

TANDBERG LTO HALF HEIGHT



Product Highlights

- Transfer rates of up to 432 GB/Hr*
- Capacities up to 800 GB*
- Compact Half-Height dimensions
- 128 MB buffer and adaptive transfer rates on LTO-3 HH
- Less than 13 watts power consumption on LTO-3 HH
- 250,000 hours MTBF at 100% duty cycle
- 3 years warranty and 3 years Advanced Replacement Service (ARS)**

*assuming 2:1 data compression

**availability dependent on location

LEADING PERFORMANCE AND CAPACITY

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 LTO brings enterprise level performance to small and medium businesses at an affordable price.

Future Proof

The Tandberg Data 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 workstations. The LTO technology makes it easy for users to standardize on a tape technology that meets today's data capacity requirements and ensures future growth potential. LTO's 6 generation roadmap, with 4 generations available today, makes it a clear choice for small to medium businesses.

Cartridge environment ensures high reliability

Tandberg Data's patented "Smart Gripper" technology securely locks the media leader pin to help ensure positive tape loading. The drive also offers embedded media management feature for intelligent diagnostics and tape alert, along with an automatic head cleaning brush for advanced preventative maintenance and reduced down times.

Enterprise level performance at low cost per Gigabyte

The Tandberg LTO-3 HH, LTO-2 HH and LTO-1 HH 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. At an affordable entry-level cost, the high performance and enterprise-level features and reliability make Tandberg LTO-half-height the drives of choice for any small and medium sized businesses. Tandberg Data's LTO drives are backed by more than 25 years of experience in linear tape technology research, design and manufacturing

Five reasons to select the Tandberg LTO-1, LTO-2 or LTO-3 HH

■ Price/performance

High capacity, performance and enterprise level features at low cost per GB

■ Future proof

Scalable to 800 GB native capacity today, the LTO roadmap offers a 6 generation migration path with capacities up to 3.2 TB

■ Investment protection

Full backward compatibility within the LTO family

■ Reliability

Proven technology offers rock solid reliability and data integrity with MTBF of 250,000 hours at 100% duty cycle

■ WORM

WORM (write once, read many) helps customers meet regulatory compliance requirements (LTO-3 only)



About Tandberg Data

Tandberg Data is a leading global supplier and manufacturer of tape drives, tape automation and disk sub-systems. Tandberg Data offers solutions based on the LTO™, SLR™ and VXA™ tape technology platforms, storage software, media and disk-based storage. 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. Tandberg Data has been proudly servicing its customers for over 25 years, and customer service is fundamentally important to Tandberg Data.

Specifications

Tape Drive	Tandberg LTO-3 HH	Tandberg LTO-2 HH	Tandberg LTO-1 HH
Technology:	LTO Ultrium 3 Half Height	LTO Ultrium 2 Half Height	LTO Ultrium 1 Half Height
Capacity (native):	400 GB	200 GB	100 GB
Capacity (compressed)*:	800 GB	400 GB*	200 GB*
Transfer Rate (native):	60 MB/s	24 MB/s	16 MB/s
Transfer Rate (compressed)*:	120 MB/s	48 MB/s*	32 MB/s*
Burst Transfer Rate:	160 MB/s	160 MB/s	160 MB/s
File Access Time:	76 sec.	76 sec.	76 sec.
Memory Buffer Size:	128 MB	64 MB	64 MB
Data Compression:	In-line	LTO-DC (enhanced version of ALDC), In-line hardware compression	LTO-DC (enhanced version of ALDC), In-line hardware compression
Interface:	Ultra 160 SCSI LVD	Ultra 160 SCSI LVD	Ultra 160
Data Cartridge:	LTO-3	LTO-2	LTO-1
Recording Format:	LTO-3	LTO-2	LTO-1
Number of tracks:	704 data tracks (LTO-3)	512 data tracks (LTO-2)	384 data tracks (LTO-1)
Tape Alert Compliant:	Yes	Yes	Yes
Tape Motion			
Tape speed read / write:	166 ips	166 ips	172 ips
Wind / rewind both formats:	166 ips	200 ips	200 ips
Reliability			
MTBF (hours):	250,000 hours @ 100 % duty cycle		
Hard Read Error Rate:	1 x 10 ⁻¹⁷		
Head Life:	30,000 tape running hours		
Safety Features Embedded:	Self test, error logging and Media Management Diagnostics, intelligent head cleaning brush		
Media Loading Mechanism:	Smart gripper		
Dimensions			
Internal Drive (H x W x D):	41.3 x 146 x 214 mm (1.625 x 5.75 x 8.4")		
Weight:	1.4 kg (3.08 lb.)		
External Drive (H x W x D):	59 x 198 x 257 mm (2.32 x 7.8 x 10.12")		
Incl. rubber feet:	64.5 x 205 x 257 mm (2.54 x 8.07 x 10.12")		
Weight:	2.9 kg (6.38 lb.)		
Environmental Specifications			
Temperature operating:	10° C to 40° C (41° F to 104° F)		
Temperature storage:	-30° C to 60° C (-22° F to 104° F)		
Relative humidity operating:	20 % to 80 %		
Relative humidity storage:	5 % to 90 %		
Maximum Wet Bulb Temperature:	10° C / hour non condensing		
Power Requirements			
Power dissipation:	13 W typical motor running 6 W sleep with cartridge	18 W typical motor running 9 W sleep with cartridge	18 W typical motor running 9 W sleep with cartridge
Internal Drive (motor running/idle):	5 V: 0.8A/0.6A 12 V: 0.7A/0.2A	5 V: 2.1A/1.2A 12 V: 0.8A/0.1A	5 V: 2.1A/1.2A 12 V: 0.8A/0.1A
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)**		

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**availability dependent on location

Model numbers

LTO-1 HH (220LTO), Internal bare drive, black	3120
LTO-1 HH (220LTO) QS Kit, External tape drive, black, 1 DC	3102
LTO-2 HH (420LTO), Internal bare drive, black	1004
LTO-2 HH (420LTO) QS Kit, External tape drive, black, 1 DC	3003
LTO-3 HH (820LTO), External bare drive	3252
LTO-3 HH (820LTO) QS Kit, Internal tape drive	3253
LTO-3 HH (820LTO) QS Kit, External tape drive,	3254

Media

Tandberg LTO-1 Data Cartridge	432630-1
Tandberg LTO-2 Data Cartridge	432744
Tandberg LTO-3 Data Cartridge	433216
Tandberg LTO Cleaning Cartridge	432631

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