









Benefits

- High-performance, high-bandwidth allowing more than 12.8 GB/s aggregate transfer rate
- High-Availability provides assurance of continuous operation
- Active-Active Dual Controller with ALUA for performance and access flexibility
- 80 PLUS GOLD certified PSUs, Deliver power efficiency, and Energy Star Ready
- Advanced diagnostics and reporting with persistent error log
- Virtualization Ready
- Support massive capacity by cascading up to 9 J5000 12Gb or SAS/SATA JBOD Storage Expansions

Tech Highlights

- Quad 16 Gb FC ports per Controller provides maximum bandwidth
- 12 Gb SAS backend storage interface to support the fastest HDD/SSD
- Backward compatible to 8 Gb and 4 Gb on Fibre Channel interface, and to 6 Gb on SAS/SATA interface
- Conveniently accessible persistent error logging and HTML formatted Service Report
- Online Capacity Expansion allows Volume size to grow with ease
- Software Updates without disrupting operation
- Background Data Integrity Checking and Parity Rebuild
- Predictive Data Migration (PDM) minimizes maintenance requirement

VTrak E5000 Series

16Gb Fibre Channel to 12Gb SAS/SATA High-Availability Storage System for Big Data











Affordable Enterprise-level Storage

- Delivers an affordable high-performance Fibre Channel to SAS Storage solution with advanced enterprise level reliability and functionality.
- Four 16Gb Fibre Channels ports and Two 12Gb SAS port (SFF-8644) per controller for connecting Host and Storage Expansion, respectively. Perfect for applications requiring huge bandwidth.
- Redundant and Active-Active components of controllers, power supplies, and cooling units providing optimal data availability for any unforeseen circumstance.
- Full featured Enterprise-level Storage System to accommodate any size of business environment.

IT/Data Center Ready

- The ability to deploy 6/12 Gb SAS/SATA hard drives and SSDs in the E5000 Series.
- Efficient power supplies provide up to 90% power efficiency that improves TCO by conserving power, reducing heat output and improving cooling costs.
- Flash arrays enable optimized speed for key enterprise applications that need High-speed transfer rate and reduced latency.
- Intel multi-cores processors allows saturation of line rate speeds for both 16Gb Fibre Channel Front-end and 12Gb SAS Backend interfaces.
- Delivers high capacity for archiving and backup
- Transport feature allows portability to move and/or store Petabytes from one location to another with data intact

Virtualization Ready

- Ready to confront any challenge in today's virtualized IT environment, the VTrak E5000 Series is certified with VMware vSphere, Citrix XenServer, Microsoft Hyper-V, Veeam, and DataCore SANsymphony.
- Virtualization enables dynamic storage allocations such that physical layers of storage can be utilized most effectively. As virtual machines continue to increase with more virtualized deployments, 16Gb Fibre Channel performance delivers the faster bandwidth needed for growing infrastructures.





VTrak E5000 Specifications

	2U/24 Bay	2U/12 Bay	3U/16 Bay	4U/24 Bay	
Model and Number					
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Drive Cupport	E5320f	E5300f	E5600f	E5800f	
Drive Support	Up to 24 2.5" drives • 6/12 Gb SAS, 6 Gb SATA'H	Up to 12 3.5" drives DD and SSD and SATA drives simultaneous	Up to 16 3.5" drives	Up to 24 3.5" drives	
External I/O Ports			s for Host interface and two 1	2 Gh SAS standard Mini SAS	
			hernet and RS232 for Manage		
Operational Features		0 1 /	0		
RAID Levels	0, 1 , 5, 6, 10, 50, 60				
RAID Stripe Size Support	64K, 128K, 256K, 512K and 1MB				
Hot Spares	Global or dedicated with revertible option				
Max LUNs per Subsystem	1024				
Max Luns per array	32				
Advanced Storage	Advanced Cache Mirroring over PCIe Gen3 PerfectFlash - Non-Disruptive Software Update				
Features	 Simple, drag-and-drop LU 				
	Asymmetric LUN Unit Access (ALUA)		USB Service Log LDAD Support for control user management		
	Volume Copy		LDAP Support for central user management		
Background Activities			Disk SMART Polling		
	Background Synchronization		Online Capacity Expansion (OCE)		
	Foreground Initialization		RAID Level Migration (RLM)		
			UPS Monitoring Secture risk task scheduler for background activities		
DerfectDALD Feetures	Redundancy Check		Feature rich task scheduler for background activities		
PerfectRAID Features	Predictive Data Migration (PDM)		Disk Slot Power Control		
	Intelligent Bad Sector Rer	11 0	Read/Write Check Table		
	SMART Error Handling Write Hole Table				
GreenRAID Features	NVRAM Error Logging Four levels of advanced power management disk drive (MAID) support				
GreenikAiD reatures	Efficient 80Plus Certified power supplies				
System Management	• Efficient sopius certined	sower supplies			
Management Interfaces					
	• Command Line Interface (CLI) or Command Line Utility (Serial Port or Ethernet via Telnet, SSH)				
	Third Party Management Support via SNMP, CIM				
Supported OSs	Windows Server 2008, 2012, OS X 10.x, RHEL 6.5, 6.6, 6.7, and 7.2, SLES 11, 11 SP4, and 12 SP1				
	VMware ESXi 6.0, VEEAM Backup & Replication 9.0, Citrix Server 7.0, Data Core SANSymphony 10.0 PSP6,				
Software Certification	Windows, Arcserve UDP v6.0.3792 Update 3 Build 776, XSAN 5, StorNext v5.3				
Mechanical Specifications					
Voltage	100240 Vac AutoRanging				
Current (Maximum)	9A @ 100 Vac; 4A @ 240 Vac >80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range				
Power Conversion	>80% @ 110V (>20% load),	>80% @ 240V (>20% load) I	emperature Range		
Efficiency	Operational: 5° to 35°C No	n-Operational: -40° to 60°C			
Temperature Range	Operational: 5° to 35°C, Non-Operational: -40° to 60°C Operational: 20% to 80% (Non-Condensing), NonOperational: ~ 95% (Non-Condensing)				
Humidity	< 60dB. 25C				
Acoustic Noise Levels	Operational: 5G, 11 ms duration, Non-Operational: 30G, 11ms duration				
Shock	Operational: 0.2G, 5 to 500Hz (sine wave) ; 0.41G, 3-10-200-500Hz (Random) ,				
Vibration	Non-Operational: 1G, 5 to 500Hz (sine wave) ; 2.256G, 5-80-350-500Hz (Random)				
Safaty and Emission	EMC Class A: CE, FCC, VCCI, BSMI, RCM				
Safety and Emission Certification	Safety: IEEE CB, UL/cUL and TUV				
Environmental Standards	RoHS, GreenPC, WEEE				
Power Supply	Efficient 80PLUS GOLD Certified redundant PSU				
Dimensions (H x W x D)			131mm x 446.7mm x 507mm	174 4mm x 446 7mm x 507m	
	(3.5" x 17.6" x 16.5")	(3.5" x 17.6" x 19.96")	(5.2" x 17.6" x 19.96")	(6.87" x 17.6" x 19.96")	
Weight		18.9Kg(41.7 lbs) w/o drives	23Kg(50.7 lbs) w/o drives	24.8Kg(54.7 lbs) w/o drives	
vvcigili	20.5Kg (45.2 lbs) w/ drives	26.8Kg (59.1 lbs) w/ drives	33.4Kg (73.6 lbs) w/ drives	40.5Kg (89.2 lbs) w/ drives	
Warranty and Support	20.516 (+5.2 103) W/ 011VE3	20.016 (00.1103) W/ 011763	55. Mg (75.6 153) W/ 011765	10.5Kg (05.2 103) W/ 011VC3	
Warranty	3-year full system limited w	arranty, optional extended y	varranty, onsite parts replacen	nent program	
Support	3-year full system limited warranty, optional extended warranty, onsite parts replacement program 24/7 e-mail and phone support, 24/7 access to PROMISE site-drivers, firmware, and compatibility list				
SATA drives require a SAS-SATA adapt					

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