



# Dell PowerVault TL4000 Tape Library

Expandable and versatile high-performance tape library that delivers up to 72TB native (LTO-5) capacity with minimal investment

## Versatile, Expandable, Affordable

You know the value, convenience, and security that tape libraries bring to backup and archiving strategies — and now, Dell puts it all within the reach of your organization. Dell's PowerVault TL4000 Tape Library offers expandable and affordable tape automation for organizations whose data-protection needs have outgrown autoloader technology or capacity. It is the product of choice for small, medium, and large businesses that require an affordable, versatile, easy-to-use, automated, mid-range tape backup solution.

Now your organization can enjoy the benefits of hands-off, around-the-clock operation. IT resources help minimize human error, back up data quickly and predictably, create off-site archive copies of data to meet compliance requirements, and bolster your disaster-recovery strategy.

## Many data-protection challenges — One simple solution

The Dell™ PowerVault™ TL4000 tape library enables two critical data-protection activities: backup and archiving.

**Backup:** Create on-site backup copies of data, using the rewritable functionality of LTO media. Many industry-standard backup software offerings are tested and validated to run smoothly on TL series tape libraries.

**Archiving:** Create permanent, portable archive copies of data using WORM (Write Once, Read Many) capability. WORM enables you to create data copies that cannot be overwritten, to help you comply with government and industry data-protection requirements. Tape media is easily portable — it lets you affordably archive your important data offsite to enhance your disaster-recovery strategy.

## Simplicity, from the start

PowerVault TL4000 tape libraries are expandable, versatile, and easy to use and connect to a server or a SAN. The PowerVault TL4000 features an intuitive operator control panel, plus remote Web management — you can perform setup and diagnostics, check status, monitor operations and logs, and upgrade firmware all from any standard Web browser.

## The right capacity and features for your organization

The PowerVault TL4000 tape library is delivered ready to rack mount, and packs tremendous capacity into a small package. The PowerVault TL4000 tape library is a 4U solution holding up to 48 tapes for a native capacity of up to 72TB with LTO-5 tape media.

LTO-5 backs up a staggering 504GB per hour per drive, or a maximum of 2.016TB per hour with four drives, making the PowerVault TL4000 tape library ideal for growing data-protection needs. Encryption Key Management is available with LTO-4 and LTO-5 technology for added security. If you need to back up and/or archive and want to do it easily, affordably, and securely, the PowerVault TL4000 tape library is right for you. The PowerVault TL series also retains the backward read-and-write compatibility with the prior generation of LTO and read compatibility with two generations back.

## Frees up resources and helps improve reliability

Free yourself from the inconvenience of manual involvement in backup and recovery. Dell PowerVault TL series tape libraries contain multiple slots for storing tape media and uses a robotic mechanism to move media automatically, allowing for unattended and independent operation. To keep contents properly organized, a bar code reader inventories and tracks all tapes stored in the library. PowerVault TL4000 tape libraries feature an optical cartridge-location technology for precision cartridge handling and inventory. And, for added assurance, the TL4000 library offers redundant power supplies. You can save on staff resources while improving reliability.

## Dell's PowerVault TL4000 Tape Library changes the economics of storage

If your backup requirements have outgrown autoloader technology, the PowerVault TL4000 tape library is the ideal step up to entry and mid-range library space. Now you can enjoy the ease and affordability of an autoloader with the performance, capacity, and reliability of a tape library.

## Support for your Dell iSCSI SAN

To supplement the growth in iSCSI SANs, Dell has introduced an iSCSI-to-SAS bridge card for the TL-series tape libraries (Dell PowerVault TL2000 & TL4000). This solution allows users to add in a tape backup target to an iSCSI 1Gb Ethernet SAN utilizing little to no degradation in transfer speed, 90Mb/s in most cases.

## Introducing Dell ProSupport

Designed to address the technology challenges you face today. Designed for IT professionals like you, Dell ProSupport for IT provides 24/7 direct access to Dell Expert Centers, fast-track dispatch of parts and labor without phone troubleshooting when desired for Dell-certified technicians, and escalation management through Dell's Global Command Centers. In addition, Dell ProSupport optional services align with the way you use technology by providing rapid response to your needs, helping to protect your investment, productivity, and sensitive data, and enhancing proactive support services to help reduce the risk and complexity of managing your infrastructure.

### Speed of Response

With the Mission Critical<sup>1</sup> option, you get priority response for server and storage environments when avoiding unplanned downtime and reducing recovery time are critical. Includes priority 4-hr on-site<sup>1</sup> service or optional 2-hr response<sup>1</sup> with 6-hr hardware repair,<sup>1</sup> Dell's proven Critical Situation process, and emergency dispatch.

### Protection

With the Keep Your Hard Drive<sup>2</sup> option, you retain control of your sensitive data and comply with data-privacy regulations (to help mitigate regulatory and civil liability risks) by keeping your hard drive.

### Premium Proactive

With the Enterprise-Wide Contract option, you get enhanced, proactive capabilities via a designated Service Delivery Manager, performance benchmarking and custom reporting, and planning and assessments. Our Proactive Maintenance option is designed to proactively maximize the availability and stability of your infrastructure. Includes a detailed system assessment and implementation of driver or firmware updates and upgrades for your server or storage systems. Remote Advisory option provides telephone and Internet access to technical expertise for specialized applications and solutions such as Microsoft<sup>®</sup> Exchange, Virtualization, and more.

## Additional service offerings

### Comprehensive Storage Training and Certification

Provides expertise for integrating Dell storage into an existing IT infrastructure. For company compliance, an advanced certification path is available for validating or maintaining skill sets.

### Backup and Recovery

Solutions that help ensure adequate procedures are in place to minimize or avoid data loss.

### Storage Consolidation

Our storage experts can analyze your existing infrastructure, operational practices, and technical readiness, and develop a detailed consolidation deployment plan that includes a validated and refined solution design.

To help you get the most from your Dell systems, visit [DELL.COM/Services](http://DELL.COM/Services). Services vary by region.

<sup>1</sup> For terms of service, please visit [www.dell.com/servicecontracts](http://www.dell.com/servicecontracts).

<sup>2</sup> The defective hard drive must still be covered by the hardware limited warranty.

Features	Dell™ PowerVault™ TL4000 Tape Library
Height	4U form factor Rack Mount 7.29" (185.2 mm)
Width	Rack Mount 17.6" (447.5 mm)
Length (Depth)	Rack Mount 31.9" (810 mm)
Weight	47 lbs. with one drive and no media
Orientation	Horizontal only
Configurations	Rack mount standard (desktop conversion kit included)
Supported Tape Drive Technologies	LTO-3-080, LTO-3, LTO-4-120, LTO-5-140
Bar Code Reader	Standard
Code Updates	Web and either host bus or RMU for drives Web and RMU only for library code updates
Slots	48
Drive Interface	iSCSI, SAS, or FC
User Interface	There are two user interfaces: <b>Operator Control Panel</b> Located on the front of the PV TL4000 tape library, the user can use an LCD panel to check system status, run diagnostics, view system logs, check and set configurations, verify drive operations, run an inventory, and manage the system. <b>Remote Web Management</b> The Web-based administration can be accessed via a 10/100 BaseT connection through any standard Web browser. The user can check system status, run diagnostics, view system logs, check and set configurations, verify drive operations, run an inventory, and manage the system. In addition, the user can upgrade the drive and library firmware via the RMU.
Configurations	1 or 2 LTO3-080 SCSI Full-Height Drives Up to four LTO3-080 6Gb SAS Half Height Drives Up to four LTO-4-120 6Gb SAS Half Height Drives Up to four LTO-4-120 FC8 Half Height Drives Up to four LTO-5-140 6Gb SAS Half Height Drives Up to four LTO-5-140 FC8 Half Height Drives Library Managed Encryption Available with LTO-4 and LTO-5 drives
Temperature	50° to 95°F, 10° to 35°C
Relative Humidity	15% RH to 80% RH (non-condensing)
Electrical Power	1.3 amps at 100V ac, 0.7 amps at 240V ac
Supported Backup Software	Computer Associate Arcserve, Symantec™ Backup Exec™, CommVault® Galaxy

Simplify your network at [Dell.com/TLSeries](http://Dell.com/TLSeries)

