

# LTO Tape Media

## What could be more important than protecting your data?

Tandberg Data LTO tape drive, automation and media products are designed for small and medium-sized businesses, to deliver the best combination of performance, durability, reliability and value for the money. Tandberg Data LTO tape drives are optimised for use with Tandberg Data LTO media to deliver exceptional performance and reliability.

The most important factor about performing backups is that you can restore data at a later date. The success of any restore operation is dependent upon many factors but mainly the quality of the media and the media handling procedures in use. Tandberg Data LTO media is subject to stringent quality controls to ensure maximum performance, reliability and compatibility with other vendor LTO tape drives.

Tandberg Data offers a selection of media products and services to simplify data protection and compliance requirements, including custom and non-custom barcode labeling services and library media packs for easy handling and safe transportation of data off site.

Tandberg Data custom barcode-labeled data cartridges allow customers to specify the exact barcode sequence and color printed on each label. Custom barcode-labeled orders are built to order with a lead time of 1 week. Tandberg Data non-custom barcode labeled data cartridges contain a random sequence allowing labeled data cartridges to be shipped very quickly because no customisation is required.

### Media Care and Handling

To achieve maximum tape media life, users must ensure that media is operated and stored as per the environmental specification. Tape media should be kept away from strong magnetic fields to avoid the risk of data loss. Operating a tape drive within a dirty or dusty environment may affect reliability and could reduce the tape drive and media life. The life of each tape media depends on the way it is utilized and stored, as such we recommend that customers replace daily backup tapes every 12 months.



### Key Benefits

- ▬ **High Capacity**  
 Up to 15TB\* of data on a single cartridge
- ▬ **Leading Performance**  
 Up to 2.7 TB/hr\* reducing backup and restore times
- ▬ **Reliability**  
 Stringent testing ensures maximum reliability
- ▬ **Flexibility**  
 A choice of media products and services including barcode labeling and library packs
- ▬ **Lowest Storage Cost**  
 LTO media delivers the lowest storage cost/GB of any media
- ▬ **Archiving**  
 LTO media archival life of 30 years
- ▬ **Warranty**  
 Limited lifetime warranty (typically 30 years)

\* Assumes compression ratio of 2:1 on LTO-3/4/5 & 2.5:1 on LTO-6/7





## Specifications

### LTO Media Compatibility

TAPE FORMAT	LTO-3	LTO-4	LTO-5	LTO-6	LTO-7
LTO-2	R/W	R			
LTO-3	R/W	R/W	R		
LTO-4		R/W	R/W	R	
LTO-5			R/W	R/W	R
LTO-6				R/W	R/W
LTO-7					R/W

### Basic Specifications

Storage Capacity	400GB / 800GB*	800GB / 1600GB*	1.5TB / 3.0TB*	2.5TB / 6.25TB*	6TB / 15TB*
Transfer Rate	Up to 120 MB/s*	Up to 240 MB/s*	Up to 280 MB/s*	Up to 400MB/s*	Up to 750MB/s*
Number of Tracks	704	896	1280	2176	3584
Cartridge Memory	4KB	8KB	8KB	16KB	16KB
HH Drive Data Buffer	128MB	128MB	256MB	512MB	1024MB

### Magnetic Properties

Magnetic Particle	Super Finavinx (Metal)	Super Finavinx (Metal)	Super Finavinx (Metal)	Super Finavinx (Metal)	Barium Ferrite
Linear Recording Density	9.64kbpmm	12.72kbpmm	14.68kbpmm	15.14kbpmm	19.09kbpmm

### Dimensions

Cartridge Dimensions	102.0 × 105.4 × 21.5mm	102.0 × 105.4 × 21.5mm	102.0 × 105.4 × 21.5mm	102.0 × 105.4 × 21.5mm	102.0 × 105.4 × 21.5mm
Tape Width	12.65mm	12.65mm	12.65mm	12.65mm	12.65mm
Tape Thickness	8µm	6.6µm	6.4µm	6.4µm	5.6µm
Tape Length	680m	820m	846m	846m	960m

### Operating Environment

Temperature	10° - 45°C	10° - 45°C	10° - 45°C	10° - 45°C	10° - 45°C
Humidity	10 - 80%**	10 - 80%**	10 - 80%**	10 - 80%**	10 - 80%**
Maximum Wet Bulb Temp.	26°C	26°C	26°C	26°C	26°C

### Storage Environment

Temperature (Short-term)	16° - 32°C	16° - 35°C	16° - 35°C	16° - 35°C	16° - 35°C
Temperature (Archive)	16° - 32°C	16° - 25°C	16° - 25°C	16° - 25°C	16° - 25°C
Humidity (Short-term)	20 - 80%**	20 - 80%**	20 - 80%**	20 - 80%**	20 - 80%**
Humidity (Archive)	20 - 80%**	20 - 50%**	20 - 50%**	20 - 50%**	20 - 50%**

### Media Life

Durability (Nominal)	1,000,000 passes
Archival-Life	30 years
Warranty	Limited lifetime warranty (typically 30 years)

\* Assumes compression ratio of 2:1 on LTO-3/4/5 & 2.5:1 on LTO-6/7 \*\*Without dewing, dimensional specifications are nominal

## Sales Offices

Sales and support for Sphere 3D products and solutions are available in over 90 countries. Contact us today at [sales@sphere3d.com](mailto:sales@sphere3d.com). For a full list of Sphere 3D addresses and phone numbers, please see our website at: <http://sphere3d.com/contact-us/>.

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