



HP LTO Ultrium 2 Tape Drive – Half-height

High reliability, capacity and performance
at a value line price



As the entry point for HP's LTO Ultrium tape drive family, the HP LTO Ultrium 2 Half-height tape drive offers superdrive reliability, capacity and performance in a compact form factor. An ideal direct-attach and network backup solution for entry-level and midrange servers or entry level automation where capacity and low cost of ownership are critical, the HP LTO Ultrium 2 half-height tape drive stores 200GB of data on a single tape at up to 86GB per hour.

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Key features and benefits

- **High Value:** High capacity combined with low media and drive cost delivers an exceptionally low cost of ownership.
- **Compact:** Half-height form factor saves space and fits in a wide variety of servers, workstations and autoloaders.
- **Dependable:** Incorporates high reliability in a robust drive with high standards of data integrity.
- **Backup more data in less time:** Fast half-height LTO Ultrium drive with 86GB/hour transfer rate and 200GB per cartridge capacity. Performance optimized by unique dynamic Data Rate Matching feature.
- **Well connected:** Compatible with leading operating systems, backup software and servers.
- **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	LTO Ultrium 2, LTO Ultrium 1 for 100GB data cartridge
Logical recording format:	8 channel linear serpentine recording on half-inch tape media
Recording technology:	
Performance	
Data compression:	LTO-DC dual mode compression (enhanced version of ALDC)
Memory buffer:	64MB
Data rate matching:	Dynamically variable adaptive tape speed to match host data rate from 8-24MB/sec (native)
Interface:	Ultra 160 (Wide Ultra 3) SCSI (LVDS) Serial Attached SCSI 3Gbps
Sustained transfer rate:	Up to 24MB/sec native (86GB/hr) Up to 48MB/sec compressed (172 GB/hr)
Burst transfer rate:	160MB/second (with Ultra 160 wide)
Data access speed:	64 seconds typical for 200GB tape from beginning of media
Tape speed:	5.0 metres per second
Media	LTO Ultrium 2 400GB (compressed) data cartridge
Reliability	
MTFB:	250,000 hours at 100% duty cycle
Corrected error rate:	1x10 ¹⁷ bits read
Loading mechanism:	Powered load with precision eject
Head life:	60,000 hours
Power requirements	
Idle:	13 Watts
Typical:	20 Watts
Maximum:	33 Watts
Power supply/required (int):	5V DC, 2.5A; 12V, 0.7A
Temperature	
Temperature range:	Operating: 50° F to 95° F (10° C to 40° C) at a minimum of 6CFM airflow Storage: -40° F to 151° F (-40° C to 66° C)
Non-condensing humidity range:	Operating: 20 to 80% RH (non-condensing) Storage: 10 to 95% RH (non-condensing)
Standards Compliance	CSA Certification to C22.2, No.60950 (cCSAus), TUV EN60950 (IEC 60950), CE Declaration of Conformity, FCC 47 CFR Parts 15, NOM, VCCI, C-TICK, RRL, BSMI, GOSH CB Certificate and Report (IEC 60950)
Physical characteristics	
Form factor:	5.25-inch wide, half-height
Dimensions (h x w x d):	1.6 x 5.7 x 8.1 inches (4.1 x 14.5 x 20.6 cm)
Weight:	3.2 lbs (1.45 KG)
Ordering information	
PD040A:	HP LTO Ultrium 2 half-height format SCSI tape drive
PD045A:	HP LTO Ultrium 2 half-height format SAS tape drive
C7972A:	HP LTO Ultrium 400 GB (compressed) data cartridge
C7978A:	HP LTO Ultrium universal cleaning cartridge



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