

LT ZERO TAPE LIBRARY

OVERVIEW

LT ZERO Tape Library is a high-density, highly scalable, and easy-to-manage solution designed for secure long-term data storage. The modular design allows for vertical scaling, accommodating Linear Tape-Open (LTO) Ultrium cartridges, drives, and redundant power supplies. This solution addresses the needs of midrange and enterprise businesses by providing automated backup with flexibility, high performance, and affordability, ensuring data protection that is faster, smarter, easier, and more cost-effective.

KEY FEATURES



Scalability

Highly scalable and offer modular expansion options, accommodating from 40 up to 640 cartridge slots, making them suitable for mid-range to large enterprises.



High Density

Designed to maximize storage density, enabling large amounts of data to be stored in a compact footprint. They support multiple tape drives and high-capacity tape cartridges, such as LTO technology.



Automation

Equipped with robotic automation for tape handling, which enhances reliability and reduces the need for manual intervention. Automated tape loading and unloading improve operational efficiency and reduce the risk of human error.



Reliability and Redundancy

Built for high reliability, with features such as redundant power supplies and failover capabilities to ensure continuous operation. They have a low bit error rate (BER), ensuring data integrity and long-term preservation.



Data Security

Support encryption technologies, such as AES-256, to secure data on tapes. WORM functionality is available for compliance with data integrity regulations.



Management and Monitoring

Provide advanced management software for monitoring and controlling the tape library operations. Features include remote management, real-time diagnostics, and reporting tools to optimize performance and simplify maintenance.



Compatibility

Compatible with various tape technologies, including LTO, ensuring broad interoperability with existing IT infrastructure.

BENEFITS



Cost Effective Storage

Lower costs per terabyte and lower energy usage help reduce overall operational costs. It also reduce both CAPEX and OPEX costs associated with data center space and utilities.



Long Term Data Preservation

Ideal for long-term archival storage, with a typical shelf life of 30 years for tapes.



Efficient Backup and Recovery

High-speed data transfer rates and automation features ensure efficient backup and recovery operations. Minimizes downtime and enhances data availability.



Secure Data Storage

Encryption and WORM features provide robust data security, protecting against unauthorized access and ensuring data integrity to meet compliance requirements. It also reduces the threat of ransomware and cyberattack due to its air gapped capabilities.



Scalable and Flexible

Flexibility in configuration and compatibility with various tape technologies ensures adaptability to different IT environments.

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TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS
Drive Type	Half-height, Full-height LTO -6 / -7 / -8 / -9
Media Type	Ultrium LTO-6 / -7 / -8 / -9
Interface Type	SAS or Fibre Channel
Form Factor	3U, up to 48U
Number of Modules	1 main module, with 15 expansion modules
Drive Capacity	Max. 3 LTO HH Drive (or 1 FH/1 HH Drives) to Max. 48 LTO HH Drives (or 16 FH/16 HH Drives)
Slot Capacity	40, up to 640
Mailshot Quantity	5, up to maximum 80
Number of Magazine	2, up to 32
Native Capacity	From 720 TB (LTO-9) per Module, up to 11.52 PB (LTO-9) per Library
Compressed Capacity (2,5:1)	1800 TB (LTO-9) per Module, up to 28.8 PB (LTO-9) per Library
Transfer Rate	Drive and interface dependent (with LTO-9 FH up to 400 MB/s)
Robotic MSBF	2,000,000
Front Operator Panel	Password-protected with menus for configuration, management, status and diagnostics; 3.5" monochrom display with button panel
Remote Management Interface	Via standard Ethernet connection 10/100/1000 Mbit; web-based, no client tool necessary, management and configuration on main module
Partifions	Max. 20, dynamically configurable
Safety	SSL/TLS 1.2, User Management / LDAP Intergration
Network and Protocol	1 Gbit Ethernet, IPv4/IPv6
Configuration	Wizard based
Network Management	SNMP with Trap Alerts; Error and Warning Email Alert System
Error and System Logging	Sophisticaed log-system using error dependent user guidance
Power Requirement	100-240 VAC (50-60 Hz)
Operating Environment	Temperature: 10 - 35 degree celsius, Humidity: 20% - 80% (non condensing)
Dimensions (W x D x H)	475 x 892 x 134mm (empty base), 700 x 1160 x 320mm (packaged)
Weight	20kg (empty base), 54.5kg (packaged)

ABOUT

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.