



**Hewlett Packard
Enterprise**

HPE LTO4 ULTRIUM 1.6TB READ/WRITE DATA CARTRIDGE (C7974A)

Tape Media



WHAT'S NEW

- Massive increase in capacity: 700% improvement versus LTO-5 and 380% capacity versus LTO-6 (assume native data capacity)
- Significant increase in performance - possible to store 2.7 TB/hr using LTO-8.
- Built-in AES 256-bit encryption (IEEE1619.1) (LTO-4, LTO-5, LTO-6, LTO-7, LTO-8) - granted FIPS140-2 Level

OVERVIEW

Exhaustively tested, HPE LTO Ultrium cartridges meet all your demands for maximum reliability when restoring data, offering high storage density, ease of management and scalable storage and backup performance. Covering eight generations of capacity - LTO-1 (200 GB), LTO-2 (400 GB), LTO-3 (800 GB), LTO-4 (1.6 TB), LTO-5 (3 TB), LTO-6 (6.25 TB), LTO-7 (15 TB) and LTO-8 (30 TB) – and with transfer speeds of up to 2.7 TB/hr for LTO-8, there is a platform for every need and budget. From LTO-3 onwards, LTO Ultrium WORM cartridges enable the creation of compliant, permanent and tamper-proof

1 certification.

archives. From LTO-4 onwards, secure AES-256 encryption provides even higher levels of data security and compliance with the most stringent industry regulations to prevent unauthorized data access. From LTO-5 onwards, HPE LTO Ultrium 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.

FEATURES

Highest Capacity and Performance of any Comparable Tape Technology

HPE LTO-8 Ultrium can write or read data at a blistering 2.7 TB/hour, storing, encrypting and protecting up to 30 TB on a single cartridge, making it ideal for large-scale, 24 x 7, mission-critical IT environments (assumes 2.5:1 compression).

An 85% increase in the number of tracks and a 8% increase in bit density has permitted an increase in capacity from 15 TB for LTO-7 to 30 TB to LTO-8: from 3,584 tracks for LTO-6 to 6,656 tracks for 8th generation HPE LTO-8 Ultrium 30 TB cartridges (assuming 2.5:1 compression).

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.

Ultra-reliable

Tape is more reliable than Enterprise SATA disk. With a BER of 1×10^{-19} for LTO-8 versus 1×10^{-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.

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 & build-up of debris (important in automation)

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

HPE warrants LTO Ultrium cartridges for up to 30 years archival life. This ensures businesses can meet the ever-increasing demands of regulation for data retention and archiving.

Secure

Write-Once-Read-Many (WORM) version provides tamper-proof, compliant data storage.

Data encryption for enhanced data security on HPE LTO-4, LTO-5, LTO-6, LTO-7 and LTO-8 Ultrium. Compliance with FIPS 140-2 level 1 security standards.



Value for money

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

Open standard technology ensures compatibility across product generations and gives you more choice. Cartridges are available as Custom Labeled, Non-Custom Labeled and non-labeled versions.

Technical specifications**HPE LTO4 Ultrium 1.6TB Read/Write Data Cartridge**

Product Number (SKU)	C7974A
Recording technology	LTO-4 Ultrium
Capacity	1.6 TB Compressed 2:1 Supported
Media format	Re-writable
Media labeling	Write-on Labels in box
Quantity per Package	1
Read speed, media	240 MB/sec
Bit density	343 kbits/inch
Archival life	30 years
Product color	Green
Tape length	820 m
Tape width	12.65 mm
Tape thickness	6.6 um
Base material	Metal Particle
Data tracks	896
Magnetic coercivity	2,200-2,300 Oe
Operating humidity range	10 to 80% (Operating)
Product Dimensions (metric)	11.1 x 11.3 x 2.79 cm
Weight	0.28 kg



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Advisory and Professional Services help you accelerate your digital transformation. [Operational Services](#) help you remove complexity and respond rapidly to business demands.

Operational Services from HPE Pointnext Services

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- **[HPE Proactive Care](#)** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). [Read more](#)
- **[HPE Foundation Care](#)** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. [Read more](#).

Other related services

[Defective Media Retention](#) is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

[HPE Service Credits](#) offers a menu of technical services, access additional resources, and specialist skills.

[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.



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

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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.

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