

## 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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