



# Dell PowerVault tape automation

	PowerVault TL1000 tape autoloader	PowerVault TL2000	PowerVault TL4000
	Up to 54TB (native)	Up to 144TB (native)	Up to 288TB (native)
	Entry-level tape automation for large servers or small workgroups	Network backup or entry-level SAN backup	
<b>Features</b>			
Drive type	LTO-4, LTO-5, LTO-6, LTO-7	LTO-4, LTO-5, LTO-6, LTO-7	LTO-4, LTO-5, LTO-6, LTO-7
Number of drives	1	Up to 2	Up to 4
Number of cartridges	9	24	48
Import/export slots	1	1	3
Form factor	1U	2U	4U
Chassis	Desktop or rackmount	Rackmount (desktop conversion kit included)	
Media	LTO-4: LTO-2 (read only), LTO-3, LTO-3 WORM, LTO-4, LTO-4 WORM LTO-5: LTO-3 and LTO-3 WORM (read only), LTO-4, LTO-4 WORM, LTO-5, LTO-5 WORM LTO-6: LTO-4 and LTO-4 WORM (read only), LTO-5, LTO-5 WORM, LTO-6, LTO-6 WORM LTO-7: LTO-5 and LTO-5 WORM (read only), LTO-6, LTO-6 WORM, LTO-7, LTO-7 WORM		
Max native capacity <sup>1</sup>	Up to 54TB	Up to 144TB	Up to 288TB
Max native backup rate per drive <sup>2</sup>	LTO-4: 120MB/s, 432GB/hr LTO-5: 140MB/s, 504GB/hr LTO-6: 160MB/s, 576GB/hr LTO-7: 300MB/s, 1080GB/hr		
Interface	6Gb SAS	6Gb SAS, 8Gb/s FC, 1Gb iSCSI (LTO4, LTO5, and LTO6 only)	
Software supported	Dell™ NetVault Backup For other tape backup software, refer to the vendor site for support.		
Library-managed encryption	Available on PowerVault™ ML6000, PowerVault TL4000, PowerVault TL2000 configured with LTO-4 and later generations, and PowerVault TL1000 configured with LTO-6 and later generations (available at point of sale only for the TL1000)		
Included services	Limited Warranty <sup>3</sup> , 30-Day Getting Started Phone Support <sup>4</sup> , E-support, and Next Business Day On-Site Service <sup>5</sup>		

PowerVault ML6000 tape libraries						
Scalability to a maximum of 2.454PB (native) <sup>1</sup>						
Scalable SAN backup base models will scale to full 41U with addition of ML6000 EM (9U expansion modules)						
Features	ML6010	ML6020	ML6030	ML6000EM	32U (ML6030 + 1 ML6000 EM)	41U (ML6030 + 2 ML6000 EM)
Drive type	LTO-5, LTO-6, LTO-7					
Number of drives	Up to 2	Up to 6	Up to 10	Up to 4	Up to 14	Up to 18
Number of cartridges	41	133	225	46 or 92	317	409
Import/export slots	6	6, 12 or 18	6, 12, 18, 24 or 30	6	6, 12, 18, 24, 30, 36 or 42	6, 12, 18, 24, 30, 36, 42, 48 or 52
Form factor	5U	14U	23U	9U	32U	41U
Chassis	Rackmount					
Media	LTO-5: LTO-3 and LTO-3 WORM (read only), LTO-4, LTO-4 WORM, LTO-5, LTO-5 WORM LTO-6: LTO-4 and LTO-4 WORM (read only), LTO-5, LTO-5 WORM, LTO-6, LTO-6 WORM LTO-7: LTO-5 and LTO-5 WORM (read only), LTO-6, LTO-6 WORM, LTO-7, LTO-7 WORM					
Max native capacity <sup>1</sup>	246TB	798TB	1.35PB	552TB	1.092PB	2.454PB
Max native backup rate <sup>2</sup>	Up to 600MB/s, 2.15TB/hr	Up to 1800MB/s, 6.46TB/hr	Up to 3000MB/s, 10.8TB/hr	Up to 1200MB/s, 4.31TB/hr	Up to 4200MB/s, 15.11TB/hr	Up to 5400MB/s, 19.44TB/hr
Interface	6Gb SAS (LTO-5, LTO-6 only), 8Gb/s FC					
Software supported	Dell NetVault Backup For other tape backup software, refer to the vendor site for support.					
Library-managed encryption	Available on PowerVault ML6000, PowerVault TL4000 and PowerVault TL2000 using LTO-4 and later generations, and PowerVault TL1000 configured with LTO-6 and later generations (available at point of sale only for the TL1000)					
Included services	Limited Warranty <sup>3</sup> , 30-Day Getting Started Phone Support <sup>4</sup> , and Next Business Day On-Site Service <sup>5</sup>					

<sup>1</sup> GB means 1 billion bytes and TB means 1 trillion bytes. Actual capacity varies with preloaded material and operating environment and will be less.

<sup>2</sup> Actual performance is dependent on settings, user environment and applications.

<sup>3</sup> For a complete copy of our guarantees or limited warranties, please visit <http://www.dell.com/warranty> or write to Dell USA L.P., One Dell Way, Round Rock, Texas 78682, Attn: Warranties.

<sup>4</sup> Telephone support provides help with installation, optimization and configuration questions during the critical 30-day period after shipment of your systems.

<sup>5</sup> Service may be provided by a third party. Technician will be dispatched if necessary in parallel with phone-based troubleshooting for severity level 1 issues on systems with ProSupport Mission Critical or Same Day Response service. Technician will be dispatched if necessary following phone-based troubleshooting for all other severity levels and on-site response service levels. Repair time is measured from dispatch time of the on-site response service. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only.

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## Simplify Data Archive at [Dell.com/Storage](http://Dell.com/Storage)

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