



DataCore s o f t w a r e READY



## **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

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16Gb Fibre Channel to 12Gb SAS/SATA

High-Availability Storage System for Big Data

CITRIX

ready



## Affordable Enterprise-level Storage

• Delivers an affordable high-performance Fibre Channel to SAS Storage solution with advanced enterprise level reliability and functionality.

Windows Server

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- 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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	E5320f	E5300f	E5600f	E5800f	
Drive Support	Up to 24 2.5" drives	Up to 12 3.5" drives	Up to 16 3.5" drives	Up to 24 3.5" drives	
	• 6/12 Gb SAS, 6 Gb SATA' H	DD and SSD			
	<ul> <li>Supports any mix of SAS and SATA drives simultaneously in the same enclosure</li> </ul>				
External I/O Ports	Each SBB2.0 RAID Controller has four 16 Gb FC SFP ports for Host interface and two 12 Gb SAS standard Mini SAS HD ports (SFF-8644) for Storage Expansion, RJ45 1Gb Ethernet and RS232 for Management ports				
Operational Features	HD ports (SFF-8644) for Sto	rage Expansion, RJ45 1Gb Et	hernet and RS232 for Manage	ement ports	
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			<ul> <li>I/O performance &amp; power m</li> </ul>	nonitoring tools	
	Asymmetric LUN Unit Access (ALUA)		USB Service Log		
	Volume Copy		LDAP Support for central user management		
Background Activities	Media Patrol		Disk SMART Polling     Osting     Osting		
	Background Synchronization		Online Capacity Expansion (OCE)		
	<ul> <li>Foreground Initialization</li> <li>Rebuild</li> </ul>		<ul> <li>RAID Level Migration (RLM)</li> <li>UPS Monitoring</li> </ul>		
	Redundancy Check		<ul> <li>Feature rich task scheduler for background activities</li> </ul>		
PerfectRAID Features	Predictive Data Migration (PDM)		Disk Slot Power Control		
	Intelligent Bad Sector Remapping		Read/Write Check Table		
			Write Hole Table		
	NVRAM Error Logging				
GreenRAID Features	<ul> <li>Four levels of advanced power management disk drive (MAID) support</li> <li>Efficient 80Plus Certified power supplies</li> </ul>				
-					
System Management					
Management Interfaces	Web Based management using WebPAM PROe (Ethernet)				
	Command Line Interface (CLI)     Third Party Management Support via SNMAP CINA				
Supported OSs		• Third Party Management Support via SNMP, CIM 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					
Mechanical Specifications		0.5752 Opuate 5 Build 770,	No/11 5, 5to110ckt V5.5		
Voltage	100240 Vac AutoRanging				
Current (Maximum)	9A @ 100 Vac; 4A @ 240 Vac				
Power Conversion	>80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range				
Efficiency	Operational: 5º to 25°C No.	- 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 Shock	Operational: 5G, 11 ms duration, Non-Operational: 30G, 11ms duration				
Vibration	Operational: 0.2G, 5 to 500Hz (sine wave) ; 0.41G, 3-10-200-500Hz (Random) ,				
VINICUUT		600Hz (sine wave) ; 2.256G, 5			
Safety and Emission	EMC Class A: CE, FCC, VCCI, BSMI, RCM				
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)		88mm x 446.7mm x 507mm		174.4mm x 446.7mm x 507mr	
	(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	16.2Kg(35.7 lbs) w/o drives	18.9Kg(41.7 lbs) w/o drives	23Kg(50.7 lbs) w/o drives	24.8Kg(54.7 lbs) w/o drives	
	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	2 mean full another that I				
Warranty	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-drives, firmware, and compatibility list				
Support	24/7 11 1		E 11 11 11 11 11	AND ADDRESS OF A	

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