Hewlett Packard Enterprise
Enterprise

Hewlett Packard Enterprise LTO Ultrium Media

Hewlett Packard Enterprise Ultrium tape technology has been designed to deliver exceptional reliability and performance at the lowest cost per GB. The Ultrium format builds on the best of existing technologies; open standards increase innovation and widen customer choice in terms of performance, capacity and form factor. Backed by Hewlett Packard Enterprise's exhaustive media qualification process, HPE Ultrium data cartridges support all HPE and non-HPE Ultrium tape devices.
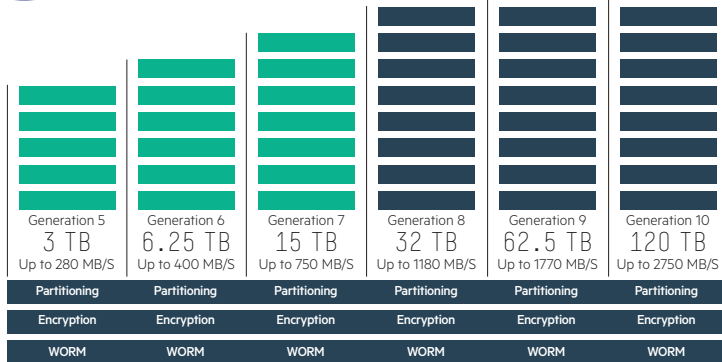
Key features and benefits

• **Up to 15 TB compressed capacity.**

• **Supports transfer speeds** up to 300 MB/sec or 1.1 TB hour native with LTO-7.

• **Both Advanced Metal Particle and Barium Ferrite** options available for LTO-6.

• **For use in all HPE** and non-HPE LTO Ultrium products.

• **Unique colored cartridge** to assist with identification in mixed media environments.

• **Very low media cost** per TB – maximize storage density within the data center.

• **LTO cartridge memory in media** to improve access time and provide enhanced media monitoring.

• **Durable cartridge** designed to minimize wear and debris (important in automation).

• **Tested to extremes** to a level of specification unique to Hewlett Packard Enterprise. Many of the test procedures required for HPE brand qualification (eg. load/unload, shoeshine, drop testing and environmental stress testing) are not required for the LTO Ultrium logo.

• **Hardware-based encryption** for compliance with FIPS 140-2 level 1 security standards.

• **Hewlett Packard Enterprise offers both** Custom Labeled and Non-Custom Labeled data cartridges in both standard bar code and Radio Frequency Identification (RFID) versions.

  – **Custom Labeled offerings** allow automation customers the ability to customize their label to their specific needs. This includes the ability to define the bar code label type and to specify an exact label sequence.

  – **Non-Custom Labelled** media allows automation customers the ability to receive labeled media without having to wait for a custom labeled solution. Bar code sequences are predetermined by HPE and are guaranteed to be unique.

Learn more at
hpe.com/storage/storagemedia

LTO Ultrium roadmap

Generation 5	Generation 6	Generation 7	Generation 8	Generation 9	Generation 10
3 TB	6.25 TB	15 TB	32 TB	62.5 TB	120 TB
Up to 280 MB/S	Up to 400 MB/S	Up to 750 MB/S	Up to 1180 MB/S	Up to 1770 MB/S	Up to 2750 MB/S
Partitioning	Partitioning	Partitioning	Partitioning	Partitioning	Partitioning
Encryption	Encryption	Encryption	Encryption	Encryption	Encryption
WORM	WORM	WORM	WORM	WORM	WORM

Drive/Media compatibility

	LTO-2 DRIVE	LTO-3 DRIVE	LTO-4 DRIVE	LTO-5 DRIVE	LTO-6 DRIVE	LTO-7 DRIVE
LTO-2 Media	Read/Write	Read/Write	Read Only	Not Compatible	Not Compatible	Not Compatible
LTO-3 Media	Not Compatible	Read/Write	Read/Write	Read Only	Not Compatible	Not Compatible
LTO-4 Media	Not Compatible	Not Compatible	Read/Write	Read/Write	Read Only	Not Compatible
LTO-5 Media	Not Compatible	Not Compatible	Not Compatible	Read/Write	Read/Write	Read Only
LTO-6 Media	Not Compatible	Not Compatible	Not Compatible	Not Compatible	Read/Write	Read/Write
LTO-7 Media	Not Compatible	Not Compatible	Not Compatible	Not Compatible	Not Compatible	Read/Write

For full hardware and media compatibility go to
hptapecompat.com

Specifications

PRODUCT NO.	C7972A	C7973A	C7974A	C7975A	C7976A	C7976B	C7977A
Reseller Product Number							
Model	LTO-2	LTO-3 RW	LTO-4 RW	LTO-5 RW	LTO-6 RW	LTO-6 RW	LTO-7 RW
FORMAT (Transfer speeds and capacities assume 2:1 compression for LTO-1 to LTO-5 and 2.5:1 for LTO-6 and LTO-7. Actual performance is data dependent.)							
Storage Capacity	200 GB/400 GB	400 GB/800 GB	800 GB/1.6 TB	1.5 TB/3 TB	2.5 TB/6.25 TB	2.5 TB/6.25 TB	6 TB/15 TB
Transfer Speed	60 MB/sec	160 MB/sec	240 MB/sec	280 MB/sec	400 MB/sec	400 MB/sec	700 MB/sec
Magnetic Material	Metal Particle	Metal Particle	Metal Particle	Metal Particle	Metal Particle	Barium Ferrite	Barium Ferrite
Number of Data Tracks	512	704	896	1,280	2,176	2,176	3,584
Recording Density	188 kbits/inch	245 kbits/inch	343 kbits/inch	343 kbits/inch	343 kbits/inch	343 kbits/inch	485 kbits/inch
PHYSICAL CHARACTERISTICS							
Tape Thickness (um)	8.9	8.0	6.6	6.4	6.4	6.4	5.6
Tape Width (mm)	12.65	12.65	12.65	12.65	12.65	12.65	12.65
Tape Length (m)	609	680	820	846	846	846	960
ENVIRONMENTAL PROPERTIES							
Operating Temperature	50 °F to 113 °F (10 °C to 45 °C)						
Day to Day Storage Temperature	60 °F to 90 °F (16 °C to 32 °C)						
Long Term Storage Temperature – Ambient	41 °F to 73 °F (5 °C to 23 °C)						
Maximum Wet Bulb Temperature	79 °F (26 °C)						
Non Condensing Relative Humidity	10 to 80% (Operating) 20 to 60% (Archival)						
Archival Life	30 years						
LOGISTICS							
UNIT (IN CASE)							
External Dimensions (cm)	Length 11.1 x Width 11.3 x Height 2.1						
Weight (g)	285.2	285.2	285.2	285.2	285.2	285.2	285.2
Quantity	1	1	1	1	1	1	1
UPC	8 08736-39584 7	8 29160-62177 7	8 827808-6982 0	8 8496292534 8	8 8711120386 1	8 8711185115 4	8 8989415772 0
SUB CARTON							
External Dimensions (cm)	Length 11.9 x Width 14.8 x Height 12.1						
Weight (g)	1511	1490	1490	1430	1430	1430	1355
Quantity	5x1 units = 5 cartridges						
ITF-14	1 08 08736-39584 4	1 08 29160-62177 4	1 08 82780-86982 7	1 0 88496292534 5	1 088711120386 8	1 088711185115 1	1 0889989415772 7
MASTER CARTON							
External Dimensions (cm)	Length 31.4 x Width 25.5 x Height 14.8						
Weight (kg)	6.57	6.48	6.48	6.2	6.2	6.2	5.7
Quantity	4 x 5 units = 20 cartridges						
ITF-14	2 08 08736-39584 1	2 08 29160-62177 1	2 08 82780-86982 4	2 0 88496292534 2	2 088711120386 5	2 088711185115 8	2 0889989415772 4

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