Hewlett Packard Enterprise

HPE LTO-7 ULTRIUM WORM DATA CARTRIDGE (C7977W)

Tape Media



WHAT'S NEW

- Massive increase in capacity – 620% over the native capacity of LTO-6 (18 TB LTO-9 versus 2.5 TB LTO-6)
- Increase in native performance – possible to store 1.44 TB/hr using LTO-9 (full-height only)

OVERVIEW

HPE LTO Ultrium cartridges provide reliable and low cost protection to guard your data against the threat of cyber attacks and ransomware, as well as meeting your demands for 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 legacy of nine generations, and with native transfer speeds of up to 1.44

- Built-in AES 256-bit encryption (IEEE1619.1) (LTO-5, LTO-6, LTO-7, LTO-8, and LTO-9) – granted FIPS140-2 Level 1 certification.

TB/h for LTO-9, there is a platform for every budget. Secure AES-256 encryption provides even higher levels of data security and compliance with the most stringent industry regulations to prevent unauthorized data access. HPE StoreOpen and Linear Tape File System 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

Agencies such as the US FBI recommend keeping data offline. This is because tapes that are stored offline are disconnected from the network and are out of reach of sophisticated criminals who use digital networks to strike at companies to encrypt both their primary data and their backups.

Built-in AES 256-bit encryption (LTO-5 to LTO-9) allows you to provide additional security for data stored on tape. With LTO encryption (strengthened by the option to use WORM cartridges), even if tapes were to fall into the wrong hands, your data would be 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 ESG, 'The Economic Benefits of HPE StoreEver as Active Archival Storage', published in August 2020, LTO tape technology is over 80% less expensive across a 10-year period, than either all-disk or all-cloud solutions for a 1 PB archive growing at 10% per annum.

Standardizing on HPE LTO Ultrium 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 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 ensures maximum reliability for restoring your data.

HPE offers a limited lifetime warranty for HPE LTO Ultrium cartridges, including up to 30 years archival life, if stored at the recommended storage conditions.This ensures businesses can meet the ever-increasing demands of regulation for data

retention and archiving.

Highest Capacity and Performance of any Comparable Tape Technology

HPE LTO-9 Ultrium data cartridges can write or read data at a blistering native 1.44 TB/hour, storing, encrypting, and protecting up to 45 TB* on a single cartridge, making it ideal for large-scale, 24x7, mission-critical IT environments (*capacity assumes 2.5:1 compression).

A 35% increase in the number of tracks and a 3% increase in bit density has permitted a capacity increase from 30 TB for LTO-8 to 45 TB for LTO-9. From 2,176 tracks for LTO-6 to 8,960 tracks for 9th generation HPE LTO-9 Ultrium 45 TB cartridges (assuming 2.5:1 compression) – an improvement of 311%

Ultra-reliable Storage Medium

Tape is more reliable than enterprise SATA disk, with a bit error rate (BER) of 1x10 to the power of 19 for LTO-8 versus 1x10 to the power of 15 for enterprise SATA HDD's. That's a difference in reliability of four orders of magnitude–e.g. tape is 10,000 times more reliable than enterprise SATA HDD

Estimated data loss over 10 years for 1 Exabyte archive is 1.1 Petabytes for HDD compared to only 7.4 Terabytes for tape.

HPE brand qualification test procedures (load/unload, shoeshine, drop testing and environmental stress testing) go far beyond what is required for the HPE LTO Ultrium. This ensure utmost reliability for restoring your data.

Superior 'smart grabber' mechanism and mechanical interlock to 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 A and W SKU's.

Technical specifications — HPE LTO-7 Ultrium WORM Data Cartridge

Product Number	C7977W
Recording technology	LTO-7 Ultrium
Capacity	15 TB Compressed 2.5:1 Supported
Media format	Write-once
Quantity per Package	1
Read speed, media	700 MB/sec
Bit density	485 kbits/inch
Archival life	30 years
Product color	Slate Blue
Tape length	960 m
Tape width	12.65 mm
Tape thickness	5.6 um
Base material	Barium Ferrite
Data tracks	3584
Magnetic coercivity	2,200-2,300 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

HPE POINTNEXT SERVICES

HPE Pointnext Services brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

HPE Integration and Performance Services help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- GreenLake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support 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 is HPE's market-leading IT 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. HPE GreenLake delivers public cloud services and infrastructure for workloads 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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