

ORION MC6

ENTERPRISE TAPE LIBRARY

Scale Without Limits. Archive with Confidence.

ORION MC6 is a high-performance, modular tape library engineered for mid-sized businesses, hyperscalers, and enterprises that demand massive capacity, high reliability, and long-term data protection.

With a scalable architecture up to 48U, support for LTO-8, LTO-9 and LTO-10, and up to 1,115 storage slots with 24 full-height drives, ORION MC6 is built to scale with your data and protect your future.



1,115

STORAGE SLOTS

Up to 1,115 LTO cartridge slots in full 48U library



24

FULL-HEIGHT DRIVES

Up to 24 full-height SAS drives per library



48U

RACK FORM FACTOR

Scalable from 6U base up to 48U full rack



LTO-8 / LTO-9 / LTO-10 SUPPORTED

Broad tape technology compatibility



UP TO 400 MB/s DATA TRANSFER

High-speed performance for faster backups and restores



BUILT FOR CYBER RESILIENCE

Physical air-gap protection for long-term data retention and ransomware defense



KEY BENEFITS



ENTERPRISE SCALABILITY

Scale from 6U to 48U and grow up to 1,115 slots and 24 full-height drives to meet your evolving data needs.



MODULAR ARCHITECTURE

Flexible modular design supports 1 to 6 expansion modules with drive and cartridge expansion options.



HIGH DRIVE DENSITY

Support up to 24 full-height drives per library for maximum performance and throughput.



MASSIVE CAPACITY

Up to 33.45 PB native / 83.53 PB compressed (LTO-10) capacity in a single 48U library.



HIGH-PERFORMANCE ROBOTICS

Reliable robotic system with 2,000,000 MSBF for continuous operation and high availability.



CYBER RESILIENCE & AIR-GAP

Physical air-gap design with offline partition support for enhanced protection against cyber threats.



NO ADDITIONAL LICENSE

All features included.

ALL SLOTS USABLE

Use every slot without additional license.

DUAL FC PER DRIVE

Dual Fibre Channel connectivity per drive.

NO HIDDEN COST

Transparent, predictable, no surprise costs.

OFFLINE PARTITION

Logical isolation for stronger air-gapped protection.



ORION MC6 – Built to **Archive**.
Designed to **Scale**. Ready to **Protect**.



For more information, please visit
www.ltzero.id

ORION MC6

MODULAR ARCHITECTURE & CAPACITY

MODULAR BY DESIGN. BUILT TO SCALE.

ORION MC6 is built with a flexible modular architecture that grows with your data. Start with a 6U base module and scale up to a full 48U rack to meet your capacity and performance requirements.



6U
BASE
MODULE

6U BASE MODULE WITH ROBOT

- 121 Tape Slot Magazines
- 1x Import/Export Module with 7 Tapes
- Up to 3 LTO-9 / 10 FH Drives
- 128 Slots Total





EXPANSION
MODULES

DRIVE EXPANSION MODULE

- 121 – 132 Tape Slot Magazines
- 1x Import/Export Module with 7 Tapes (optional)
- Up to 3 LTO-9 / 10 FH Drives
- 128 / 132 Slots Total





CARTRIDGE
EXPANSION
MODULE

CARTRIDGE EXPANSION MODULE

- 12 x 11 Tape Slot Magazines
- 1x Fixed Cartridge Module with 9 Tapes
- Up to 3 LTO-9 / 10 FH Drives
- 141 Slots Total



SCALE FROM 6U TO 48U

START SMALL
6U BASE MODULE



SCALE BIG
UP TO 48U RACK



48U



UP TO
1,115
STORAGE SLOTS



UP TO
24
LTO-9 FH DRIVES

MAXIMUM CAPACITY

Massive capacity for long-term retention and cost-effective data protection.

TAPE GENERATION	 NATIVE CAPACITY (PER FULL 48U LIBRARY)	 COMPRESSED CAPACITY (2.5:1) (PER FULL 48U LIBRARY)	 MAX CONFIGURATION
LTO-10	33.45 PB	83.53 PB	• Up to 1,115 Slots • Up to 24 LTO-9 FH Drives
LTO-9	20.07 PB	50.18 PB	• Up to 1,115 Slots • Up to 24 LTO-9 FH Drives
LTO-8	13.38 PB	50.18 PB	• Up to 1,115 Slots • Up to 24 LTO-9 FH Drives



ENTERPRISE SCALE
Up to 48U rack with 1,115 slots and 24 full-height drives.



MODULAR FLEXIBILITY
Choose from drive or cartridge expansion modules to scale on demand.



HIGH DENSITY STORAGE
Best-in-class density for maximum capacity in a compact footprint.



LONG-TERM RETENTION
Ideal for archive, compliance, and disaster recovery.

ORION MC6

TECHNICAL SPECIFICATIONS

	SPECIFICATION	DETAILS		
 RELIABILITY	Robotic MSBF	2,000,000 Swaps		
	MTTR	10 min + Library Initialization		
	Power	2nd Power Supply for redundancy		
	Front Operator Panel	3.5" monochrome display with button panel		
	Ethernet	Redundant 100/1000 Mbit		
	REST API	Supported		
	Remote Management Interface	Remote Management WEB GUI (optional)		
 FIRMWARE & KEY FEATURES	System Firmware	Linux software based		
	Key Features	Secure Boot, REST API, Logical Partitions, User Handling, SSL Support, Network Configuration/Management, Tape Drive Configuration, KMIP Encryption, Backup / Restore of Configuration, SW Feature Licenses, System Logs, Library Tests, Media ID Check, Multi-Factor Authentication, IPv6		
 ENVIRONMENTAL	Dry-Bulb Temperature (LTO-8)	RECOMMENDED 16 to 25 °C (61 to 77 °F)	ALLOWABLE 16 to 25 °C (61 to 95 °F)	SHIPPING -23 to 49 °C (-9 to 120 °F)
	Dry-Bulb Temperature (LTO-9 / LTO-10)	15 to 25 °C (59 to 77 °F)	15 to 35 °C (59 to 95 °F)	-23 to 49 °C (-9 to 120 °F)
	Relative Humidity	20 to 50% (non-condensing)	20 to 80% (non-condensing)	10 to 80% (non-condensing)
	Power Supply Quantity	2N Redundant Power in Base Module and Expansion Modules with Drives		
	Input Voltage	100–240 VAC (50–60 Hz)		
	Power Consumption	300W / Gold 80 Plus Certified		
	External Power	Option for Power from external customer power supply		
	Safety	CB Report IEC 62368 / CB Test Certificate 62368 (3/4 edition) / NRTL USA/CAN Nemko		
	Regulatory	CE DoC EN / NRTL (Nemko) / FCC / China RoHS mark		
 RACK PHYSICAL DIMENSIONS	Width	600 mm (23.6")		
	Depth	1200 mm (47.2")		
	Height	2230 mm (87.8")		
	Weight (empty rack)	1000 kg (2205 lbs)		

SUPPORTED TAPE TECHNOLOGIES



LTO-8



LTO-9



LTO-10

Full support for LTO-8, LTO-9 and LTO-10 Tape Drives



ABOUT LT ZERO

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.



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