



LTO-3 HH

High Performance Data Protection
in a simple and affordable half
height form factor

Quantum's LTO-3 HH tape drive provides the fastest native transfer rate of any half-height drive at 245GB/hr while offering up to 400GB of native capacity. Its simple half-height form factor and SCSI or SAS interface option allow easy installation and integration into your datacenter. The LTO-3 HH tape drive is backward read and write compatible with LTO-2 media and backward read compatible with LTO-1 media.

Quantum's exclusive FastSense™ feature maximizes the transfer rates of the LTO-3 HH tape drives by using a multiple speed sensor that matches the speed at which the drive is streaming data to optimize the backup cycle. This virtually eliminates the normal "back-hitching" that slows down many tape drives. In addition, Quantum adds exclusive features like SmartVerify™ to concurrently verify all data written to the tape, virtually eliminating the time consuming verify pass during backup operations. And, an advanced cooling design helps provide extended tape life.

The LTO-3 HH is available in a server-installable internal, convenient tabletop or space-efficient rackmount configuration. Quantum "Backup Ready" certified solutions allow you to go from box-to-backup in minutes with the highly reliable Quantum LTO-3 HH tape drive, world-class Backup Exec™ QuickStart software and durable Quantum media.

- UP TO 400GB¹ NATIVE CAPACITY
- UP TO 245GB/HR TRANSFER RATE
- "BACKUP READY" SOLUTION
- 3 YEAR RAPID EXCHANGE WARRANTY

FEATURES AND BENEFITS

-  Superior Performance – LTO-3 HH reaches native transfer speeds of up to 245GB/hr
-  Complete Solution – Backup Exec™ QuickStart backup software plus data and cleaning cartridges
-  Reliability You Can Trust – Exclusive features like SmartVerify™ and Dynamic PowerDown™
-  Compatibility – Previous generation media read and write capabilities
-  LTO WORM (Write Once, Read Many) – addresses regulatory and compliance requirements
-  Available in Ultra 160 SCSI or 3Gb/s SAS

¹ Based on 2:1 compression



DRIVE CAPACITY AND PERFORMANCE

Drive Type	Interface	Cartridge Capacity	Drive Throughput	Average File
		Native/Compressed ¹ (GB)	Native/Compressed* (MB/sec)	Access Time (sec)
LTO-3HH	Ultra 160 SCSI	400 / 800	68 / 90	60
LTO-3HH	3Gb/s SAS	400 / 800	68 / 136	60

Configurations: Internal Bare, Internal Kit, Tabletop Kit and 1U Rackmount

Interface Connector Type:

SCSI:	HD68-pin (all configurations)
SAS:	SFF8088 (Tabletop and 1U Rack), 7-Pin 1X SATA Style (Internal Bare and Internal Kit)

Burst Transfer Rate (MB/sec)

SCSI (max):	160
SAS (max):	300

TAPE/FORMAT COMPATIBILITY

LTO-3 WORM (read/write):	400GB native capacity
LTO-3 (read/write):	400GB native capacity
LTO-2 (read/write):	200GB native capacity
LTO-1 (read only):	100GB native capacity

RELIABILITY

MTBF (hours):	250,000 @ 100% duty cycle
MCFB:	100,000 Load/Thread/Unload
Non-recoverable Error Rate:	1 x 10 ¹⁷ bits (non-media error, clean drive)

PHYSICAL SPECIFICATIONS

Form Factor	Internal w/o bezel	Internal w/ bezel	Tabletop
Width (in/mm)	5.76 / 146.3	5.87 / 149.1	8.35 / 212.1
Height (in/mm)	1.63 / 41.3	1.7 / 43.1	2.6 / 66.2
Length (in/mm)	8.56 / 217.5	8.76 / 222.57	10.73 / 272.49
Weight (lbs/kg)	3.66 / 1.66	3.72 / 1.69	8.0 / 3.63

ENVIRONMENTAL

Operating	
Temperature °F (°C):	50° to 104° (10° to 40°)
Humidity:	80% (non-condensing)
Altitude (ft. maximum):	10,000 feet MSL (at 25°C)
Non-Operating	
Temperature °F (°C):	-40° to 149° (-40° to 66°) excluding media
Humidity (%):	10 to 95 (non-condensing)
Voltage (V):	+5, +12
Power Consumption (W):	Less than 36 W Maximum Peak, Less than 28 W Typical

TAPE FORMAT SPECIFICATIONS

Recording Format:	LTO Ultrium 3
Recording Density:	5,120 RLL-encoded ONEs per mm
Encoding Method:	0.13/11 RLL
Data Compression:	ALDZ-2

COMPATIBILITY

Operating Systems:	Windows Desktop, Windows Server, Novell NetWare, UNIX, Linux, Mac OS
Software/Hardware:	Go to www.quantum.com for the most up-to-date tested solutions

TAPE SPECIFICATIONS

Cartridge Dimensions:	4.1" x 4.1" x 1.0" (104.1mmx104.1mmx25.4mm)
Archive Storage:	30 years
Durability:	20,000 load/unload cycles

WARRANTY

Tape:	Limited lifetime
Tape Drive:	3 year limited with Rapid Exchange

¹ Based on 2:1 compression

Model Numbers and Descriptions

TC-L32AX-BR	LTO-3 HH, Internal Bare, Ultra 160 SCSI, black bezel	TC-L32AN-BR	LTO-3 HH, Internal Bare, 3Gb/s SAS, black bezel
TC-L32AX-EY	LTO-3 HH, Internal Kit, Ultra 160 SCSI, black bezel	TC-L32AN-EY	LTO-3 HH, Internal Kit, 3Gb/s SAS, black bezel
TC-L32BX-EY	LTO-3 HH, Tabletop Kit, Ultra 160 SCSI, black bezel	TC-L32BN-EY	LTO-3 HH, Tabletop Kit, 3Gb/s SAS, black bezel
TC-L33CX-EY	LTO-3 HH, 1U Rackmount, Ultra 160 SCSI, black bezel	TC-L33CN-EY	LTO-3 HH, 1U Rackmount, 3Gb/s SAS, black bezel

 For contact and product information, visit quantum.com or call 800-677-6268

Quantum[®]

Backup. Recovery. Archive. It's What We Do.

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About Quantum

Quantum Corp. (NYSE:QTM) is the leading global storage company specializing in backup, recovery and archive. Combining focused expertise, customer-driven innovation, and platform independence, Quantum provides a comprehensive range of disk, tape, media and software solutions supported by a world-class sales and service organization. As a long-standing and trusted partner, the company works closely with a broad network of resellers, OEMs and other suppliers to meet customers' evolving data protection needs.