



HP LTO Ultrium 2 SCSI Tape Drive

High capacity, performance
and reliability



Fully read and write compatible with LTO Ultrium 1 tape drives, HP's LTO Ultrium 2 drive offers mid-range and enterprise customers a capacity of 200GB on a single cartridge and a 30MB/second transfer rate.

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Key features and benefits

- **Outstanding reliability:** Builds on the success of HP LTO Ultrium 1 with high reliability in a robust drive that includes a dependable leader capture design, active head cleaner, simple tape path, Data Rate Matching and soft load/unload mechanism designed for 100,000 load/unloads.
- **Unrivalled data integrity:** Real-time read-while-write data verification and powerful error correction codes mean that even if a full track is lost or up to 32mm of tape is unreadable, all data can be recovered.
- **Backup more data in less time:** High performance backup with 108GB/hour transfer rate and 200GB per cartridge capacity.
- **Optimal performance:** Unique features such as data rate matching and dual mode compression ensure optimal performance to minimize the backup window and improve drive life span.
- **Manageability:** LTO-CM (cartridge memory) offers greater manageability by storing tape ID, history and error rates.
- **Compatible across platforms:** Compatible with leading backup and management software and hardware platforms.
- **Investment protection:** Backward compatible to LTO Ultrium 1 media. Delivers compelling migration path that will double in capacity every generation.

Specifications

Capacity	200GB native, typically 400GB with hardware data compression
Recording format	
Logical recording format:	LTO Ultrium 2
Recording technology:	8 channel linear serpentine recording on half-inch tape media
Backwards compatibility:	Fully read and write compatible with LTO Ultrium 1 drives
Performance	
Data compression:	LTO-DC (enhanced version of ALDC)
Memory buffer:	64MB
Data rate matching:	Dynamically variable adaptive tape speed to match host data rate from 10-30MB/sec (native)
Interface:	LVD with Ultra 3 SCSI
Sustained transfer rate:	Up to 30MB/sec native (108GB/hr), Up to 60MB/sec compressed (216GB/hr)
Burst transfer rate:	160MB/sec
Data access speed:	Average of 52 seconds from beginning of media
Tape speed:	5.45 metres per second
Media	LTO Ultrium 2 400GB (compressed) data cartridge
Reliability	
MTBF:	250,000 hours at 100% duty cycle
Corrected error rate:	1 in 1x10 ¹⁷ bits
Loading mechanism:	Powered load with precision eject
Head life:	60,000 hours
Power requirements	
Standby w/o cartridge:	10W
Standby with cartridge:	15W
Operating average:	25W
Operating peak:	38W
Power supply/required (int):	5V DC, 3.6A; 12V DC, 1.6A
Temperature	
Operating temperature range:	10 to 40°C (41 to 104°F)
Storage temperature range:	-40 to 66°C (-40 to 151°F)
Humidity range:	20 to 80% RH
Non-operating humidity:	10 to 95% RH
Safety	UL, CSA, TUV, CE, NOM, FCC, VCCI, C-tick, RRL, BCIQ, BSMI, GOSH
Physical characteristics	
Form factor:	5.25-inch wide, full-height
Dimensions (h x w x d):	82.5 x 146 x 203mm (3.25 x 5.75 x 8")
Weight:	2.1Kg (4.6 lbs.) (Internal product)
Ordering information	
C7379:	HP LTO Ultrium 2 format SCSI tape drive
C7972A:	HP LTO Ultrium 400GB (compressed) data cartridge
C7978A:	HP LTO Ultrium universal cleaning cartridge



Native capacity/transfer rates quoted unless otherwise stated. All brand and product names are trademarks or registered trademarks of their respective companies. Technical information is subject to change without notice. Copyright © 2004 Hewlett-Packard Company. All rights reserved.