



Tandberg 840LTO

Leading performance and capacity

Enhanced performance and capacity

The third-generation Tandberg 840LTO is designed to help meet the storage challenges faced by IT organizations today. First, there is the enormous growth in data, fueled by business continuity, regulatory compliance and information lifecycle management initiatives. Then, there are initiatives to improve IT operations, such as infrastructure simplification, improved administrative productivity and more reliable, cost-effective data protection.

Enhancements in third-generation drives

The Tandberg 840LTO introduces new features that can help increase throughput, capacity and reliability over previous generation LTO drives while also helping to protect critical data.

A new **16-channel head design** increases drive performance.

Digital Speed Matching (DSM) is designed to help improve throughput in environments where the host data rate is less than optimal.

Reduction of the overall power consumption from that of previous generation LTO drives.

Redesigned head actuator provides improved read head tracking capability and performance.

Enhanced power management results in reduced heat dissipation and greater operational efficiency than that of previous generation LTO drives.

Low total cost of ownership

The high performance and capacity of Tandberg 840LTO can help reduce the number of tape cartridges, tape drives and tape libraries required in a storage environment. Compatibility with prior generations of Ultrium media makes it possible for customers to easily migrate to this new generation.

*2:1 Hardware Data compression



Greater capacity and speed

Offering up to twice the capacity and more than double the performance of the preceding Ultrium 2 generation of drives, the Tandberg 840LTO is designed for integration into servers, desktop enclosures, autoloaders and scalable automated tape libraries.



Special functions

- Up to 800 GB* capacity with 160* MB/s transfer rate
- Ultra-160 SCSI LVD interface
- Backward read/write compatibility with LTO 2
- Read compatibility with LTO 1
- Digital Speed Matching (DSM)
- Enhanced servo positioning
- 3 years warranty

Tape Drive

Capacity: Native/Compressed:	LTO Ultrium 3 400 GB / 800 GB*
Sustained data transfer rate:	Up to 160 MB/s*; 80 MB/s native
Interface:	Ultra-160 SCSI LVD
Number of tracks:	704
Data cartridge	LTO Ultrium 3
Backward compatibility:	Read/write compatible with Ultrium 2, Read compatible with Ultrium 1
Data compression:	SLDC (LTO data compression per ECMA-321)
Rewind speed:	Up to 8 m/s
Operating speed:	Up to 5.44 m/s
Data rate matching:	Digital speed matching (DSM) from 40 MB/s to 80 MB/s
Maximum locate speed:	Up to 8 m/s
Average file access:	54 s
Average load to BOT:	15 s
Average unload from BOT:	15 s
Average rewind time:	55 s (average Ultrium 2 cartridge)

Reliability

MTBF (hours):	250,000 @ 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):	8.5 cm H x 14.9 cm W x 21.1 cm D (3.33" H x 5.83" W x 8.33" D)
Weight:	3.0 kg (6.6 lb.)
Dimensions (external drive):	14.6 cm H x 17.1 cm W x 33.3 cm D (5.75" H x 6.74" W x 13.11" D)
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 dissipation:	10 W (idle with cartridge), 28 W (read/write)
Supported systems	Microsoft® Windows® 2000; Microsoft Windows Server 2003; Sun Solaris 8, 9; HP-UX 11.0, 11i; Linux® (Red Hat Enterprise Server 3, SUSE LINUX Enterprise Server 8; AIX® Version 5L 5.1, 5.2, 5.3; and Novell NetWare)

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