoring.

First time restore ensured with fewer media failures and disrupted backups, regardless of duty cycle or environmental conditions.

Lowest Total Cost of Ownership for Long-term Archiving

According to a white paper from Solutions North, "Data Economics: LTO-9 Optimizing Data Value" (2023), LTO technology has a measurable Return on Investment of up to 1856% when compared to cloud storage and 501% compared to HDD.

Standardizing on HPE Storage LTO Ultrium Cartridges delivers the capacity to meet shrinking backup windows, industry-standard, AES 256-bit encryption (IEEE1619.1), and interchangeable read-write (RW) or WORM media without extra space or IT resource overhead.

Open standard technology helps ensure compatibility across product generations and gives you more choice. HPE Storage LTO Ultrium Cartridges are available as custom labeled or non-custom labeled.

HPE brand qualification test procedures (load/unload, shoeshine, drop testing and environmental stress testing). This helps ensure greater reliability for restoring your data.

HPE offers a limited lifetime warranty for HPE Storage LTO Ultrium Cartridges, including up to 30 years of archival life, if stored at the recommended storage conditions. This helps businesses meet the ever-increasing demands of regulation for data retention and archiving.

Highest Capacity and Performance of any Comparable Tape Technology

HPE LTO-10 Ultrium data cartridges can write or read data at a blistering native 1.44 TB/hour, storing, encrypting, and protecting up to 75 TB* on a single cartridge. This makes them ideal for large-scale, 24x7, mission-critical IT environments (*capacity assumes 2.5:1 compression).

A 69% increase in the number of tracks has permitted a capacity increase from 45 TB for LTO-9 to 75 TB for LTO-10. From 8,960 tracks for LTO-8 30 TB cartridges to 15,104 tracks for LTO-10 75 TB cartridges (assuming 2.5:1 compression).

Ultra-reliable Storage Medium

Tape is more reliable than enterprise SATA disk, with an uncorrectable bit error rate (UBER) of 1×10 to the power of 20 for LTO-9 versus 1×10 to the power of 15 for SATA HDDs. This difference of five orders of magnitude means tape is 100,000 times more reliable than enterprise SATA HDD.

The estimated amount of data written before the first error occurs is 125 TB for HDD and 12,500,000 TB for LTO-9.

HPE Storage Tape media brand qualification test procedures (load/unload, shoeshine, drop testing and environmental stress testing) surpass what is required for the industry standard LTO Ultrium media logo.

Superior smart grabber mechanism and mechanical interlock prevent the leader pin from being pulled inside the tape housing. Sensors detect proper connection



and prevent leader loss that would ruin the tape. Simplified tape path to reduce wear, tear, and build-up of debris—crucial in automation.

User write-on labels are no longer included with HPE Storage LTO Ultrium Cartridges.

Technical specifications

HPE LTO-8 Ultrium 30TB RW Data Cartridge

Product Number	Q2078A
Recording technology	LTO-8 Ultrium
Capacity	30 TB Compressed 2.5:1
Media format	Re-writable
Quantity per package	1
Read speed, media	700 MB/sec
Bit density	525 kbits/inch
Archival life	30 years
Product color	Green
Tape length	960 m
Tape width	12.65 mm
Tape thickness	5.6 um
Base material	Barium Ferrite
Data tracks	6,656
Magnetic coercivity	2,300 Oe
Product dimensions (metric)	11.3 x 11.1 x 2.1 cm
Weight	0.28 kg
Warranty	Limited Lifetime Warranty.



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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- **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Image may differ from the actual product.
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