

Quantum®

LTO Ultrium

> DATASHEET

Meeting the Needs of a Broad Market

WHY CHOOSE QUANTUM LTO ULTRIUM MEDIA

- Quantum's LTO Ultrium media is manufactured to the highest industry standards for quality and reliability ensuring high performance and durability, whether utilized for primary backup or long-term archive.
- A pioneer of the LTO Consortium, Quantum is committed to the continued development of the LTO platform. Quantum's comprehensive media quality monitoring and extensive interoperability testing ensures cross-platform compatibility, optimal performance, and reliability whether you're using a Quantum tape drive, library, or other LTO-compatible hardware.
- Quantum's LTO Ultrium media is compliant with all Media Integrity Analysis utilities. However, use Quantum LTO Ultrium media with Quantum's Advanced Media Usage Report and Extended Data Life Management (EDLM), and you add another level of protection throughout the lifecycle of your data. Media analysis and usage reports provide a view of the media condition for an entire media pool used within a specific tape library, even those in off-site storage. EDLM is a unique Scalar® automation feature designed to ensure the media integrity of cartridges placed in long-term archival or vaulted storage and are no longer used during normal operations. When your critical data is involved, it's important to have a complete health record of your media.
- LTO Ultrium WORM (Write Once, Read Many) media cartridges are available to meet today's stringent regulatory and compliance requirements. Combined with native AES 256-bit encryption on LTO-7, LTO-6, LTO-5, and LTO-4 drives, WORM cartridges physically prevent data from being overwritten or tampered with, providing a reliable, accurate, and scalable data integrity solution.

- Quantum's LTO media offering supports your comprehensive, "edge-to-core" backup, recovery, and archive strategy. When you use Quantum media and hardware, you get the added assurance of over 30 years of storage experience and service behind the entire solution.

QUANTUM OFFERS COMPLIMENTARY VALUE-ADDED SERVICES TO SAVE YOU TIME AND MONEY MANAGING YOUR MEDIA

Quantum is performing additional process and quality tests on its LTO Ultrium data media, demonstrating our continuing commitment to provide the highest quality LTO media. The Quantum Certification focuses on five key user metrics: capacity, transfer rate, servo, and green media characteristics, with specific emphasis on testing the durability of the written data.

Have you ever spent hours unpacking, labeling, and loading media into your library? Why waste IT resources unpacking boxes and labeling cartridges? Your time and your data are valuable. We understand that.

- Allow Quantum to pre-label your data cartridges with your requested bar code label sequences and color scheme. They will arrive ready to load into the library.

No need for individual cartridge cases? No problem! We offer "library packaging" to save you time!

- This eco-friendly bulk packaging option protects cartridges during shipment and storage without the individual cartridge cases. This allows quicker access to the cartridges to expedite loading into automation slots/trays—and it results in less waste.

Combine bar code labeling with library packaging and save even more time!



FEATURES & BENEFITS

High Storage Capacity

Up to 6TB native and up to 15TB* compressed

Up to 30-Year Archival Life

Compliant with All Media Integrity Analysis Utilities

Adds another level of data protection

WORM (Write Once, Read Many)

Addresses today's tough regulatory and compliance needs

High Performance

A high-durability non-contact IC memory chip up to 16KB is built in; this contributes to significant improvement in tape library access and health reporting

Bar Code Labeling and Library Packaging

Available to quickly load automation slots/trays

Over 30 Years of Experience

Demonstrated top performance and innovation in hardware and media products

* Based on 2.5:1 compression (LTO-6 and LTO-7), 2:1 compression (other LTO)



> LEARN MORE:
www.quantum.com/lto

TECHNICAL SPECIFICATIONS

BASIC GENERATION SPECIFICATIONS

	Ultrium 7 Ultrium 7 WORM	Ultrium 6 Ultrium 6 WORM	Ultrium 5 Ultrium 5 WORM	Ultrium 4 Ultrium 4 WORM	Ultrium 3 Ultrium 3 WORM	Ultrium 2	Ultrium Universal Cleaning
Drive Compatibility	LTO-7 LTO-7 WORM	LTO-6 LTO-6 WORM	LTO-5 LTO-5 WORM	LTO-4 LTO-4 WORM	LTO-3 LTO-3 WORM	LTO-2	All
Cartridge Color	Purple Purple/Gray	Black Black/Gray	Brick Red Brick Red/Gray	Green Green/Gray	Blue Blue/Gray	Purple	Black
Capacity (Native/Compressed)	6/15TB ¹	2500/6250GB ¹	1500/3000GB ¹	800/1600GB ¹	400/800GB ¹	200/400GB ¹	Maximum 50 cleanings— drive dependent
Tape Length	960m [3,150']	846m [2,776']	846m [2,776']	820m [2,690']	680m [2,231']	609m [1,998']	319m [1,046.59']

DIMENSIONS

Tape Width	12.65mm (0.50")
Cartridge Dimensions	21.5x105.4x102.0mm [0.85"x 4.15"x4.02"] [W x H x L]

OPERATING ENVIRONMENT

Temperature	10 - 45°C (50 - 113°F)
Humidity	10 - 80%RH

READ/WRITE COMPATIBILITY

Read/write compatibility between generations of drives and formats is as follows:

An Ultrium drive reads data from a cartridge in its own generation and at least the two prior generations. For example, an LTO-7 drive can read data from an LTO-7, LTO-6 and LTO-5 data cartridge.

An Ultrium drive writes data to a cartridge in its own generation and to a cartridge from the immediate prior generation in the prior generation format. For example, an LTO-7 drive can write data to an LTO-7 and LTO-6 data cartridge.

STORAGE ENVIRONMENT – NON-ARCHIVE

	Ultrium 7, 6 and 5	Ultrium 4, 3, 2, 1 and Cleaning
Temperature	16 - 35°C (61 - 95°F)	16 - 32°C (61 - 90°F)
Humidity	20 - 80%RH	20 - 80%RH

STORAGE ENVIRONMENT – ARCHIVE

Temperature	16 - 25 °C (61 - 77°F)
Humidity	20 - 50%RH
(Not applicable for cleaning cartridge)	

LTO ULTRIUM MEDIA PRODUCT SERVICE AND SUPPORT

Quantum LTO Ultrium cartridge tapes are free from defects in material and manufacturing at the time of purchase. This limited lifetime warranty extends to the original end-user purchaser of the product and is not assignable or transferable to any subsequent purchaser or end-user. Visit our website for more information.

¹ Based on 2.5:1 compression

² Based on 2:1 compression

Model Numbers and Descriptions

	Standard	WORM	Bar Code Labeled	Bar Code Labeled – WORM	Library Pack	Bar Code Labeled Library Pack
Ultrium 7	MR-L7MQN-01	MR-L7MQN-02	MR-L7MQN-BC	MR-L7WQN-BC	MR-L7MQN-20	MR-L7LQN-BC
Ultrium 6	MR-L6MQN-03	MR-L6WQN-04	MR-L6MQN-BL	MR-L6WQN-BL	MR-L6LQN-LP	MR-L6LQN-BL
Ultrium 5	MR-L5MQN-01	MR-L5MQN-02	MR-L5MQN-BC	MR-L5WQN-BC	MR-L5MQN-20	MR-L5LQN-BC
Ultrium 4	MR-L4MQN-01	MR-L4MQN-02	MR-L4MQN-BC	MR-L4WQN-BC	MR-L4MQN-20	MR-L4LQN-BC
Ultrium 3	MR-L3MQN-01	MR-L3MQN-02	MR-L3MQN-BC	MR-L3WQN-BC	MR-L3MQN-20	MR-L3LQN-BC
Ultrium 2	MR-L2MQN-01		MR-L2MQN-BC			
Ultrium Cleaning	MR-LUCQN-01		MR-LUCQN-BC			

ABOUT QUANTUM

Quantum is a leading expert in scale-out storage, archive, and data protection, providing solutions for capturing, sharing, and preserving digital assets over the entire data lifecycle. From small businesses to major enterprises, more than 100,000 customers have trusted Quantum to address their most demanding data workflow challenges. Quantum's end-to-end, tiered storage foundation enables customers to maximize the value of their data by making it accessible whenever and wherever needed, retaining it indefinitely and reducing total cost and complexity. See how at www.quantum.com/customerstories.

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