



LTO-4 HH

High Performance. Half the Size.
Incredible Value.

Quantum's LTO-4 HH tape drive is a half-height tape drive that offers high capacity, 1.6TB (2:1 compressed) and performance, 576GB/hr (2:1 compressed), all in a space saving and energy efficient half-height format. Quantum's LTO-4HH tape drive also provides native AES 256-bit hardware data encryption, providing easy-to-enable security to protect the most sensitive data and prevent unauthorized access of tape cartridges. By using LTO-4 encryption, not only is data fully capable of being compressed therefore maximizing capacity, encrypted backups are completed without a loss in performance.

Quantum's LTO-4 HH tape drives protect your investment by providing backward read and write compatibility with LTO-3 media and backward read compatibility with LTO-2 media. With ultimate reliability and ease of use in mind, even at a 100% duty cycle, Quantum's rugged design builds on superior LTO technology and adds advanced features to create a new level of data protection. Quantum's LTO-4 HH tape drives employ dynamic data rate matching to adjust to the speed of the host, reducing wear and tear on both drive and media and increasing performance, even on slower hosts. The drive also features a ultra-durable soft-load feature that automatically positions the data cartridge, and the highly reliable leader-capture mechanism virtually eliminates lost leaders, increasing the success of your backup and restore operations.

Quantum's LTO-4 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-4 HH tape drive, world-class Backup Exec™ QuickStart software and durable Quantum media.

TAPE DRIVE

UP TO 1.6TB CAPACITY
(2:1 COMPRESSION)

UP TO 576GB/HR TRANSFER RATE (2:1)

AES 256-BIT DATA ENCRYPTION
SECURITY FEATURE

"BACKUP READY" SOLUTION WITH
3-YEAR RAPID EXCHANGE WARRANTY

FEATURES AND BENEFITS

- **Performance** – Transfer rates of 576GB/hr
- **Capacity** – Capacity of 1.6TB – 2X LTO-3 HH and the same as the full height LTO-4
- **Value** – Cost-effective half-height design allows for more attractive price point versus full-height drives
- **Format/Security** – Space-saving half-height format, AES 256-bit native encryption, WORM capability
- **Compatibility** – Investment protection with backward read/write compatibility to LTO-3 media and backward read compatibility to LTO-2 media

DRIVE CAPACITY AND PERFORMANCE

Drive Type	Interface	Cartridge Capacity Native/Compressed (GB)	Drive Throughput Native/Compressed (MB/sec)	Average File Access Time (sec)
LTO-4 HH	3 Gb/sec SAS	800 / 1600	80 / 160	80
LTO-4 HH	Ultra 320 SCSI	800 / 1600	80 / 160	80

Configurations:	Internal Bare, Internal Kit, Tabletop Kit and 1U Rackmount
Interface Connector Type	
3 Gb/s SAS:	SFF8482 (Internal), SFF8088 (Tabletop and Rack)
Ultra 320 SCSI:	HD68 LVDS
Burst Transfer Rate (MB/sec)	
SAS (max):	300
SCSI (max):	320
Data Rate Matching Range:	33 to 80 MB/sec native
Data Buffer Size	128 MB

TAPE/FORMAT COMPATIBILITY

LTO-4 (read/write):	800GB native capacity
LTO-4 WORM (read/write):	800GB native capacity
LTO-3 (read/write):	400GB native capacity
LTO-3 WORM (read/write):	400GB native capacity
LTO-2 (read/write):	200GB native capacity

RELIABILITY

MTBF (hours):	250,000 @ 100% duty cycle
Load/Unload Life:	50,000 cycles
Non-recoverable Error Rate:	1 × 10 ¹⁷ bits (non-media error, clean drive)

PHYSICAL SPECIFICATIONS

Form Factor	Internal w/o bezel	Internal w/ bezel	Tabletop	1U Rackmount
Width (in/mm)	5.75 / 146.1	5.88 / 149.3	8.8 / 223	19.0 / 483
Height (in/mm)	1.63 / 41.7	1.69 / 42.9	3.0 / 77.0	1.75 / 44.4
Length (in/mm)	8.11 / 206	8.3 / 211	11.7 / 295	25.25 / 641
Weight (lbs/kg)	3.0 / 1.36	3.09 / 1.4	10.3 / 4.65	20.0 / 9.1

ENVIRONMENTAL

OPERATING	
Temperature °F (°C):	50° to 104° (10° to 40°) @ 5 CFM
Humidity:	20% to 80% (non-condensing)
Altitude (maximum):	13,000 ft (4,000 m)
NON-OPERATING	
Temperature °F (°C):	-40° to 150° (-40° to 66°) excluding media
Humidity:	10% to 95% (non-condensing)
VOLTAGE (V):	+5VDC, +12VDC (internal); 100-240 VAC 50/60 Hz (external)
POWER CONSUMPTION	
Idle:	8 Watts
Typical:	20 Watts
Peak:	33 Watts

TAPE FORMAT SPECIFICATIONS

Recording Format:	LTO Ultrium 4
Recording Density:	13.52 Kb/mm
Encoding Method:	16 Channel PRML
Data Compression:	ALDC

COMPATIBILITY

Operating Systems:	Microsoft Windows, Sun Solaris, Red Hat Linux, SuSE Linux
Software/Hardware:	Go to www.quantum.com for the most up-to-date tested solutions

TAPE SPECIFICATIONS

Cartridge Dimensions (L×W×H):	4" × 4.15" × .85" (102mm × 105.4mm × 21.5mm)
Archive Storage:	30 years
Durability:	20,000 load/unload cycles

WARRANTY

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

Model Numbers and Descriptions

TC-L42AX-BR-B	LTO-4 HH, Internal Bare, SCSI, black bezel
TC-L42AX-EY-B	LTO-4 HH, Internal Kit, SCSI, black bezel
TC-L42BX-EY-B	LTO-4 HH, Tabletop Kit, SCSI, black
TC-L43CX-EY-B	LTO-4 HH, 1U Rackmount, SCSI, black
TC-L42AN-BR-B	LTO-4 HH, Internal Bare, SAS, black bezel

TC-L42AN-EY-B	LTO-4 HH, Internal Kit, SAS, black bezel
TC-L42AN-EZ-B	LTO-4 HH, Internal Kit, SAS with HBA, black bezel
TC-L42BN-EY-B	LTO-4 HH, Tabletop Kit, SAS, black
TC-L42BN-EZ-B	LTO-4 HH, Tabletop Kit, SAS with HBA, black
TC-L43CN-EY-B	LTO-4 HH, 1U Rackmount, SAS, black

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

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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. This includes the DXi®-Series, the first disk backup solutions to extend the power of data deduplication and replication across the distributed enterprise. 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.