

PRIMERGY Entry-Level LTO Ultrium (LTO1HH) Tape Drive

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The PRIMERGY Entry-Level LTO Ultrium (LTO1HH) tape drive offers an entry into tried-and-tested LTO technology. The new PRIMERGY LTO1HH Ultrium is an efficient entry-level LTO tape drive, a technology that has gained in attractiveness in the past years. The LTO Ultrium format is now the clear market leader, ahead of DLT, AIT and VXA technologies. The PRIMERGY LTO1HH offers a very good price/performance ratio and thus is the ideal product for implementing new and existing backup solutions with this popular and reliable standard. It is optimally tuned to the requirements of small and medium-sized business environments.

- The LTO1HH Ultrium tape drive offers a capacity of 200 GB (compressed) and a transfer rate of 32 MB/sec.
- As a half-height system, it can be integrated optimally in server environments.
- Open drive technology (LTO) at low costs per gigabyte
- Enables growth thanks to read/write compatibility with the larger LTO Ultrium generations 2 and 3.

The tape drives with LTO (Linear Tape Open) technology have been designed for the small and mid-sized business arena. In addition, the open drive technology ensures continual technical improvements. Thanks to its half height and length of just 214 mm, the PRIMERGY LTO1HH Ultrium tape drive enables efficient use of space for internal storage solutions, even in small system enclosures and servers with just one free bay. Its transfer rate of 32 MB/sec also makes it one of the fastest drives with this capacity (200 GB compressed).

The LTO1HH has a low power consumption of just 18W in operation and only 9W in sleep mode, the lowest power consumption for LTO1 drives on the market. As a result, there are no negative heating effects and the unit can be installed in all servers without any trouble.

The patented "Smart Gripper" technology supports secure media loading. The drive comes with integrated media management for intelligent diagnosis of the status of the media. Automatic head cleaning ensures preventive maintenance and thus fewer downtimes.

Compatibility within the LTO product family is guaranteed. The LTO1 media can be read and written to by all LTO1 and LTO2 drives, and can be read by the LTO3 drives. That enables gradual growth from the entry-level product to larger capacities (up to 800 GB) and higher speeds (up to 80 MB/sec).

Ultrium tape cartridges

Just like the LTO tape drive technology itself, the LTO 100/200 GB tape cartridges offer backups with a high level of capacity, reliability and manageability.



Main features	Customer benefits
Compact half-height size and a length of just 214 mm, as well as high transfer rates of up to 32 MB/s.	Efficient use of space in internal storage solutions for small system enclosures and servers with just one free bay
Low power consumption: 18 watts in operation and 9 watts in sleep mode	Lowest power consumption of all LTO1 drives on the market
Attractive price	Ideal introduction to tried-and-tested LTO technology

Technical data

Capacity uncompressed	100 GB
Capacity compressed	200 GB
Buffer size	64 MB
Transfer rate	Uncompressed/compressed 16 / 32 MB/s
Recording format	Ultrium LTO1
System interface	Ultra160 SCSI
Data transfer rate (burst)	160 MB/s
Data cartridges	LTO Ultrium 1
File access time	76s
Backward compatible	Read/write compatible with LTO Ultrium 1
Forward compatible	LTO1 cartridge in LTO2 tape drive read/write compatible; in LTO3 read compatible
Data compression	LTO DC (enhanced version of ALDC), in-line hardware compression
Tape alert	Yes
Reliability	
MTBF (hours)	250,000
Hard read error rate	1×10^{-17}
Head service life	30,000 tape drive hours
Security features	Self test, error logs and media management diagnosis
Tape motion	
Tape speed	LTO 1
Read/write	172 ips
Wind / rewind	200 ips
Dimensions / weight	
Internal drive	
Height/width/depth	41.3 x 146 x 214 mm
Weight	1.4 kg
Power consumption	
Power input	
Standby	5V 2.1 A
in operation	12V 0.8 A
Power consumption	9 W standby 18 W typical in read/write
Temperature	
Operation	10° C to 40° C
Storage	-30° C to 60° C
Relative humidity (operation)	20% to 80% C
Relative humidity (storage)	5% to 90% C

Compliance with standards

Product safety	
Global	IEC 60950
Europe	EN 60950
USA / Canada	UL 60950 C-UL, C22.2 No. 60950
Electromagnetic compatibility	
Europe	EN 55022 Class B; EN 55024
Japan	VCCI class B
Australia / New Zealand	AS/NZS 3548 class B
USA / Canada	FCC Part 15 Class B / ICES-003 Class B
Declaration of conformity	
Europe (CE)	CE
North America	FCC
Approvals	
Product safety	
Global	CB
Europe	TÜV
Germany	TÜV
USA / Canada	ULc/us
There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons (e.g. for Canada and USA, East European countries, Norway), can be applied for on request.	