Promise All Flash Array EFA5310

Highlights

Performance & Scalability

- Ultra-high performance for business critical applications
- High-bandwidth - more than ~13 GB/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
- NDU firmware upgrade
- Background data Integrity scrub with parity rebuild
- Predictive Data Migration (PDM) to minimizes maintenance
- User data cache is protected during power outage

Power & Cooling Savings

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

High Availability & Resiliency

- 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

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

Accelerate Your Business
Promise All Flash Arrays are built from the ground up and configured to maximize performance. EFA 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
Promise 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. Fully redundant and non-disruptively upgradeable firmware in EFA provides non-stop system availability for enterprise applications.

Low Total Cost of Ownership
EFA5310 provides users affordable 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 three years of Next Business Day service on the array, the EFA offers an exceptional value compared to other vendors' AFA pricing.

Promise EFA5310 Arrays
EFA comes in four capacity tiers to start - 11, 22, 46, and 92 TB. Users can add expansion EFA shelves in increments of 11, 22, 46, and 92 TB.

Models and Scaling		
Models & Capacity	EFA5310FDNS1 to EFA5310FDNS4 with capacity 11.3, 22.5, 46, and 92.1 TB	
Drives Capacity	24 2.5" SAS SSD with capacity - 480G, 960GB, 1.92TB, 3.84TB	
Capacity Expansion	Online Capacity/Volume Expansion up-to 9 JBOD's	
iOperational/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
Host Connectivity		
Protocol	FC Block with 16Gb FC for host (backward compatible with 4/8Gb)	
Connectivity	2 x 4 16Gb FC SFP ports for Host	2 x 2 12Gb SAS std/Mini SAS (SFF-8644) for Exp
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 and Support		
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	