

## A New Class of Affordable LTO Tape Automation

Taking Care of Big Data Sets and Tight Backup Windows

**Many businesses and workgroups are inundated by larger and larger data sets stored on greater capacity servers. Trying to back up all this data is a challenge. The backup window is no bigger than before, perhaps even smaller. You need more backup capacity... "On-Demand," and you need faster data transfer rates.**

### BIGGER AND FASTER

As server capacities continue to grow, the search is on for easier methods and smarter technology to protect the expanding data. Backup has to be affordable and trouble-free. A cumbersome backup process is a concern of today's small-to-midsize business because the risks of human error and neglect compound the problem and emphasize the need to safeguard the data.

Just what are some of the risks faced by SMBs and departmental IT staff today? Physical accidents like water damage, fire, earthquake, theft, damage to servers through electrical jolts or physical movement, human mistakes and neglect, hardware failure, and increasing levels of hacking and viruses make it more necessary than ever to protect valuable data. Not only is the sheer volume of data steadily increasing, but also the increased demands of business regulation are raising the bar for responsible safeguarding of data.

Whether you are backing up an individual workstation or a small network, tape is an ideal storage medium to protect the investment in your data because it is capable of storing high capacities of information at a relatively low cost. Tape is also a great answer for long-term archiving because you can easily store data cartridges off site for enhanced data security. An inexpensive tape archive helps you meet the requirements legislated by HIPAA, Sarbanes-Oxley, and additional state-specific legislation.

### PRESERVE YOUR INVESTMENT

You and your organization have a big investment in your data—the result of significant time and effort invested by countless individuals, and all-important operations documentation such as financial records, electronic communications records, and intellectual property records. In addition to documents, the storage requirement just for digitized images seems to grow exponentially year-by-year. The consequences of losing or misplacing that data now extend outside the organization itself. There has been a steady march of government regulation for increased preservation and safeguarding of your data.

### DATA AT RISK

Two things happen to put your data at risk: (1) the data is not backed up, and (2) the original copy is lost or corrupted. It's not always inanimate things that go "bump in the night" that suck the bits and bytes into a black hole. We've learned that human error accounts for fully a third of data loss.

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### BACKUP NEEDS TO BE AFFORDABLE, AUTOMATED, AND SIMPLE

As the volume of data increases, the average workstation hard disk capacity and server capacity must expand to accommodate it. Here's the chain reaction that naturally occurs...you begin running out of backup capacity as you endeavor to protect the data. Your backup process expands to the point where it exceeds the time available for backup. You have to arrange to swap tapes during evening hours or on weekends, and the potential for human error rises as the backup chore requires more steps and more people.

### KEEPING PACE WITH DATA GROWTH

You're concerned about the increasing risk of human error. You find yourself wishing that you could automate the backup process, expand your backup capacity without always buying new hardware, and accomplish all of this within tighter IT budgets and fewer IT resources.

Traditional solutions deployed by SMBs often fail to keep pace with data growth, posing costly challenges for customers over time. As a result, you have been faced with a dilemma of buying enough capacity to meet current needs without scalability for the future, or overspending on large tape libraries that are overkill for your current requirements.

Is there an affordable solution that will automate my backups, and is scalable...now, and scalable in the future?

### INTRODUCING THE STORAGE LIBRARY T24

To meet these needs of the SMB community, Tandberg Data introduced a new product category: the industry's first low cost SMB/departmental entry-level LTO tape library.

Tandberg Data's StorageLibrary T24 helps you solve these problems with an unprecedented combination of plug-and-play backup simplicity and capacity-on-demand scalability. All of this is engineered into a compact and extremely affordable solution loaded with high-end features.

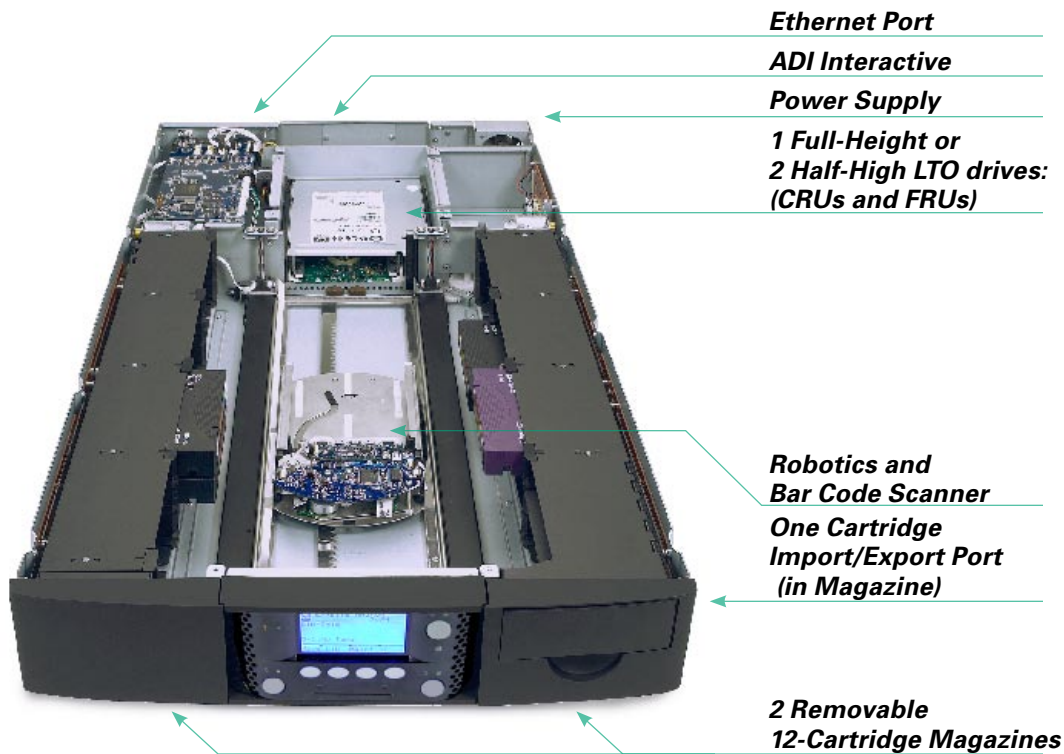


### THE ADVANTAGES OF THE STORAGE LIBRARY T24 ARE SIGNIFICANT:

- Scalable capacity: 4.8/9.6TB to 19.2/38.4TB (native/compressed)
- Slots for 12 data cartridges standard, expandable to 24 slots with optional magazine.
- Scalable transfer speeds: 86.4GB/hr expandable to 864GB/hr (compressed)
- The first and only LTO-2 Library to break the \$5,000 threshold with a price of about \$3,200\*
- Compact, 2-rack unit (2U) form factor that maximizes valuable rack space
- Superior reliability
- Capacity On-Demand Field Upgradable from LTO-2 up to LTO-4 by simply swapping the existing drive for the next generation (even when installed in a rack)
- LTO SCSI drives are upgradable to LTO-3 or LTO-4 Native Fibre Channel

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### FEATURES OF THE STORAGE LIBRARY T24

The standard StorageLibrary T24 package includes the drive, a 24-cartridge magazine, a SCSI or Native Fibre Channel interface and 2U height robotics, and is loaded with standard features such as a rack kit, remote management capabilities, and barcode reader—essential tools that competing manufacturers add on at the end of their sale, often costing you more than a thousand extra dollars.

### THE STORAGE LIBRARY T24 IS EASILY SCALABLE

Rather than replacing hardware as your data expands, you can simply and affordably expand your backup storage capacity with an additional drive or a higher-capacity drive...all without the tape library leaving the rack.

The StorageLibrary T24 is available in several drive configurations:

- One half-height LTO-2 tape drive
- Two half-height LTO-2 tape drives
- One full-height LTO-3 tape drive
- Two half-height LTO-3 tape drives
- One full-height LTO-4 drive

The automation afforded by a library takes care of the chore of swapping tapes—unattended—and allows you to add tapes as the data grows. The StorageLibrary T24 ships with two 12-slot magazines that include an import/export port.

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## STORAGELIBRARY T24 CONFIGURATIONS FEATURING “CAPACITY ON-DEMAND”

DRIVE CONFIGURATION	STANDARD 24-TAPE MAGAZINE	DATA TRANSFER SPEED
(1) Half-Height LTO-2 Drive (LTO-2 tape cartridges 200/400GB*)	(1x24) 4.8/9.6TB*	86.4GB/hr, 172.8GB/hr*
(2) Half-Height LTO-2 Drives	(2x24) 4.8/9.6TB*	172.8GB/hr, 345.6GB/hr*
(1) Full-Height LTO-3 Drive	(1x24) 9.6/19.2TB*	288GB/hr, 576GB/hr*
(1) Half-Height LTO-3 Drive (LTO-3 tape cartridges 400/800GB*)	(1x24) 9.6/19.2TB*	216GB/hr, 432GB/hr*
(2) Half-Height LTO-3 Drives	(2x24) 9.6/19.2TB*	432GB/hr, 864GB/hr*
(1) Full-Height LTO-4 Drive (LTO-4 tape cartridges 800/1600GB*)	(1x24) 19.2/38.4TB*	432GB/hr, 864GB/hr*

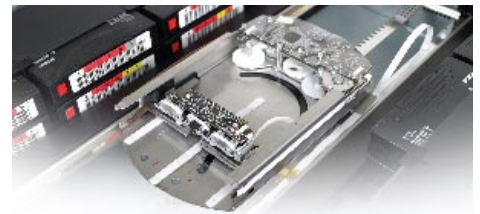
\* Assumes a 2:1 compression

- Adding a 2nd HH LTO-2 or HH LTO-3 drive doubles your speed
- Upgrading from HH LTO-2 to FH LTO-3 more than triples your speed while doubling your capacity
- Upgrading from HH LTO-3 to FH LTO-4 increases your speed by 50% and doubles your capacity

## TANDBERG DATA AUTOMATION

Tandberg Data automation is built on a 30 year legacy of superior engineering, quality and reliability. Tandberg Data engineers specify conservative electronics and ultra-reliable mechanical components that undergo intensive testing to ensure data security, accessibility, and tape retrievability.

Automation systems are designed to share electronics and processor architecture with drives, adding to reliability and economies of scale. Similarly, Tandberg Data’s self-calibrating, self-correcting firmware mirrors the simple, clean mechanical engineering offered throughout Tandberg Data automation.



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### MEDIA

The StorageLibrary T24 is compatible with LTO Ultrium™ tape cartridges. LTO tape cartridges are available in 200/400\*GB capacity for LTO-2 drives, and 400/800\*GB capacity for LTO-3 drives.



LTO ULTRIUM TAPE DRIVE	ULTRIUM 4 (GREEN)		ULTRIUM 3 (SLATE BLUE)		ULTRIUM 2 (PURPLE)		ULTRIUM 1 (BLACK)		LTO ULTRIUM CLEANING CARTRIDGE
	READ	WRITE	READ	WRITE	READ	WRITE	READ	WRITE	
LTO-4	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
LTO-3	No	No	Yes	Yes	Yes	Yes	Yes	No	Yes
LTO-2	No	No	No	No	Yes	Yes	Yes	Yes	Yes

### LTO OUTSELLS DLT/SDLT 9:1

LTO has long been considered the most vital tape format for midsize enterprises and up. It is a high-performance tape technology offering versatility, reliability and performance. Unfortunately, the advantages of LTO have—until now—been kept out of reach for many businesses such as yours because of the high price of automation.

LTO is the accepted, dominating half-inch tape drive technology outselling DLT/SDLT by over a 9:1 margin. DLT/SDLT continues to lose market share since the introduction of LTO in 2000.

### WORM CAPABILITY (W/LTO-3 AND LTO-4 DRIVE)

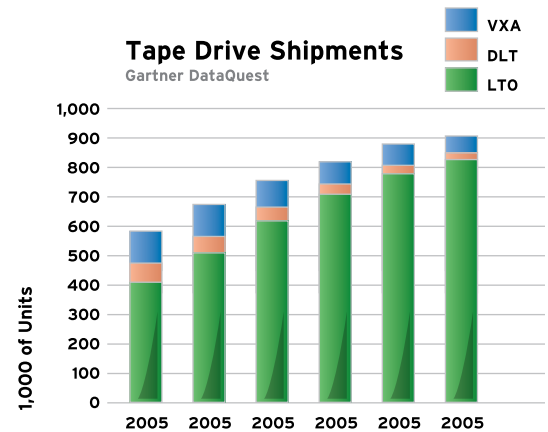
For greater data security when storing data to tape, a Write Once, Read Many (WORM) storage method may be used to store data in a non-erasable, non-rewritable format. This is intended to assist in supporting the long-term retention of data and to meet the requirements of many regulatory bodies worldwide. This product's LTO-3 and LTO-4 drives are WORM-ready. Note: because standard read/write LTO tape cartridges are incompatible with the WORM feature, a specially-formatted WORM cartridge is required. The WORM cartridges are identified by their unique color and includes advanced security features designed to prevent the alteration or deletion of stored data.

### INSTALLATION SERVICES

Take advantage of Tandberg Data's technical expertise with StorageLibrary T24 Professional Installation. For a nominal fee, we will do the installation and have your StorageLibrary T24 up and running in no time. The StorageLibrary T24 professional installation will be performed by a Tandberg Data Engineer.

Professional installation includes:

- Unpacking the library and associated accessories
- Installation of add-on drives and accessories
- Ensure that all products are functional and ready for use
- Verify that all Tandberg Data devices are communicating with the appropriate hardware interface



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- Provide customer orientation and technical training
- “Best effort” integration in identifying/overcoming library-related interoperability issues
- Professional Installation customers should plan for a full-day, on-site collaboration

### FURTHER INFORMATION

If our whitepaper on the StorageLibrary T24 has not answered all your questions about your backup challenges, Tandberg Data storage specialists are available globally to offer you help in finding the best solution for your business.

Tandberg Data is a leading global supplier of backup and archiving technologies. Tandberg Data offers of a complete range of tape libraries, tape autoloaders and tape drives (based on the LTO™, SLR™, and VXA® technology platforms), storage software, data media and disk-based storage such as the RDX™ QuikStor, designed to meet storage requirements of small and medium-sized businesses.

**Please contact Tandberg Data on 00 800 8263 2374 (EMEA) or 800 392 2983 (US) or contact your regional office directly.**

**You can also visit Tandberg Data online at [www.tandbergdata.com](http://www.tandbergdata.com).**

### TRADEMARK NOTICES

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