

# The Tandberg Data Magnum 448 Tape Library



- Scales “on demand” with upgrade drives from a 1x48 up to a 4x48 library, with one to four half-high (HH)LTO-2 drives or one to two full-height (FH) LTO-3 or LTO-4 drives.
- Drive upgradeable from LTO-2 SCSI to LTO-3 or LTO-4 SCSI or native fibre channel
- Includes industry-leading standard features such as a rack kit, Ethernet with remote management, and a bar code reader

The Tandberg Data Magnum 448 Tape Library is redefining the term tape library by offering the most scalable, affordable and user-friendly tape library mid-sized businesses to low end enterprise and departmental users can buy. It easily scales ‘on demand’ from a 1x48 to a 4x48 tape library, with a choice of up to four half-high LTO-2 drives or up to two full-high LTO-3 or LTO-4 drives. It offers up to 76.8 TB\* of compressed data storage — all in

a space-saving 4U form factor. It offers the reliability of Tandberg Data Robotics, and a rich list of standard features. The 448 offers unparalleled ‘pay-as-you-go’ scalability — Performance & Capacity on Demand — allowing SMB and departmental users the flexibility to easily adjust storage speed and capacity as desired with low-priced, user-installable LTO tape drives in various generations and interfaces.

## Features

- Supports up to four Ultrium™ SCSI HH LTO-2 drives, or one to two SCSI FH LTO-3 or LTO-4 drives
- Base unit is kitted with four 12-cartridge magazines that includes two Import/Export (I/E) ports
- Delivers up to 9.6 to 76.8 TB\* of capacity at a transfer rate of up to over 1.7 TB/hr\*
- Multiple drives offer increased data rates for backup and restoration jobs, while also eliminating single drive automation as a potential single point of failure.
- Warranty is the industry leading standard 1-year warranty with 5x9 next business day on site service (OSS). Optional 2 or 3-year warranties and OSS service extension is also available at very affordable pricing
- Uses an intuitive, user-friendly LCD interface to guide you through configuration, status, diagnostic, and help functions
- Featuring Automation/Drive Interface (ADI) that reduces cost, increases automation reliability to ensure greater end user simplicity
- Capacity on demand Field Upgradeable from LTO-2 to LTO-3 or LTO-4 SCSI by simply swapping the LTO-2 drive for an LTO-3 or LTO-4 SCSI drive, even when installed in a rack
- LTO-2, LTO-3, and LTO-4 SCSI is Field Upgradeable to LTO-3 or LTO-4 FC. Performance on demand allows you to migrate from LTO-2 to LTO-3 or LTO-4. Easily upgrades from SCSI to native FC while still in the rack by exchanging SCSI drives for FC drives.

## Automation Robotics

Tandberg Data’s award-winning, patented robotics, is built on its 25-year legacy of superior engineering, quality and reliability. Tandberg Data engineers specify conservative electronics and ultra-reliable mechanical components that undergo intensive testing to ensure data security, accessibility and retrievability. Automation systems are designed to share electronics and processor architecture with drives, adding to reliability and economies of scale. Similarly, Tandberg Data’s self-calibrating, self-correcting firmware mirrors the simple, clean mechanical engineering offered through Tandberg Robotics.

## WORM

For greater data security when storing data to tape, a Write Once, Read Many (WORM) storage method may be used to store data in a non-erasable, non-rewritable format. This is intended to assist in supporting the long-term retention of data and to meet the requirements of many regulatory bodies worldwide. This product’s LTO-3 and LTO-4 tape drive is WORM-ready. NOTE: Because standard read/write LTO tape cartridges are incompatible with the WORM feature, a specially formatted WORM tape cartridge is required. The 400GB and 800GB WORM cartridge is identified by its unique color, and includes advanced security features designed to prevent the alteration or deletion of stored data.

\*Compressed. Compressed specifications assume a 2:1 compression ratio. Compression capacity and throughput will vary dependent upon type of data and system configuration. All specifications are subject to change without notice.

# Magnum 448 LTO Tape Library

## All configurations of the Exabyte Magnum 448 library will include:

- One tape drive installed, either Ultrium™ LTO-2, LTO-3, or LTO-4, with either a SCSI or native FC interface
- Four 12-slot magazines with 2 I/E ports
- One rack mount kit
- One barcode scanner
- 60 piece barcode label set, 58 data and 2 cleaning
- One Ethernet port with remote management
- One 10-foot shielded Ethernet cable
- One 2-meter 68-pin HD to HD LVD SCSI cable. Not included in native FC configuration
- One 68-pin HD LVD SCSI cable & terminator. Not included in native FC configuration
- US and International power cords
- A Quick Start Guide

## Media Compatibility

The Magnum 448 Library is compatible with LTO Ultrium™ data cartridges. Library can accommodate up to 48 cartridges.

## Tape Drive Integration

The Magnum 448 may be ordered with one HH LTO-2, FH LTO-3 or LTO-4 drive and can be upgraded to hold up to four HH LTO-2 drives or two FH LTO-3 or LTO-4 drives to more than double its speed and offer drive redundancy. Adding additional LTO tape drives can be completed while the library is still in its rack. Upgrading from a HH LTO-2 drive to a HH or FH LTO-3 SCSI or native FC drive doubles drive capacity and can more than triple the drive speed of HH LTO-2. LTO-2 automation may be upgraded to LTO-4 SCSI or FC providing four times the capacity and more than triple the drive speed of HH LTO-2.

## Software Compatibility

For the most recent software compatibility information, please visit the Products section on the Tandberg Data website at [www.exabyte.com](http://www.exabyte.com).

### Magnum 448 Configurations

Magnum 448 Library, LVD, Kitted (LTO-4)	4400-LTO
Magnum 448 Library, FC, Kitted (LTO-4)	4450-LTO
Magnum 448 Library, LVD, Kitted (LTO-3)	270062-100
Magnum 448 Library, FC, Kitted (LTO-3)	270062-150
Magnum 448 Library, LVD, Kitted (LTO-2)	270062-200

### Tandberg Data Part #

### Magnum 448 Options

LTO-4 LVD upgrade drive	900001
LTO-4 Native FC upgrade drive	900005
LTO-3 LVD add-on drive	1014767
LTO-3 FC add-on drive	1014769
LTO-2 LVD add-on drive	1014771
12-Slot left hand (LH) upgrade magazine †	1014765
12-Slot right hand (RH) magazine with I/E port †	1015310

### Tandberg Data Part #

### Warranty Uplifts††

2yr Premium On-site Service Warranty Extension	1015875
Additional upgrades available based on geographical location	

### Tandberg Data Part #

## Magnum 448 LTO Tape Library Technical Specifications

### Capacity Native/Compressed

With LTO-2: 9.6TB/19.2TB
With LTO-3: 19.2TB/38.4TB
With LTO-4: 38.4 TB/76.8TB

### Transfer Rate Native/Compressed

With LTO-2: 86GB/691GB/hr
With LTO-3: 288GB/1152GB/hr
With LTO-4: 1728GB/hr/3456GB/hr

### Dimensions (LxWxD)

29.0 x 17.57 x 6.95 inches
77.54 x 44.63 x 17.65 centimeters

### Shipping package:

35.95 x 23.2 x 19.8 inches
91.31 x 58.93 x 50.29 centimeters

### Rack height:

4U

### Weight

69.5 lbs. (31.5 kg)
Shipping weight: 118.6 lbs. (53.8 kg)

### Agency Certifications

CE, UL, CUL, FCC-A, VCCI,
C-TICK, GS, IEC-60950-1,
WEEE, ROHS

### Warranty

1-year warranty with 5x9 next business day on site service (OSS).\*\*

### Interface

LVD SCSI
Native Fibre Channel

The Magnum 448 Library is part of an entire family of LTO automation products. Visit our website at [www.exabyte.com](http://www.exabyte.com) to see how you can benefit from the Tandberg Data automation advantage.

### Installation Services

Take advantage of Tandberg Data's technical expertise with Magnum 448 Professional Installation Service. For a nominal fee, we will do the installation and have your Magnum 448 Library up and running in no time. Magnum 448's professional installation will be performed by a Tandberg Data engineer.

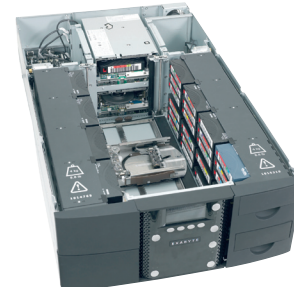
Professional installation includes:

- Unpacking of the Magnum 448 Library and associated accessories
- Installation of add-on drives and accessories
- Verification that all drives are recognized on the bus and successfully addressed
- Troubleshooting and resolving hardware issues that may arise during installation
- "Best effort" integration in identifying/overcoming library-related interoperability issues.

Contact Tandberg Data at [solutions@exabyte.com](mailto:solutions@exabyte.com) for more information on available services or to arrange for your professional installation.

\*Compressed specifications assume a 2:1 compression ratio. Compression capacity and throughput will vary dependent upon type of data and system configuration. All specifications are subject to change without notice. † Duplicate magazines only \*\* United States of America only. †† May not be available in certain geographical locations.

\*Native/compressed (assumes a 2:1 compression ratio). Compression, capacity and throughput will vary dependent upon type of data and system configuration. ©2007 Tandberg Data. Exabyte and VXA are registered trademarks of Tandberg Data. All other trademarks are the property of their respective owners.



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1-800-774-7172

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[www.tandbergdata.com/us/support](http://www.tandbergdata.com/us/support)

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