

# Fast, Flexible, and Secure:

## LTO Ultrium 4 Tape Technology Clinches Dell PowerVault Lineup

Featuring a scalable industry-standard format, Dell™ PowerVault™ Linear Tape-Open Ultrium 4 (LTO-4) tape drives and libraries offer lots of room to grow, with outstanding data transfer rates, double-density native storage capacity, and enhanced data encryption capabilities.



Dell PowerVault LTO-4-120 tape drive

To keep pace with mounting storage demands, IT administrators must find cost-effective solutions for data archiving and disaster recovery that are flexible enough to meet evolving service-level agreements and strict regulatory requirements. Dell PowerVault tape drives and libraries based on the Linear Tape-Open Ultrium 4 (LTO-4) format offer a common ground for growth and stability, enhancing protection for mission-critical data while helping reduce operational and energy costs.

### Understanding the generation gap

Packaged in a small, energy-efficient footprint, LTO-4 Dell PowerVault tape products are designed to deliver drive-level data encryption, double-density native storage capacity, and 50 percent faster data transfer speed than previous-generation LTO-3 devices. As a result, PowerVault LTO-4-120 tape drives—either as stand-alone peripherals or integrated in PowerVault TL2000, TL4000, and ML6000 tape libraries—are well equipped to help data centers achieve performance and security unattainable with previous-generation tape technology.

Higher-capacity tape media allows more enterprise data to be stored on fewer tape cartridges, enabling more compact, cost-effective archiving than previous-generation tape technology. PowerVault LTO-4-120 tape drives are designed to deliver up to 800 GB of native physical space—double the specified native physical capacity of LTO-3 tape drives and four times the specified native physical capacity of LTO-2 tape drives—while keeping approximately the same form factor as previous-generation tape drives.

Accelerated data transfers help reduce the time required to conduct storage backups and data retrievals—all the better to support data-intensive applications and documents. PowerVault LTO-4 tape drives are designed to deliver outstanding native data transfer rates—up to 120 MB/sec, 50 percent faster than the specified rate for LTO-3 technology.

With business competition and regulatory penalties on the rise across many industries, the price to pay for lost or compromised data can be extremely high. LTO-4 technology enables an unprecedented level of data security with tested write-once, read-many (WORM) functionality and enhanced encryption capabilities. LTO-4 drive-level data encryption uses a secure, industry-standard cryptographic algorithm and high-speed encryption keys to help safeguard electronic data during the encoding, transport, and deciphering processes—without affecting the tape's throughput performance.


### Driving powerful, highly scalable storage solutions

The Dell PowerVault LTO-4 family enables the speed, flexibility, and security necessary to meet high-performance storage demands and help lower total cost of ownership. Besides top-flight native data transfer rates and outstanding native storage capacity, PowerVault LTO-4 products feature low power consumption and an idle mode for enhanced energy efficiency. PowerVault LTO-4 technology enables data interchangeability to ease implementation and help protect investments by reading and writing to LTO-3 tapes (non-encrypted) and reading LTO-2 tapes.

In addition, the PowerVault LTO-4-120 tape drive is outfitted with a 3 Gbps Serial Attached SCSI

(SAS) interface plus drive-level data encryption and portability—making this device well suited for state-of-the-art data storage security.

PowerVault TL2000 and PowerVault TL4000 tape libraries offer built-in LTO-4 performance and security features together with easy-to-use graphical wizards that help simplify bar-coding activities, speed tape backup automation, and implement reliable storage area network (SAN) connectivity. Both tape libraries enable cost-effective storage solutions for LAN backup and archiving: the PowerVault TL2000 offers up to 19.2 TB of native capacity, and the PowerVault TL4000 offers up to 38.4 TB of native capacity.

For versatile, world-class backup and archiving, the PowerVault ML6000 modular tape library family offers enterprises up to 321 TB of native capacity. Intelligent automation and intuitive diagnostic capabilities together with LTO-4 speed, capacity, and security enable the ultimate in tape storage performance, flexibility, and scalability—plus easy library customization, on-demand expansion, and quick problem resolution. 

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