

ULTRIUM 7  
LTO

ULTRIUM 8  
LTO

ULTRIUM 9  
LTO

NANOPURE™



# MagStor®

DATA SHEET

## LRU THUNDERBOLT RAID



**MagStor presents the World's first Thunderbolt 3 fully integrated portable LTO RAID Unit (LRU) multi-tier storage solution**

Record video to SSD at the highest speeds possible, and then archive to LTO when convenient.

### FEATURES AND BENEFITS

- MagStor's patented Thunderbolt-3 to LTO design with SSD RAID.
- Hardware based RAID using a single TB3 interface with previously unattainable ingest speeds to LTO
- Supports up to 6 SATA SSD Drives with RAID levels 0,1,3,5,6,10 (add your own drives, or choose a preconfigured model)
- Dual Core ARM A15 1.6GHz processor with RAID On Chip
- 8GB DDR4-2666 cache memory with ECC protection
- Broad operating support including macOS, Windows, Linux, FreeBSD and VMware
- Ships with Hedge Canister LTF5 Software, and supports other leading archiving and backup software
- Compatible with NanoPure Media™
- 3 year parts and labor RTD warranty

If you're a Digital Imaging Technician or Content Creator looking for a high performance, easy-to-use storage solution that can transfer raw footage or completed projects onto LTO media as quickly as possible, then MagStor's new Thunderbolt 3 LTO RAID Unit (LRU) has got you covered.

**Apple™ Certified**  **Intel™ Certified**

**Apple™ Silicon M1 Compatible**

Today's digital video formats generate an incredible amount of data - just one hour of raw 4K footage can require up to 1.5TB of storage. As a result, downloading content from memory cards can take a long time, and having a high-performance solution is critical. LRU units support up to 6 SATA SSD Drives with hardware-controlled RAID, enabling blazing fast offloading of video from memory cards at up to 2400 MB/s. A choice of RAID modes lets users prioritize performance, data redundancy, or a balance of both. All the major production studios rely on nothing less than RAID 5 or 10, but mostly recommend RAID 6 to prevent content loss in the event of a drive failure.

### ABOUT MAGSTOR®

MagStor® Is a recognized leader in tape backup solutions to enterprise and M&E users globally. Since 2006, operating as our parent company Magnext, we are the ONLY tape hardware manufacturer and service provider solely focused on the needs of the tape hardware market. Our investments in engineering include our innovative NanoPure Media™ system and patented Thunderbolt 3™ equipped tape drives and libraries. All with a focus on improving the usability of tape hardware for today's M&E and Enterprise users.

In terms of archiving capabilities, LRU configurations are available with a choice of LTO-7, LTO-8 and LTO-9 half-height drives. LTO tape, for long a mainstay in corporate data centers, has become the de facto archival standard in the Media and Entertainment industry. The latest LTO-9 version offers 18TB of native cartridge capacity and read/write speeds of up to 300MB/s for high speed archiving of video content.

LRU also supports the Linear Tape File System (LTF5), which mounts the tape drive in the same way as a disk drive, enabling simple drag-and-drop access to the tape cartridge, and providing a standard means of interchange across the post-production ecosystem. All LRU configurations ship with a free license for Hedge Canister LTF5 archiving software, as well as supporting other popular backup and archive utilities for macOS and Windows.

#### Software Compatibility Highlights

- Archiware P5
- YoYotta LTF5
- Hedge Canister (included) And many others

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### RAID SPECIFICATIONS

- Dual Core ARM A15 1.6GHz processor with RAID On Chip
- 8GB DDR4-2666 cache memory with ECC protection and optional cache protection module
- Supports up to 6 SATA I, II, and III, 2.5" SSD Drives 10mm height (Drive sleds included)
- Up to 6 SATA SSD drive support with configurable RAID levels 0,1,3,5,6, and 10
- Individual disk pass through for non-RAID configuration

### COMPATIBILITY

	LTO9 Media	LTO8 Media	LTO7 Media	LTO6 Media	LTO5 Media
LTO9 Drive	●	●	✗	✗	✗
LTO8 Drive	✗	●	●	✗	✗
LTO7 Drive	✗	✗	●	●	R

✗ Incompatible   ● Read/Write   R Read Only

### PHYSICAL DRIVE

Model #	TRB3-LRUX
Dimensions (LxWxH)	13.4 x 5.8 x 6.8 in.
Weight	13 lbs. (w/o SSD drives)

### POWER CONSUMPTION

	Idle (watts)	Typical	Peak
LRU 9/8 (w/o SSD drives)	23.0	42	54
LRU 7 (w/o SSD Drives)	33.1	44	76.5

Voltage: +5 +12

### ENVIRONMENTAL TOLERANCE

Activity	Operating	Shipping & Storage
Temperature	10 - 38°C (50 - 100°F)	-40 to 60°C (-40 to 140°F)
Relative Humidity	20 - 80%	10 - 90%

### WARRANTY

3 years  
(optional 5 years)

### OS COMPATIBILITY

MAC OS 10.11+  
Windows 10

### DATA BUFFER SIZE

LTO9 : 1 GB  
LTO8 : 1 GB  
LTO7 : 1 GB

### MAGSTOR CONNECTION OPTIONS



### LRU PERFORMANCE

RAID 0 up to 2400 MB/s write and 2000 MB/s read \*  
RAID 5 up to 1700 MB/s write and 2000 MB/s read \*  
\* 6X Samsung EVO 870 SSD

### DRIVE SPECIFICATIONS

Drive Generation	Read/Write Speed	Buffer Size
LTO9	300 MB/s	1 GB
LTO8	300 MB/s	1 GB
LTO7	300 MB/s	1 GB

### MEDIA CAPACITY

Media Generation	Native Capacity
LTO9	18 TB
LTO8	12 TB
LTO7	6 TB
LTO6	2.5 TB
LTO5	1.5TB

### TAPE CARTRIDGE

Archive Storage	Dimensions (LxWxH)	Durability
30 years	4 x 4.15 x .85 in.	20,000 load/unload cycle



### CONNECTION OPTIONS

Thunderbolt 3™  
Thunderbolt 2™ (with adapter)  
Thunderbolt 1™ (with adapter)