Quantum

LTO-4 HH

> DATASHEET

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-4 HH 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, but encrypted backups are also 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 backwardread 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-andtear on both drive and media and increasing performance, even on slower hosts. The drive also features an ultra-durable soft-load feature that automatically positions the data cartridge, and the highly reliable leadercapture 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 and durable Quantum media.





FEATURES & BENEFITS

Quantum

Capacity Capacity of 1.6TB – 2X LTO-3 HH.

Value

Cost-effective half-height design allows for more attractive price point versus fullheight drives.

Format/Security

Space-saving half-height format, AES 256-bit native encryption, WORM capability.

Compatibility

Investment protection with backwardread/write compatibility to LTO-3 media and backward-read compatibility to LTO-2 media.

Warranty

"Backup Ready" Solution with 3-year rapid exchange warranty.



DRIVE CAPACITY AND PERFORMANCE

Drive Type	Interface	Cartridge Capacity Native/Compressed (GB)	Drive Throughput Native/Compressed (MB/sec)	
LTO-4 HH	3GB/sec SAS	800 / 1600	120 / 240	
LTO-4 HH	Ultra 320 SCSI	800 / 1600	80 / 160	
Interface Connecto	r Type			

 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 / 223.0	19.0 / 483.0
Height (in/mm)	1.63 / 41.7	1.69 / 42.9	3.0 / 77.0	1.75 / 44.4
Length (in/mm)	8.11 / 206.0	8.3 / 211.0	11.7 / 295.0	25.25 / 641.0
Weight (lbs/kg)	3.0 / 1.36	3.09 / 1.4	10.3 / 4.65	20.0 / 9.1

LTO-4 HH SAS				
Form Factor	Internal w/o bezel	Internal w/ bezel	Tabletop	1U Rackmount
Width (in/mm)	5.7 / 146.0	5.8 / 148.0	8.4 / 213.0	19.0 / 483.0
Height (in/mm)	1.6 / 41.0	1.7 / 42.7	2.3 / 58.0	1.75 / 44.4
Length (in/mm)	8.1 / 205.0	8.3 / 210.0	13.0 / 332.0	20.0 / 9.1
Weight (lbs/kg)	3.55 / 1.61	3.57 / 1.62	9.4 / 4.3	20.0 / 9.1

ENVIRONMENTAL

OPERATING Temperature °F (°C): Humidity: Altitude (maximum):	50° to 104° (10° to 40°) @ 5 CFM 20% to 80% (non-condensing) 13,000 ft (4,000 m)	
NON-OPERATING Temperature °F (°C): Humidity:	-40° to 150° (-40° to 66°) excluding media 10% to 95% (non-condensing)	
VOLTAGE (V):	+5VDC, +12VDC (internal); 100-240 VAC 50/60 Hz (external)	
POWER CONSUMPTION LTO-4	HH SCSI	
Idle:	8 Watts	
Typical:	20 Watts	
Peak:	33 Watts	
POWER CONSUMPTION LTO-4	HH SAS	
Idle:	6.5 Watts	
Typical:	24.7 Watts	
Peak:	69 Watts	
TAPE FORMAT SPECIFICATIONS		
Recording Format:	LTO Ultrium 4	
Recording Density:	13.52KB/mm	

16 Channel PRML

tested solutions

ALDC

Data Compression:

Encoding Method:

Operating Systems: Software/Hardware:

TAPE SPECIFICATIONS

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

Microsoft Windows, Sun Solaris, Red Hat Linux, SuSE Linux

Go to www.guantum.com for the most up-to-date

WARRANTY

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

Model Numbers and Descriptions

TC-L42AX-BR-BLTO-4 HH, Internal Bare, SCSI, black bezelTC-L42AX-EY-BLTO-4 HH, Internal Kit, SCSI, black bezelTC-L42BX-EY-BLTO-4 HH, Tabletop Kit, SCSI, blackTC-L43CX-EY-BLTO-4 HH, 1U Rackmount, SCSI, blackTC-L42AN-BR-CLTO-4 HH, Internal Bare, SAS, black bezel

TC-L42AN-EY-CLTO-4 HH, Internal Kit, SAS, black bezelTC-L42AN-EZ-CLTO-4 HH, Internal Kit, SAS with HBA, black bezelTC-L42BN-EY-CLTO-4 HH, Tabletop Kit, SAS, blackTC-L42BN-EZ-CLTO-4 HH, Tabletop Kit, SAS with HBA, blackTC-L43CN-EY-BLTO-4 HH, 1U Rackmount, SAS, black

To learn more about Quantum LTO, please visit www.quantum.com/lto

©2014 Quantum Corporation (NYSE:QTM). All rights reserved. Quantum and the Quantum logo are registered trademarks of Quantum Corporation and its affiliates in the United States and/or other countries. Linear Tape-Open, LTO, the LTO Logo, Ultrium and the Ultrium Logo are registered trademarks of HP, IBM and Quantum in the US and other countries. All other trademarks are the property of their respective owners.



www.quantum.com • 800-677-6268