# Tandberg Data LTO Half Height Drive

Leading Performance and Capacity

# Tandberg Data LTO tape drives offer the best performance, reliability and value for small and medium-sized business users.

Tape forms the last line of defense in data protection for many organizations, but most importantly tape is the only long-term solution for managing data growth and reducing data storage costs. LTO tape technology is the industry standard for tape storage. Its eight-generation roadmap ensures that data written today can be restored tomorrow.

LTO tape technology is the most economical way for businesses to protect their ever expanding amount of digital data. Significant cost benefits can be achieved by deploying LTO tape technology due to its high capacities, small footprint and low power and cooling requirements. Tandberg Data LTO tape drives are available with compressed capacities up to 6.25TB\* and performance up to 1.4 TB/hr\* reducing backup and restore times to a minimum.

Tandberg Data LTO tape drives incorporate dynamic variable tape speed matching, allowing drives to constantly adapt speed to match the host/server data rate. This virtually eliminates "backhitching", improving media life and reducing wear and tear on the tape drives. Tandberg Data provides a full portfolio of LTO tape products including internal, external, rackmount and automation solutions.

Tandberg Data LTO-5 and LTO-6 tape drives support LTFS (Linear Tape File System). LTFS allows LTO-5 and LTO-6 tape drives to connect and operate just like a large hard disk. Users can drag and drop files to and from tape, search for files on tape and even play videos directly from tape. LTFS removes the need for expensive software and greatly simplifies archiving tasks.

Tandberg Data's extensive product testing program ensures that LTO drives are fully compatible with a wide range of servers, operating systems and backup software. Protect your business data for tomorrow with a Tandberg Data tape solution today.

# **Key Benefits**

#### High Capacity

Up to 6.25TB\* of data on a single cartridge

## Leading Performance

Up to 1.4 TB/hr\* reducing backup and restore times

#### Lower Storage Costs

LTO offers the lowest storage cost of any medium

#### Archiving

30-year archival life

# = Ease of Use

LTFS support for Windows, Linux and MacOS

## Security

AES 256-bit hardware encryption (LTO-4/5/6)

#### Minimize Downtime

3-year Advance Replacement Service Warranty\*\*

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

\*\* Availability dependent on location

120 MB/s* 8 /s / 40–120 MB/s* 3  15 77 SCSI US (internal) 66 (external) 67 Internal) S Internal S I	800GB / 1.6TB*  80 MB/s / 160 MB/s*  33-80 MB/s / 66-160 MB/s*  128MB  70 sec.  Ultra 320 SCSI SAS 3Gb FC 4Gb  68-pin HD (internal) 68-pin HD (external) SFF8482 (internal) SFF8088 (external)  1KB (2:1) AES 256-bit N/A LTO Ultrium 4, LTO Ultrium 3, LTO Ultrium 2 (read only)  250,000 hours @ 100% duty cycle 60,000 tape running hours 1 x 10 <sup>(-17)</sup> bits	1.5TB / 3.0TB*  140 MB/s / 280 MB/s*  47–140 MB/s / 94–280 MB/s*  256MB  70 sec.  SAS 6Gb FC 8Gb  SFF8482 (internal) SFF8088 (external) LC-Port (internal) LC Port (external) 1KB (2:1) AES 256-bit Yes LTO Ultrium 5, LTO Ultrium 4, LTO Ultrium 3 (read only)  250,000 hours @ 100% duty cycle 60,000 tape running hours	2.5TB / 6.25TB*  160 MB/s / 400 MB/s*  54–160 MB/s / 135–400 MB/s  512MB  50 sec.  SAS 6Gb FC 8Gb  SFF8482 (internal) SFF8088 (external) LC-Port (internal)  16KB (2.5:1) AES 256-bit Yes LTO Ultrium 6, LTO Ultrium 5 LTO Ultrium 4 (read only)  250,000 hours @ 100% duty cycle 60,000 tape running hours
S   40-120 MB/s*   3	33–80 MB/s / 66–160 MB/s* 128MB 70 sec. Ultra 320 SCSI SAS 3Gb FC 4Gb 68-pin HD (internal) 68-pin HD (external) SFF8482 (internal) SFF8088 (external)  1KB (2:1) AES 256-bit N/A LTO Ultrium 4, LTO Ultrium 3, LTO Ultrium 2 (read only)  250,000 hours @ 100% duty cycle 60,000 tape running hours	47–140 MB/s / 94–280 MB/s* 256MB 70 sec. SAS 6Gb FC 8Gb  SFF8482 (internal) SFF8088 (external) LC-Port (internal) LC Port (external) 1KB (2:1) AES 256-bit Yes LTO Ultrium 5, LTO Ultrium 4, LTO Ultrium 3 (read only)	54–160 MB/s / 135–400 MB/s 512MB 50 sec. SAS 6Gb FC 8Gb  SFF8482 (internal) SFF8088 (external) LC-Port (internal)  16KB (2.5:1) AES 256-bit Yes LTO Ultrium 6, LTO Ultrium 5 LTO Ultrium 4 (read only)  250,000 hours @ 100% duty cycle
Company of the street of the s	128MB 70 sec. Ultra 320 SCSI SAS 3Gb FC 4Gb 68-pin HD (internal) 68-pin HD (external) SFF8482 (internal) SFF8088 (external)  1KB (2:1) AES 256-bit N/A LTO Ultrium 4, LTO Ultrium 3, LTO Ultrium 2 (read only)  250,000 hours @ 100% duty cycle 60,000 tape running hours	256MB 70 sec. SAS 6Gb FC 8Gb  SFF8482 (internal) SFF8088 (external) LC-Port (internal) LC Port (external) 1KB (2:1) AES 256-bit Yes LTO Ultrium 5, LTO Ultrium 4, LTO Ultrium 3 (read only)	512MB 50 sec. SAS 6Gb FC 8Gb  SFF8482 (internal) SFF8088 (external) LC-Port (internal)  16KB (2.5:1) AES 256-bit Yes LTO Ultrium 6, LTO Ultrium 5 LTO Ultrium 4 (read only)  250,000 hours @ 100% duty cycle
GCSI  (internal) (external) (external) S  nternal)  1  A  M  m 3, LTO Ultrium 2, m 1 (read only)  urs @ 100% duty c e running hours 6	70 sec.  Ultra 320 SCSI SAS 3Gb FC 4Gb  68-pin HD (internal) 68-pin HD (external) SFF8482 (internal) SFF8088 (external)  IKB (2:1) AES 256-bit N/A LTO Ultrium 4, LTO Ultrium 3, LTO Ultrium 2 (read only)  250,000 hours @ 100% duty cycle 60,000 tape running hours	70 sec.  SAS 6Gb FC 8Gb  SFF8482 (internal) SFF8088 (external) LC-Port (internal) LC Port (external) 1KB (2:1) AES 256-bit Yes LTO Ultrium 5, LTO Ultrium 4, LTO Ultrium 3 (read only)  250,000 hours @ 100% duty cycle	50 sec.  SAS 6Gb FC 8Gb  SFF8482 (internal) SFF8088 (external) LC-Port (internal)  16KB (2.5:1) AES 256-bit Yes LTO Ultrium 6, LTO Ultrium 5 LTO Ultrium 4 (read only)  250,000 hours @ 100% duty cycle
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c e running hours 6	cycle 60,000 tape running hours	cycle	cycle
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		1 x 10 <sup>(-17)</sup> bits	1 x 10 <sup>(-17)</sup> bits
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C (-40° – 151°F)	-40° – 66°C (-40° – 151°F)	-40° – 66°C (-40° – 151°F)	-40° – 66°C (-40° – 151°F)
non-condensing) 2	20 – 80% (non-condensing)	20 – 80% (non-condensing)	20 – 80% (non-condensing)
non-condensing) 1	10 – 95% (non-condensing)	10 – 95% (non-condensing)	10 – 95% (non-condensing)
1	13 W	7 W	4 W
2	20 W	20 W	29 W
3	33 W	33 W	39 W
A, 12V, 0.7A 5	5V DC, 2.5A, 12 V, 0.7A	5V DC, 2.5A, 12 V, 0.7A	5V DC, 3.7A, 12 V, 0.9A
			formity, FCC 47 CFR Parts 15,
Ivance Replacement Se	Service Warranty**		
1	A, 12V, 0.7A fication to C22.2, No. 60 CI. C-TICK, RRL, BSMI, dvance Replacement S	fication to C22.2, No. 60950 (cCSAus), TUV EN60950 (I CI. C-TICK, RRL, BSMI, GOSH CB Certificate and Repo dvance Replacement Service Warranty**	20 W 20 W 33 W 33 W 6A, 12V, 0.7A 5V DC, 2.5A, 12 V, 0.7A 5V DC, 2.5A, 12 V, 0.7A fication to C22.2, No. 60950 (cCSAus), TUV EN60950 (IEC 60950), CE Declaration of ConCI. C-TICK, RRL, BSMI, GOSH CB Certificate and Report (IEC 60950)

#### **About Tandberg Data**

Tandberg Data is a leading global supplier of data protection solutions for small and medium-sized businesses. The company's wide range of cost-effective storage products and services provides customers with best-in-class tape, disk, removable disk and software solutions for backup, archiving and disaster recovery. These solutions are marketed through a global channel of qualified resellers, distributors and major server OEMs. An extensive service and support network supports all Tandberg Data products worldwide.

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