

# Tandberg Data LTO Half Height Drive

## Leading Performance and Capacity

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

LTO technology makes it easy for users to standardize on a tape technology that meets today's data capacity requirements and can cope with future demands. LTO Ultrium is the industry standard and market leader. The eight-generation roadmap ensures that data written today can be restored in later years.

The Tandberg Data family of LTO tape drives is the first choice for data protection for many small and medium-sized businesses with midrange and network storage environments. Tandberg Data LTO HH tape drives are available with a range of capacities, from 400GB\*, 800GB\*, 1.6TB\* or 3TB\*.

Tandberg Data LTO HH tape drives offer industry leading performance up to 1TB/hr\* (280 MB/sec\* or 16.8GB/min\*), reducing backup and restore times to a minimum. Tandberg Data provides a range of LTO HH models including internal, external and rackmount configurations, with either SCSI, SAS or FC connectivity.

Tandberg Data LTO HH drives incorporate dynamic variable tape speed matching, allowing drives to constantly adapt speed to match the host/server data rate. This virtually eliminates "backhitching" or "shoe-shining," improving media life and reliability of backup and restore operations while reducing wear and tear on the tape drive. The advance air cooling design combined with low power consumption reduces IT costs and your carbon footprint.

The Tandberg Data LTO-5 HH drive includes a partitioning feature, which allows the tape drive to operate just like a large hard disk. The partitioning feature will greatly simplify archiving and should be of great interest to the video and broadcasting market.

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 solution today.



## Key Benefits

- High Capacity**  
 Up to 3TB\* of data on a single cartridge
- Leading Performance**  
 Up to 1TB/hr\* reducing backup and restore times
- Lower Storage Costs**  
 LTO offers the lowest storage cost of any medium
- Archiving**  
 LTO provides safe and secure storage of data for up to 30 years
- Reliability**  
 MTBF of 250,000 hrs at 100% duty cycle
- Security**  
 Protect your data with AES 256-bit Encryption (LTO-4 and 5 only)
- Minimize Downtime**  
 3-year warranty and 3-years Advanced Replacement Service\*\*

\* Assumes a 2:1 compression ratio

\*\* Availability dependent on location



Choose between 4 generations of LTO Half-Height drives for high capacity backup and archiving, with backward compatibility and the lowest power consumption in the industry.

**TANDBERG DATA**  
Securing your Information

## Specifications

	Tandberg Data LTO-2 HH	Tandberg Data LTO-3 HH	Tandberg Data LTO-4 HH	Tandberg Data LTO-5 HH
Capacity (native/compr.)	200GB / 400GB*	400GB / 800GB*	800GB / 1.6TB*	1.5TB / 3.0TB*
Transfer Rate (native/compr.)	24 MB/s / 48 MB/s*	60 MB/s / 120 MB/s*	80 MB/s / 160 MB/s*	140 MB/s / 280 MB/s*
Dynamic Speed Matching	0–24 MB/s / 0–40 MB/s*	20–60 MB/s / 40–120 MB/s*	33–80 MB/s / 66–160 MB/s*	47–140 MB/s / 94–280 MB/s*
Memory Buffer Size	64MB	128MB	128MB	256MB
Data Access Speed	64 sec.	70 sec.	70 sec.	70 sec.
Interface Type	Ultra 160 SCSI Wide, Serial Attached SCSI 3Gbps	Ultra 320 SCSI Wide, Serial Attached SCSI 3Gbps	Ultra 320 SCSI Wide, Serial Attached SCSI 6Gbps, Fibre Channel 4Gbps	Serial Attached SCSI 6Gbps, Fibre Channel 8Gb
Interface Connector SCSI	68-pin HD (internal) 68-pin HD (external)	68-pin HD (internal) 68-pin HD (external)	68-pin HD (internal) 68-pin HD (external)	N/A
Interface Connector SAS	SFF8482 (internal)	SFF8482 (internal) SFF8088 (external)	SFF8482 (internal) SFF8088 (external)	SFF8482 (internal) SFF8088 (external)
Interface Connector FC			LC-Port (internal)	LC-Port (internal) LC-Port (external)
Recording Format	LTO Ultrium 2, LTO Ultrium 1	LTO Ultrium 3, LTO Ultrium 2, LTO Ultrium 1 (read only)	LTO Ultrium 4, LTO Ultrium 3, LTO Ultrium 2 (read only)	LTO Ultrium 5, LTO Ultrium 4, LTO Ultrium 3 (read only)
<b>Reliability</b>				
MTBF Hours (100% duty cycle)	250,000 hours	250,000 hours	250,000 hours	250,000 hours
Head Life	60,000 tape running hours	60,000 tape running hours	60,000 tape running hours	60,000 tape running hours
<b>Environmental Specifications</b>				
Temperature (Operating)	10° – 40°C (50° – 104°F)	10° – 40°C (50° – 104°F)	10° – 40°C (50° – 104°F)	10° – 40°C (50° – 104°F)‡
Temperature (Non-operating)	-40° – 66°C (-40° – 151°F)	-40° – 66°C (-40° – 151°F)	-40° – 66°C (-40° – 151°F)	-40° – 66°C (-40° – 151°F)
Relative Humidity (Operating)	20 to 80% (non-condensing)	20 to 80% (non-condensing)	20 to 80% (non-condensing)	20 to 80% (non-condensing)
Relative Humidity (Non-operating)	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)
<b>Power Requirements</b>				
Idle	13 W	13 W	13 W	6.9 W
Typical	20 W	20 W	20 W	20 W
Maximum	33 W	33 W	33 W	33 W
Power Supply/ Required (int)	5V DC, 2.5A, 12V, 0.7A	5V DC, 2.5A, 12V, 0.7A	5V DC, 2.5A, 12V, 0.7A	5V DC, 2.5A, 12V, 0.7A
Certification	CSA Certification to C22.2, No. 60950 (cCSAus), TUV EN60950 (IEC 60950), CE Declaration of Conformity, FCC 47 CFR Parts 15, NOM, VCCI. C-TICK, RRL, BSMI, GOSH CB Certificate and Report (IEC 60950)			
Warranty	3-years Warranty and Advanced Replacement Service**			

\* Assumes a 2:1 compression ratio \*\* Availability dependent on location  
‡ The LTO-5 HH FC external tape drive should not be operated in an environment where the temperature is greater than 35°C (95°F).

## 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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