





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







Windows Server

arcserve

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				
	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 HDD and SSD			
External I/O Ports	• Supports any mix of SAS and SATA drives simultaneously in the same enclosure Each SBB2.0 RAID Controller has four 16 Gb FC SFP ports for Host interface and two 12 Gb SAS standard Mini SAS			
Externally of onts	HD ports (SFF-8644) for Storage Expansion, RJ45 1Gb Ethernet and RS232 for Management ports			
Operational Features			inemet and N3232101 Manage	
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 re			
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	N Masking and Mapping	• I/O performance & power m	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	
	Background Synchronization		Online Capacity Expansion (OCE)	
	Foreground Initialization		RAID Level Migration (RLM)	
	Rebuild		UPS Monitoring	
PerfectRAID Features	Redundancy Check Development (DDM)		Feature rich task scheduler for background activities	
Perfectival Peacures	Predictive Data Migration (PDM)		Disk Slot Power Control	
	 Intelligent Bad Sector Remapping SMART Error Handling 		Read/Write Check Table	
	NVRAM Error Logging		Write Hole Table	
GreenRAID Features	Four levels of advanced power management disk drive (MAID) support			
Efficient 80Plus Certified power supplies				
System Management	Effective of this certified	Jower supplies		
Management Interfaces • Web Based management using WebPAM PROe (Ethernet)				
-	• 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	400 240 Mar Auto Danain			
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),	280% @ 240V (220% 10au) 1	emperature kange	
Efficiency Temperature Range	Operational: 5° to 35°C, Non-Operational: -40° to 60°C			
Humidity	Operational: 20% to 80% (Non-Condensing), NonOperational: ~ 95% (Non-Condensing)			
Acoustic Noise Levels	<60dB, 25C			
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) ,			
	Non-Operational: 1G, 5 to 500Hz (sine wave) ; 2.256G, 5-80-350-500Hz (Random)			
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	131mm x 446.7mm x 507mm	174.4mm x 446.7mm x 507mi
	(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		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				
Warranty	3-year full system limited w	arranty, optional extended y	varranty, onsite parts replacen	nent program
Support			E site-drives, firmware, and co	

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