

## Quantum LTO-2 HH Tape Drive



### FEATURES AND BENEFITS

- Affordable tape backup solution for small and medium businesses
- Backup ready solutions include Backup Exec™ QuickStart backup software plus a data and cleaning cartridge for a total backup package
- Fastest LTO-2 HH – up to 187GB/hr\*
- Most reliable tape drive with features exclusive to Quantum – SmartVerify™, MediaShield™, Dynamic PowerDown™, FastSense™
- Flexible internal, tabletop and 1U rackmount configurations

### Most Reliable and Affordable LTO for Small and Medium Business

Quantum LTO-2 HH half-height tape solutions leverage LTO technology and Quantum-exclusive features to provide the most reliable and affordable tape data protection for small and medium businesses. The Quantum LTO-2 HH delivers price, capacity and reliability in a compact 5 1/4" half-height form factor providing a very efficient Total Cost of Ownership (TCO). Doubling the capacity of LTO-1 tape drives, the LTO-2 HH stores up to 400GB per cartridge\* and delivers sustained backup speeds of up to 187GB per hour\* the fastest LTO-2 HH available. Backward-compatible with LTO-1 media, and interchangeable with tape drives from all Ultrium-certified manufacturers, the LTO-2 HH is the most affordable entry-point to the LTO Ultrium roadmap.

The Quantum LTO-2 HH is the most reliable LTO-2 half-height tape drive on the market, delivering reliability features only available from Quantum. MediaShield™ provides advanced cooling and tape guides, extending media life by 100% over drives from all other manufacturers. Multiple Transfer Speeds inherent in the drive enable constant tape streaming and eliminate performance-degrading tape repositions by automatically matching the host's transfer speed to one of thirteen LTO-2 HH speeds. Dynamic PowerDown protects the drive and cartridge in the event of power loss. SmartVerify concurrently

verifies all data written to the tape, virtually eliminating the need for a traditional verify pass during backup operations, thus reducing the backup window. With an error-free, full duty cycle MTBF of 250,000 hours, the LTO-2 HH is a sound investment investment supported by a three-year limited warranty.

### "Backup Ready" Solutions - Go from box-to-backup in minutes!

Quantum "Backup Ready" certified solutions allow you to go from box-to-backup in minutes with the highly reliable Quantum LTO-2 HH tape drive, world-class Backup Exec QuickStart software and durable Quantum media. "Backup Ready" solutions are cost-effective, easy to install and fully supported by Quantum. Backup Exec QuickStart is a fully functional server backup and restore software for Microsoft Windows and NetWare. Quantum media cartridges are rigorously tested for reliability and compatibility with Quantum tape drives and deliver the comfort of knowing that everything will work from box-to-backup. Choose the Quantum LTO-2 HH tape drive that is right for your IT environment: a server-installable internal, convenient tabletop or space-efficient rackmount configuration.



## Quantum LTO-2 HH Tape Drive

### About Quantum

Quantum, a global leader in storage, delivers highly reliable backup, recovery and archive solutions that meet demanding requirements for data integrity and availability with superior price/performance and comprehensive service and support. Quantum is the world's largest supplier of tape drives, and its DLT®, LTO Ultrium, DAT/DDS and Travan-based technologies set the standards for tape backup, recovery and archive of business-critical data for the small business to mid-range enterprise. Quantum offers the broadest portfolio of tape autoloaders and libraries and is one of the pioneers in the disk-based backup market, providing solutions that emulate a tape library but are optimized for backup and recovery.

### QUANTUM LTO-2 HH SPECIFICATIONS

#### Performance

Sustained Transfer Rate	
Native	26MB/sec, 94GB/hr
Compressed*	52MB/sec, 187GB/hr
Burst Transfer Rate (MB/sec)	
Ultra 160 SCSI (max)	160
Formatted Capacity (GB)	
Native	200
Compressed*	400
Cartridge Load Times (sec)	
Cartridge Unload	30
Average File Access Time (sec)	58
Interfaces Available	Ultra 160 SCSI

#### Compatibility

Media Read/Write	LTO-1 and 2
Operating Systems	Windows Desktop, Windows Server, Novell NetWare, Unix, Linux, Mac OS
Backup Software	Backup Exec™ QuickStart software, BakBone, Computer Associates, Dantz, NovaStor and Yosemite Technologies

#### Reliability

MTBF (hours)	250,000 @ 100% duty cycle
Non-recoverable Error Rate	< 1 in 10 <sup>17</sup> bits

#### Physical Specifications

Form Factor	Internal	Tabletop	Rackmount
Width (in/mm)	5.8/148.1	7.6/193.0	17.7/449.6
Height (in/mm)	1.7/43.4	4.6/116.8	1.7/43.2
Length (in/mm)	8.9/227.0	12.1/307.3	20.0/508.0
Weight (lbs/kg)	3.3/1.5	10.4/4.7	15.8/7.2

#### Environmental Limits

Operating	
Temperature °F (°C)	50° to 104° (10° to 40°)
Non-Condensing Humidity (%)	80
Altitude (ft. maximum)	10,000 feet MSL (at 25°C)
Non-Operating	
Temperature °F (°C)	-40° to 149° (-40° to 66°)
Non-Condensing Humidity (%)	10 to 95

#### Power

Voltage (V)	+5/+12
Power Consumption (W)	34

#### Tape Format Specifications

Recording Format	LTO-2
Recording Density	3,930 RLL-encoded ONEs per mm
Encoding Method	0.13/11 RLL
Data Compression	ALDZ-2

#### Tape/Format Compatibility

LTO-2 (read/write)	200GB native capacity
LTO-1 (read/write)	100GB native capacity

#### Tape Specifications

Cartridge Dimensions	4.1" x 4.1" x 1.0" (104.1mmx104.1mmx25.4mm)
Archive Storage	30 years
Durability	5,000 load/unload cycles

#### Warranty

Tape	Limited lifetime
Tape Drive	3 year limited with Rapid Exchange

\* Assumes 2:1 compression

**Quantum.**



For more information,  
visit [quantum.com](http://quantum.com)

**United States of America**  
Quantum Corporation  
141 Innovation Drive  
Irvine, CA 92612  
U.S.A.  
phone 949.856.7800  
fax 949.856.7799

**European Headquarters**  
Quantum Corporation  
3 Bracknell Beeches  
Old Bracknell Lane West  
Bracknell  
Berkshire RG12 7BW  
United Kingdom  
phone +44 1344 353500  
fax +44 1344 353510

**Asia Pacific**  
Quantum Storage Singapore Pte Ltd  
9 Temasek Blvd. #08-03  
Suntec Tower Two  
Singapore 038989  
phone +65 6432 2812  
fax +65 6432 2790

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