



# Hewlett Packard Enterprise LTO Ultrium Media



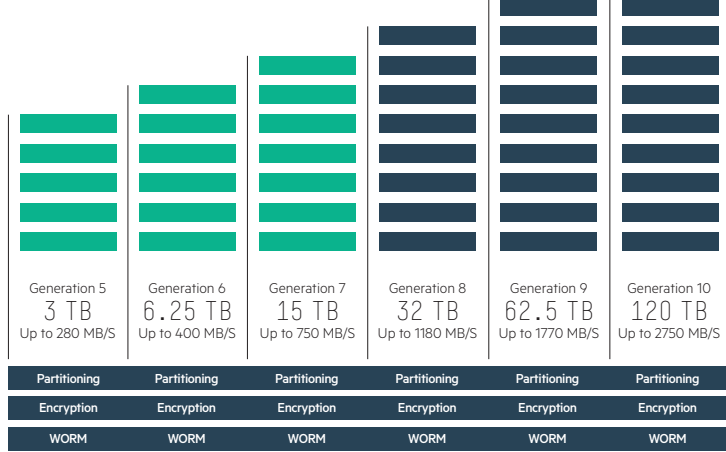
Hewlett Packard Enterprise Ultrium tape technology has been designed to deliver exceptional reliability and performance at the lowest cost per GB. The Ultrium format builds on the best of existing technologies; open standards increase innovation and widen customer choice in terms of performance, capacity 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 coloured cartridge** to assist with identification in mixed media environments.
- **Very low media cost** per TB – maximise storage density within the data centre.
- **LTO cartridge memory in media** to improve access time and provide enhanced media monitoring.
- **Durable cartridge** designed to minimise 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 Labelled and Non-Custom Labelled data cartridges in both standard bar code and Radio Frequency Identification (RFID) versions.
  - **Custom Labelled offerings** allow automation customers the ability to customise 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 labelled media without having to wait for a custom labelled solution. Bar code sequences are predetermined by HPE and are guaranteed to be unique.



# ULTRIUM LTO Ultrium roadmap



## Drive/Media compatibility

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

For full hardware and media compatibility go to [hptapecompat.com](http://hptapecompat.com)

## Specifications

PRODUCT NO.	C7972A	C7973A	C7974A	C7975A	C7976A	C7976B	C7977A
<b>Reseller Product Number</b>							
<b>Model</b>	LTO-2	LTO-3 RW	LTO-4 RW	LTO-5 RW	LTO-6 RW	LTO-6 RW	LTO-7 RW
<b>FORMAT</b> (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.)							
<b>Storage Capacity</b>	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
<b>Transfer Speed</b>	60 MB/sec	160 MB/sec	240 MB/sec	280 MB/sec	400 MB/sec	400 MB/sec	700 MB/sec
<b>Magnetic Material</b>	Metal Particle	Metal Particle	Metal Particle	Metal Particle	Metal Particle	Barium Ferrite	Barium Ferrite
<b>Number of Data Tracks</b>	512	704	896	1,280	2,176	2,176	3,584
<b>Recording Density</b>	188 kbits/inch	245 kbits/inch	343 kbits/inch	343 kbits/inch	343 kbits/inch	343 kbits/inch	485 kbits/inch
<b>PHYSICAL CHARACTERISTICS</b>							
<b>Tape Thickness (um)</b>	89	80	66	64	64	64	56
<b>Tape Width (mm)</b>	12.65	12.65	12.65	12.65	12.65	12.65	12.65
<b>Tape Length (m)</b>	609	680	820	846	846	846	960
<b>ENVIRONMENTAL PROPERTIES</b>							
<b>Operating Temperature</b>	50 °F to 113 °F (10 °C to 45 °C)						
<b>Day to Day Storage Temperature</b>	60 °F to 90 °F (16 °C to 32 °C)						
<b>Long Term Storage Temperature – Ambient</b>	41 °F to 73 °F (5 °C to 23 °C)						
<b>Maximum Wet Bulb Temperature</b>	79 °F (26 °C)						
<b>Non Condensing Relative Humidity</b>	10 to 80% (Operating) 20 to 60% (Archival)						
<b>Archival Life</b>	30 years						
<b>LOGISTICS</b>							
<b>UNIT (IN CASE)</b>							
<b>External Dimensions (cm)</b>	Length 111 x Width 113 x Height 21						
<b>Weight (g)</b>	285.2	285.2	285.2	285.2	285.2	285.2	285.2
<b>Quantity</b>	1	1	1	1	1	1	1
<b>UPC</b>	8 08736-39584 7	8 29160-62177 7	8 827808-6982 0	8 8496292534 8	8 871120386 1	8 8711185115 4	8 8989415772 0
<b>SUB CARTON</b>							
<b>External Dimensions (cm)</b>	Length 119 x Width 14.8 x Height 12.1						
<b>Weight (g)</b>	1511	1490	1490	1430	1430	1430	1355
<b>Quantity</b>	5x1 units = 5 cartridges						
<b>ITF-14</b>	1 08 08736-39584 4	1 08 29160-62177 4	1 08 82780-86982 7	1 0 88496292534 5	1 08871120386 8	1 088711185115 1	1 088989415772 7
<b>MASTER CARTON</b>							
<b>External Dimensions (cm)</b>	Length 314 x Width 25.5 x Height 14.8						
<b>Weight (kg)</b>	6.57	6.48	6.48	6.2	6.2	6.2	5.7
<b>Quantity</b>	4 x 5 units = 20 cartridges						
<b>ITF-14</b>	2 08 08736-39584 1	2 08 29160-62177 1	2 08 82780-86982 4	2 0 88496292534 2	2 08871120386 5	2 088711185115 8	2 088989415772 4



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