

# TANDBERG SECURESTOR LTO440I

Excellent Storage Solution For Midrange  
And Enterprise Server Environments



## Enhanced Performance And Capacity

To meet the growing challenges of today's enterprise environment—rapid data growth and shrinking backup windows, Tandberg Data has introduced the storage solution; together with the ValuNAS product, Tandberg SecureStor LTO440I. Using advanced technologies, this tape drive offers more than twice the performance of the preceding generation and doubles the cartridge capacity when used with the new Ultrium 2 media.

## Compatibility with First-Generation Ultrium Technology

The Tandberg SecureStor LTO440I also helps improve performance when used with first-generation Ultrium media; however, using Ultrium 2 media can help shorten backup and restore times, require fewer tapes and result in optimal throughput. Coexistence with first-generation Ultrium tape technology is designed to allow for easier upgrades, helping to protect customers' investments in drives, media and tape automation platforms.

## Lower Total Cost Of Ownership

Exploiting the performance and capacity of the Tandberg SecureStor LTO440I can help reduce the number of tape cartridges, tape drives and tape libraries required in a storage environment, allowing existing customers to expand their current installation and new customers to install a cost-effective solution.

## Special Features

- ~ Capacity: Up to 400GB\* to address the challenge of rapid data growth
- ~ Transfer rate: Up to 70MB/s\*
- ~ Backward read/write compatibility, can co-exist with first-generation Ultrium tape drives and media
- ~ Features enhanced data compression and digital speed matching to provide optimal performance and storage capacity for disparate server environments
- ~ Adheres to the Linear Tape-Open (LTO) to allow enterprises to adopt a standard tape drive/tape format

\* Assuming 2:1 data compression

## Second-Generation Enhancements

The SecureStor LTO440I drive features several technology enhancements that help optimize data throughput, increase cartridge capacity and provide excellent data protection:

~ **Digital Speed Matching (DSM)** is designed to allow the drive to adjust its native data rate to closely match the host data rate. Along with an increased buffer, this feature can help improve throughput in an environment where the host data rate is less than optimal.

~ A **64MB buffer** works in combination with DSM to mask the impact of data rate fluctuations by helping reduce backhitch operations and allowing the tape drive to perform at its optimal speed.

~ An **optimal LTO data compression (SLDC)** implementation uses an algorithm (patented by IBM) that is designed to synchronously swap the data compression scheme between ALDC and pass-thru for optimal data compression, resulting in increased storage capacity. While data compression is being performed, a separate circuit, designed to perform simultaneous decompressions, supports data integrity.

~ **Partial Response Maximum Likelihood (PRML) channel**

~ **Enhanced servo positioning**

~ **Additional reel motor enhancements**

~ **Smart power management**

<b>TANDBERG SECURESTOR LTO440I</b>	
<b>Characteristics</b>	
Tape drive type	LTO Ultrium 2
Capacity per cartridge	400GB* / 200GB
Sustained data transfer rate	70MB/s* / 35MB/s
Aggregate sustained data rate	252GB/hr*
Number of tracks	512
Data cartridge	LTO Ultrium 1, LTO Ultrium 2
Cleaning cartridge	LTO Ultrium Cleaning Cartridge
Backward compatibility	Read/Write compatible with LTO Ultrium 1
Interface	Ultra 160 SCSI LVD
Data compression	SLDC (LTO data compression per ECMA-321)
Rewind speed	Up to 8 meters/second
Operating speed	Up to 6.22 meters/second
Data rate matching	Digital speed matching (DSM) from 17.5MB/s to 35MB/s
Locate speed	8 meters/second
Average file access	49 seconds
Load to BOT	15 seconds
Unload from BOT	15 seconds
Rewind time	49 seconds (average Ultrium 2 cartridge)
<b>Physical Characteristics</b>	
Dimensions (Internal Drive)	3.33" H x 5.83" W x 8.33" D (8.5cm x 14.9cm x 21.1cm)
Weight	6.6 lb (3.0 kg)
<b>Operating Environment</b>	
Operating temperature	50° to 100° F (10° to 38° C)
Relative humidity	20% to 80% (non-condensing)
Electrical power	5V at 3.1A, 12V at 1.1A (steady state)
Power dissipation	13W (idle-cartridge), 29W (read/write), 9W (sleep-no cartridge)
<b>Supported Systems</b>	
	Microsoft® Windows NT® 4.0 with Service Pack 6.0. Microsoft Windows® 2000/2003; Sun™ Solaris™; HP-UX; Linux® (Intel® processor-based servers); AIX® Version 4.3.3, 5.1, 5.2 and Novell Netware
<b>Warranty</b>	
Internal drive	3 years warranty

For more information, kindly contact your Tandberg Data sales representative or authorised distributor, or visit [www.tandberg.com](http://www.tandberg.com)

\* Assuming 2:1 data compression

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