



# Dell PowerVault Tape Automation

	PowerVault 124T Tape Autoloader				PowerVault TL2000	PowerVault TL4000
	up to 24TB (native)				up to 36TB (native)	up to 72 TB (native)
	Entry-level tape automation for large servers or small workgroups				Network backup or entry-level SAN backup	
Features						
Drive Type)	LTO-3	LTO-3-080	LTO-4	LTO-5	LTO-3-060, LTO-3, LTO-4 and LTO-5	LTO-3-060, LTO-3, LTO-4 and LTO-5
Number of Drives	1				1 or 2	Up to 4
Number of Cartridges	8 or 16				24	48
Import/Export Slots	0				1	3
Form Factor	2U				2U	4U
Chassis	Desktop or Rackmount				Rackmount (desktop conversion kit included)	
Media	LTO-1 (read only), LTO-2, LTO-3, LTO-3 WORM	LTO-1 (read only), LTO-2, LTO-3, LTO-3 WORM	LTO-2 (read only), LTO-3, LTO-3 WORM, LTO-4, LTO-4 WORM	LTO-3 and LTO-3 WORM (Read Only), LTO-4, LTO-4 WORM, LTO-5, LTO-5 WORM	LTO3 and LTO3-060: LTO-1 (Read Only), LTO-2, LTO-3, LTO-3 WORM LTO4:LTO-2 (Read Only), LTO-3, LTO-3 WORM, LTO-4, LTO-4 WORM LTO5:LTO-3 and LTO-3 WORM (Read Only), LTO-4, LTO-4 WORM, LTO-5, LTO-5 WORM	
Max Capacity <sup>1</sup>	Up to 6.4TB		Up to 12.8TB	Up to 24TB	Up to 36TB	Up to 72TB
Max Backup Rate <sup>2</sup>	Up to 80MB/sec 288GB/hr		120MB/sec 432GB/hr	140MB/sec 504GB/hr	LTO-3-080: 80MB/s, 288GB/hr LTO-3: 80MB/s, 288GB/hr LTO-4-120: 120MB/s, 432GB/hr LTO-5-140: 140MB/s, 504GB/hr	
Interface	Ultra 160 LVD	6Gb SAS			Ultra 160 LVD, 6Gb SAS, 8Gb/s FC, 1Gb iSCSI	
Software Supported	Support leading backup applications from Computer Associate Arcserve™, Symantec Backup Exec™, and CommVault Galaxy™					
Library Managed Encryption	Available on PowerVault ML6000, PowerVault TL4000, and PowerVault TL2000 configured with LTO-4 drive(s) and LTO-5 drives					
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 <sup>6</sup>						
Scalability to a maximum of 613.5TB (native) <sup>1</sup>						
Scalable SAN Backup Base models will scale to full 41U with addition of ML6000 <sup>6</sup> EM (9U expansion modules)						

Features	ML6010	ML6020	ML6030	ML6000EM	32U (ML6030 + 1 ML6000 EM)	41U (ML6030 + 2 ML6000 EM)
Drive Type	LTO-3, LTO-4, LTO-5					
Number of Drives	1 or 2	1 to 6	1 to 10	1 to 4	1 to 14	1 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	LTO3: LTO-1(Read Only), LTO-2, LTO-3, LTO-3 WORM LTO4: LTO-2(Read Only), LTO-3, LTO-3 WORM, LTO-4, LTO-4 WORM LTO5: LTO-3 and LTO-3 WORM (Read Only), LTO-4, LTO-4 WORM, LTO-5, LTO-5 WORM					
Max Capacity <sup>1</sup>	61.5TB	199.5TB	337.5TB	138TB	475.5TB	613.5TB
Max Backup Rate <sup>2</sup>	Up to 280MB/s, 1008GB/hr	Up to 840MB/s, 3024GB/hr	Up to 1,400MB/s, 5040GB/hr	Up to 560MB/s, 2016GB/hr	Up to 1960MB/s, 7056GB/hr	Up to 2520MB/s, 9072GB/hr
Interface	Ultra 160 LVD, 3Gb SAS, 6Gb SAS, 4Gb/s FC, 8Gb/s FC					
Software Supported	Dell™ Tape Backup Software: Symntec Backup Exec™, CommVault Galaxy™, Computer Associate Arcserve™					
Library Managed Encryption	Available on PowerVault ML6000, PowerVault TL4000, and powerVault TL2000 With LTO-4 drive(s) and LTO-5 drives)					
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.

<sup>6</sup> Yosemite is not available on the ML6000 control modules.

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