VTrak All Flash Array EFA5310

Transform your business and reduce your infrastructure cost with enterprise storage designed for high performance, low latency, high bandwidth, non-stop availability, and enterprise resiliency.

Highlights

Performance & Scalability

- Ultra-high performance for business critical applications
- High-bandwidth - more than 12.8GB/s transfer rate
- Low sub millisecond latency
- Scalable up to 240 drives
- 550K 4K IOPS with ~ 1ms

High Availability & Resiliency

- Full redundant for non-stop mission critical applications
- Active-Active Dual Controller with ALUA support for access flexibility
- Non-disruptive firmware/software updates
- Background data integrity scrub with parity rebuild
- Predictive Data Migration (PDM) to minimizes maintenance
- User data cache is protected during power outage

Power & Cooling

- 80 PLUS GOLD certified power supply and Energy Star Ready
- Only two Rack Units (2RU)

Enterprise Use Cases

- 4K/8K Rich Media Workload
- Transactional Workloads, Databases, OLTP, Analytics
- Latency sensitive applications
- Real-time Big Data Analytics
- Virtualized Server and VDI
- High Bandwidth applications
- Backup and DR target

Accelerate Your Business

VTrak All Flash Arrays are built from the ground up and configured to maximize performance. EFA5310 low latency dramatically lowers Server CPU I/O wait times which, results in 5 to 10x application acceleration. The array's large I/O profile allows a user to achieve new levels of workload consolidation on the same platform.

Enterprise Class Storage

VTrak All Flash Arrays are optimized for high bandwidth and an extremely large data ingest rate. This makes it perfect storage platform for rich media, IT, backup, and running multiple mixed workloads. Non-disruptive firmware/software upgrades in EFA5310 provide non-stop system availability for enterprise applications.

Low Total Cost of Ownership

EFA5310 provides users affordable All Flash Arrays (AFA) with a low TCO, improved application support, seamless integration with their ecosystem, and simplified management. Reduction in CPU I/O wait time results in over 50% reduction in Server core and CPU core based software license requirements. On average users attain over a 90% decrease in power and cooling requirements.

Simplified Consumption Model

EFA5310's all-inclusive pricing makes storage consumption simple with a predictable cost. By including hardware, software and 3 years* of Next Business Day service on the array, the EFA5310 offers an exceptional value compared to other vendors' AFA pricing.

Promise EFA5310 Arrays

EFA comes in 1.9TB partially populated up to 92TB fully populated, with option of SAS or SATA SSD. Massive scaling capability, where users can add up to 9 expansion enclosures EFA5310 system.

Scaling & Capacity	
Capacity	1.9TB partially populated up to 92TB
Drives Capacity	2.5" SAS or SATA SSD with capacity - 480G, 960GB, 1.92TB, 3.84TB
Capacity Expansion	Online Capacity/Volume Expansion up-to 9 JBOD's
Models	See Promise product website

Operational/Data Services		
Max LUNs	1024 per subsystem, 32 per array	
Advanced Storage Features	• Online Capacity Expansion • RAID Level Migration (RLM) • Asymmetric LUN Unit Access (ALUA) • LDAP for central user management	• Advanced Cache Mirroring over PCIe Gen3 • Drag-and-drop LUN Masking and Mapping • USB Service Log • Volume Copy

Connectivity		
Protocol	16Gb Fibre Channel (backward comptatible with 4/8Gb) Host Connectivity 12Gb SAS back end for expansion	
Connectivity	2 x 4 16Gb FC SFP ports	2 x 2 12Gb SAS std/Mini SAS (SFF-8644)
Management Ports	2 x 1 RJ45 1Gb Ethernet and RS232	

Performance	
IOPS	550,000 IOPS with sub millisecond latency
Bandwidth	12.8 GB/s

High Availability		
RAID Levels/Stripe	0, 1, 5, 6, 10, 50, 60; RAID Stripe Support 64K, 128K, 256K, 512K and 1MB	
Hot Spares	Global or dedicated with revertible option	
Background Scrub	• Media Patrol & Redundancy Check • Background Synchronization • Foreground Initialization	• Partial Rebuild • Task scheduler for background activities
Perfect Data RAID	• Predictive Data Migration (PDM) • Intelligent Bad Sector Remapping • NVRAM Error Logging	• Drive Power Management (MAID) • Read/Write Check Table • SMART Error Handling and Write Hole Table

Ecosystem Integration	
Supported OSs	Windows Server 2008, 2012, OS X 10.x, RHEL 6.5 to 6.7, 7.2, SLES 11, 11 SP4, and 12 SP1
Certifications	VMware ESXi 6.0, VEEAM Backup & Replica on 9.0, Citrix Server 7.0, Data Core SANSymphony 10.0 PSP6, Windows, Arcserve UDP v6.0.3792 Update 3 Build 776, XSAN 5, StorNext v5.3

Management Interface	
Interface	Web Based management using WebPAM PROe, CLI, SSH, SNMP

Physical/Environmental	
Power	Voltage: 100--240 Vac Auto--Ranging Current: 9A @ 100 Vac; 4A @ 240 Vac
Power Efficiency	>80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range, 80Plus Certified PSU
Temperature Range	Operational: 5° to 35°C, Non-Operational: -40° to 60°C
Humidity	Operational: 20% to 80%, Non--Operational: ~ 95% (Non-Condensing)
Noise Levels & Shock	< 60dB, 25C, 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)
Regulatory/Safety	EMC Class A: CE, FCC, VCCI, BSMI, RCM Safety: IEEE CB, UL/cUL and TUV , RoHS, GreenPC, WEEE
Dimensions	2 Rack Unit, 88mm x 446.7mm x 420mm (3.5" x 17.6" x 16.5")
Weight	16.2Kg(35.7 lbs.) w/o drives 20.5Kg (45.2 lbs.) w/ drives

Warranty	
Warranty	3-year full system limited warranty* including Promise PSP, optional extended warranty
Support	24/7 e-mail and phone support, 24/7 access to PROMISE site-drives and firmware

* warranty of SSD covered for 3 years or maximum SSD endurance (whichever comes first)

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