

# 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 terabyte, 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	ZERO LTO-10
Release Date	2015	2017	2020	2025
Native Capacity	6 TB	12 TB	18 TB	30 TB
Compressed Capacity	15 TB	30 TB	45 TB	75 TB
Native Transfer Rate	300 MB/s	360 MB/s	400 MB/s	400 MB/s
Compressed Transfer Rate	750 MB/s	900 MB/s	1000 MB/s	1000 MB/s
Data Tracks	3584	6656	8960	15,104
Encryption	AES-256	AES-256	AES-256	AES-256
WORM Support	Yes	Yes	Yes	Yes
Bit Error Rate	1x10 <sup>-19</sup>	1x10 <sup>-19</sup>	1x10 <sup>-19</sup>	1x10 <sup>-19</sup>
Tape Length	960 m	960 m	1035 m	1035m
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.