

ZERO TAPE MEDIA

OVERVIEW

ZERO Ultrium Tape Media is a secure, high-capacity, and cost-effective solution for long-term storage and data protection, offering reliability, scalability, and energy efficiency to meet the challenges of growing data needs.



FEATURES & BENEFITS

High Capacity & Scalability

Each generation of LT ZERO tapes increases in capacity. This scalability makes LT ZERO tapes suitable for a wide range of data storage needs, from small businesses to large enterprises.

Cost Effective

LT ZERO tapes provide a low cost per tetrabyte, making them an economical choice for long-term data storage and archiving. Reduced power and cooling requirements also contribute to overall savings.

Long Term Durability

LT ZERO tapes are designed for durability and longevity, with a shelf life of up to 30 years, ensuring data integrity over long periods.

Data Security

Built-in hardware encryption (AES-256) and Write Once, Read Many (WORM) functionality help meet regulatory compliance and protect data from unauthorized access and tampering.

Reliability

Highly reliable and offers peace of mind for long term data archiving and backup due to its low bit error rate, error correction capabilities and redundancy features.

Versatility

LT ZERO tapes are compatible with automated tape libraries and robotics, enabling streamlined data management.

TECHNICAL SPECIFICATIONS

FEATURES	ZERO LTO-7	ZERO LTO-8	ZERO LTO-9
Release Date	2015	2017	2020
Native Capacity	6 TB	12 TB	18 TB
Compressed Capacity	15 TB	30 TB	45 TB
Native Transfer Rate	300 MB/s	360 MB/s	400 MB/s
Compressed Transfer Rate	750 MB/s	900 MB/s	1000 MB/s
Data Tracks	3584	6656	8960
Encryption	AES-256	AES-256	AES-256
WORM Support	Yes	Yes	Yes
Backward Read Compatibility	LTO-5 LTO-6	LTO-6 LTO-7	LTO-7 LTO-8
Bit Error Rate	1x10 ⁻¹⁹	1x10 ⁻¹⁹	1x10 ⁻¹⁹
Tape Length	960 m	960 m	1035 m
Cartridge Size	102 x 105.4 x 21;5mm		
Durability	Estimated 30-year shelf life		

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APPLICATIONS AND USE CASES

ZERO Ultrium Tape media is versatile and used in various scenarios where reliable, high-capacity, and secure data storage are essential. Here are some common use cases:



BACKUP & RECOVERY

Regularly saving copies of critical data to protect against data loss

- Daily, Weekly, Monthly Backups: Organizations use LTO tapes for routine backups of important files and databases.
- Disaster Recovery: Ensuring data can be restored in the event of system failures, cyber-attacks, or natural disasters.

ARCHIVAL STORAGE

Long-term preservation of data that is not frequently accessed but must be retained for future reference

- Compliance and Legal Requirements: Storing records and documents to comply with regulatory standards and legal requirements.
- Historical Data Preservation: Archiving data for historical reference, research, or future analysis.

DATA TRANSFER & EXCHANGE

Moving large volumes of data between locations

- Physical Transport: Using LTO tapes to transport data where network transfer is impractical due to size or bandwidth limitations.
- Data Migration: Transferring data between different storage systems or locations during infrastructure upgrades or relocations.

COLD STORAGE

Cost-effective storage for data that is rarely accessed but must be retained

- Inactive Projects and Files: Archiving completed projects, old records, and infrequently accessed data to free up primary storage space.
- Media and Entertainment: Storing large video files, movie archives, and other media content.

DATA PROTECTION & SECURITY

Ensuring the integrity and confidentiality of stored data

- Encryption: Using LTO's AES-256 encryption to protect sensitive data from unauthorized access.
- WORM (Write Once, Read Many): Preventing data from being overwritten or altered, ensuring data integrity for compliance and legal evidence.

BIG DATA & ANALYTICS

Storing vast amounts of data generated by big data applications

- Data Lakes: Storing raw data in its native format for future analysis.
- Scientific Research: Preserving large datasets generated by research institutions for long-term study and analysis.



LT ZERO is a leading provider of comprehensive data management solutions, specializing in data backup, archival, and restoration solutions. Leveraging on cutting-edge technology and strategic collaboration with BDT, a leader in manufacturing of Tape Libraries, LT ZERO ensures robust and reliable data protection for businesses of all sizes.