

## Tandberg LTO Half Height Drive

*Leading Performance and Capacity*

**LTO Ultrium is the only industry standard tape drive technology on the market today. The Ultrium LTO format has quickly become the market leader overtaking other proprietary technologies such as DLT and AIT.**

The availability of four generations of LTO tape drives simplifies the decision—it is the only option available for low cost requirements where capacity growth potential matches the escalating data growth rates that businesses are facing today.

Since its introduction, LTO has been known as the enterprise-class technology of choice for medium to large size businesses and in medium and large size libraries. Tandberg Data's half-height (HH) LTO brings enterprise-level performance to small and medium businesses at an affordable price. The Tandberg LTO-3 HH, LTO-2 HH and LTO-1HH feature an Automatic Variable Transfer Rate to match host transfer speeds, as well as a state-of-the art Ultra 160 SCSI interface, providing maximum data throughput and reduced backup and restore times. Tandberg Data's LTO drives are backed by more than 25 years of experience in linear tape technology research, design and manufacturing.

The Tandberg LTO half-height drives offer one of the industry's fastest transfer rates with high capacity to minimize backup times, its compact size, provides simple and easy integration into all servers and workstation. The LTO technology makes it easy for users to standardize on a tape technology that meets today's data capacity requirements and ensures futures growth potential. LTO's six-generation roadmap, with four generations available today makes it a clear choice for small to medium businesses.

# LTO



### Key Benefits

- Performance**  
 LTO drives are the fastest midrange drive in the industry with transfer speeds up to 432 GB/hr\*
- Low Total Cost of Ownership (TCO)**  
 Compatibility with previous generations of LTO media for investment protection and high capacity results in lower TCO and has the lowest power consumption of any brand of LTO tape product
- High Capacity**  
 With capacities up to 800GB native today, the LTO roadmap offers a six-generation migration path with capacities up to 3.2TB\*
- Reliability**  
 Rock-solid reliability and data integrity with MTBF of 250,000 hrs at 100% duty cycle
- Write Once, Read Many (WORM)**  
 WORM allows you to store data in a non-erasable, non-amendable format (LTO-3 only)
- Minimize Downtime**  
 3-year warranty and 3 years of Advanced Replacement Service\*\*



Choose between 3 generations of LTO Half-Height drives for high capacity backup and archiving, with backward compatibility and lowest power consumption in the industry

**TANBERG DATA**   
Securing your Information

## Specifications

	Tandberg LTO-1 HH	Tandberg LTO-2 HH	Tandberg LTO-3 HH
Technology	LTO Ultrium 1 Half Height	LTO Ultrium 2 Half Height	LTO Ultrium 3 Half Height
Capacity (native/compr.)	100GB / 200GB*	200GB / 400GB*	400GB / 800GB
Transfer Rate (native/compr.)	16MB/s / 32MB/s*	24MB/s / 48MB/s*	60MB/s / 120MB/s
Burst Transfer Rate	160MB/s	160MB/s	160MB/s
File Access Time	76 sec.	76 sec.	76 sec.
Memory Buffer Size	64MB	64MB	128MB
Data Compression	LTO-DC (enhanced version of ALDC), In-line hardware compression		In-line
Interface	HD LVD Ultra 160 SCSI		
Data Cartridge & Recording Format	LTO-1	LTO-2	LTO-3
Number of Tracks	384 data tracks	512 data tracks	704 data tracks
Tape Alert Compliant	Yes	Yes	Yes
Tape speed read / write	172ips	166ips	166ips
Wind / rewind both formats	200ips	200ips	166ips
Safety Features Embedded	Self test, error logging and Media Management Diagnostics, intelligent head cleaning brush		
Media Loading Mechanism	Smart Gripper		
Reliability	MTBF: 250,000 hours @ 100% duty cycle; Head Life: 30,000 tape running hours		
Hard Read Error Rate	1 x 10 <sup>-17</sup> bits		
Temperature	10C to 40C (41F to 104F) Operating; -30C to 60C (-22F to 104F) Non-operating. Max wet bulb: 10C/hr non-condensing		
Relative Humidity	20 to 80% Operating; 5% to 90% Non-operating		
Power dissipation (motor running)	18W typical	18W typical	13W typical
Power dissipation (motor idle)	9W sleep with cartridge	9W sleep with cartridge	6W sleep with cartridge
Internal Drive	5V: 2.1A/1.2A	5V: 2.1A/1.2A	5V: 0.8A/0.6A
Internal Drive (motor running/idle)	12V: 0.8A/0.1A	12V: 0.8A/0.1A	12V: 0.7A/0.2A
External Drive	100 - 240 V ac / 0.6 - 0.3A, 50-60 Hz		
Certification	FCC, Part 15 Class B; EN55022, Class B; IEC60950, Class B; CISPR22, Class B, EN55024, CE, UL,C-UL, GS/TUV, VCCI, C-Tick, UL-60950/C-UL C22.2 No. 8950; TUV EN60950		
Warranty and Support	3 years warranty, free multi-lingual support hotline and 3 years Advanced Replacement Service (ARS)**		

\* Assumes a 2:1 compression ratio  
\*\* Availability dependent on location

Form Factor	Internal Dimensions	External Dimensions
Height:	41.3mm (1.625 in)	59mm (2.32 in)
Width:	146mm (5.75 in)	198mm (7.8 in)
Length:	214mm (8.4 in)	257mm (10.12 in)
Weight:	1.4kg (3.08 lbs)	2.9kg (6.38 lbs)

### About Tandberg Data

Tandberg Data is a leading global supplier of backup and archiving technologies. Tandberg Data offers a complete range of tape libraries, tape autoloaders and tape drives (based on the LTO™, SLR™, VXA® tape technology platforms), storage software, data media and disk-based storage such as the RDX™ QuikStor. These solutions are marketed exclusively through a channel of qualified resellers and distributors. These solutions are underpinned by OEM agreements with major server manufacturers including IBM, Hitachi, Fujitsu, Fujitsu-Siemens, Apple and Dell and supported by all major operating systems and storage software applications to operate in heterogeneous network environments. All solutions are designed to meet the growing storage requirements of small and medium-sized organisations with scalability, reliability and backward compatibility features that ensure cost effective operation and long-term investment protection.

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