

TANDBERG LTO FULL HEIGHT



Product Highlights

- Capacities of up to 1.6 TB* with transfer rates up to 240 MB/sec*
- Backward read and write compatibility
- Adaptive Tape Threading
- Graceful dynamic braking
- Digital Speed Matching
- Write Once, Read Many (WORM) for regulatory compliance
- 3 years warranty and 3 years Advanced Replacement Service (ARS)**

*assuming 2:1 data compression

** availability dependent on location

LEADING PERFORMANCE AND CAPACITY

Future Proof

The 4th generation Tandberg LTO drives are designed to meet the Storage challenges faced by organisations today. Exponential data growth, coupled with business continuity requirements, regulatory compliance and resource constraints make the need for reliable, cost effective data protection solutions more necessary than ever before. The Tandberg LTO drives address these requirements by offering capacities up to 1.6 TB*, high throughput and enterprise class features.

Enhanced performance and capacity

The Tandberg LTO-4 drive doubles the capacity over LTO-3 increasing to 1.6 TB compressed from 800 GB*, and offers transfer rates up to 240 MB per second. The LTO-4 drives offer full backward compatibility with LTO-3 cartridges and backward read compatibilities with LTO-2 cartridges, helping to protect the investment customers have made in LTO technology.

Data encryption** for enhanced security

Increasing attention is being paid to the need to protect company data against theft or accidental loss, particularly data that contain personal or sensitive information of a company's customers. The Tandberg LTO-4 FH includes data encryption capabilities within the drive, helping to avoid the need for host-based encryption of data or the use of specialized encryption appliances. This will provide customers with greater ability to protect information if cartridges are lost or stolen.

High reliability with Adaptive Tape Threading

The Tandberg Data LTO drives features Adaptive Tape Threading which helps to protect against load failures with 8 independent sensor readings, which provide input to enhanced firmware. By verifying tape speed and tape spinning wheel, modulating the thread profile to help provide tension control, using thread algorithm to help detect damaged cartridges and including a unique design that prevents accidental pulling of the leader pin, the Tandberg Data LTO drives offer high reliability, required in medium and large enterprises.

Why standardize on LTO?

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 4 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.

** available summer 2007

Five reasons to select the Tandberg LTO Full Height Drives

■ Performance

with transfer speeds up to 240 MB/s*, the LTO drives are the fastest midrange drive in the industry

■ Low Total Cost of Ownership (TCO)

Compatibility with previous generations LTO media for investment protection and high capacity result in low TCO

■ Reliability

Rock solid reliability and data integrity with MTBF of 250,000 hours at 100% duty cycle

■ 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

■ Digital Speed Matching (DSM)

DSM is designed to help improve throughput in environments where the host data rates vary



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	LTO-3	LTO-4
Capacity (native):	400 GB	800 GB
Capacity (compressed)*:	800 GB*	1600 GB*
Transfer rate (native):	80 MB/s	120 MB/s
Transfer rate (compressed)*:	160 MB/s*	240 MB/s*
Interface:	Ultra - 160 SCSI LVD	4 Gb FC, 3 Gb SAS, SCSI Ultra 160
Number of tracks:	704	824
Buffer Size:	128 MB	256 MB
Data Cartridge:	LTO-3	LTO-4
Write:	LTO-3, LTO-2	LTO-4, LTO-3
Read:	LTO-3, LTO-2, LTO-1	LTO-4, LTO-3, LTO-2
Data rate matching:	Digital speed matching (DSM) from 40 MB/s to 80 MB/s	DSM from 30 MB/s to 120 MB/s
Average rewind time:	55 s	54 s
Encoding/Decoding:	PRML	PRML
Reliability		
MTBF:	250,000 hours @ 100 % duty cycle	
Error rate (calculated):	1 x 10 ¹⁷ Bytes per permanent read error	
Error rate (validated):	1 x 10 ¹⁴ Bytes per permanent read error	
Error rate (validated):	1 x 10 ¹³ Bytes per permanent write error	
Physical characteristics		
Dimensions (internal drive) H x W x D:	8.5 cm x 14.9 cm x 21.1 cm (3.33" x 5.83" x 8.33")	
Weight:	3.0 kg (6.6 lb.)	
Dimensions (external drive) H x W x D:	14.6 cm x 17.1 cm x 33.3 cm (5.75" x 6.74" x 13.11")	
Weight:	6.6 kg (4.3 lb.)	
Operating environment		
Operating temperature:	50° to 100° F (10° to 40° C)	
Relative humidity:	20 % to 80 % (non condensing)	
Electrical power:	5 V at 3.3 A, 12 V at 1.1 A (steady state)	
Power specification:	100 – 240 V AC	
Supported Systems		
	Microsoft® Windows 2003; Microsoft Windows Server 2003; Sun Solaris 8,9; HP-UX 11.0, 11i; Linux® (Read Hat Enterprise Server 3, SUSE LINUX Enterprise Server 8; AIX® Version 5L 5.1, 5.2, 5.3; and Novell NetWare)	OS400, AIX 5.1 or above, Solaris, HP-UX, Netware, Windows 2003, Linux (Generic and Redhat)
Warranty		
Internal and External:	3 years and 3 years advanced replacement service**	

*assuming 2:1 data compression
**availability dependent on location

Modelnumbers

Tandberg 840LTO (LTO-3 FH) Internal bare drive, black	7030
Tandberg 840LTO (LTO-3 FH) kit, Internal, black, 1 DC + 1 CC	7031
Tandberg 840LTO (LTO-3 FH) kit, External, black, 1 DC + 1 CC	7034
Tandberg LTO-4 FH Internal bare drive, black	7200
Tandberg LTO-4 FH kit, Internal, black, 1 DC + 1 CC	7201
Tandberg LTO-4 FH kit, External, black, 1 DC + 1 CC	7202

Media

Tandberg LTO-1 Data Cartridge	43 2630-1
Tandberg LTO-2 Data Cartridge	432744
Tandberg LTO-3 Data Cartridge	433216
Tandberg LTO-4 Data Cartridge	433781
Tandberg LTO Cleaning Cartridge	432631

Tandberg Data ASA
Kjelsåsveien 161
0411 Oslo
Norway

T +47 (0) 2218 9090
F +47 (0) 2218 9550

Tandberg Data UK Ltd.
Bloxham Mill Business Park
Barford Road
Bloxham – Banbury
Oxfordshire
OX15 4FF
United Kingdom

T +44 (0) 8450 706 916
F +44 (0) 1865 487 203

Tandberg Data GmbH
Feldstrasse 81
44141 Dortmund
Germany

T +49 (0) 231 5436 - 0
F +49 (0) 231 5436 - 111

Tandberg Data S.A.
16-18, av. Morane Saulnier
Bât.A
78941 Vélizy Cedex
France

T +33 (0) 1 39 26 01 01
F +33 (0) 1 34 65 02 89

Tandberg Data Corp.
2108 55th Street
Boulder, CO 80301
USA

Toll Free +1 800 392 2983
Local (303) 442 4333

Tandberg Data (Japan) Inc.
Eitaibashi Eco-Piazza Bldg,
8th floor
29-13, Shinkawa 1-chome,
Chuo-ku
Tokyo 104-033
Japan

T +81 (0) 355 662 871
F +81 (0) 355 662 875

Tandberg Data (Asia)
Pte-Ltd
20 Bendemeer Road
#04-05 Cyberhub
Singapore 339914

T +65 (0) 6396 0786
F +65 (0) 6396 0787

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