



Highlights

Performance & Scalability

- Ultra-high performance for business critical applications
- High-bandwidth with more than ~12.8 GB/s transfer rate
- Low Sub- millisecond latency
- Scalability up-to 1 PB+

High Availability & Resiliency

- Full redundancy for non-stop mission critical applications
- Active-Active Dual Controller with ALUA for access flexibility
- Non-disruptively upgradable
- Background data Integrity scrub with parity rebuild
- Predictive Data Migration (PDM) to minimizes maintenance

Power & Cooling Savings

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

Applications

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

Promise All Flash Array EFA5310

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

Simply Accelerate Your Business

Promise All Flash Arrays are built from the ground up and optimized to maximize the performance and low latency using enterprise class flash media. EFA5310 low latency dramatically lowers Server CPU I/O wait times which results in 5 to 10X application acceleration. EFA5310 large I/O profile allows user to achieve new levels of workload consolidation on same platform.

Enterprise Data Center Storage

Promise All Flash Arrays are built for high bandwidth and extremely large data ingest rate. Large ingest rate makes it perfect storage platform for rich media, backup target, and running multiple mixed workloads. Every thing redundant and non-disruptively upgradeable components in AFA provides non-stop system availability for user enterprise applications.

Low Total Cost of Ownership

EFA5310 provides users affordable AFA with a low TCO, improved application support, seamless integration to 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 sees over 90% reductions in power and cooling requirement.

Simplified Consumption Model

EFA5310 all-inclusive solution pricing makes storage consumption simple at predictable cost. Promise EFA5310 all-inclusive price goes beyond other vendors AFA pricing by including hardware, software and three year of Next Business Day service on the array.

Promise EFA5310 Arrays

EFA5310 comes in four capacity tiers to start with - 11, 22, 46, and 92 TB. Users can add expansion AFA shelves in steps of 11, 22, 46, 92 TB.

To learn more about how Promise EFA5310 can transform Promise representative or visit us at <http://www.promise.com>

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 13 JOBD's	
Operational/Data Services		
Max LUNs	1024 per subsystem, 32 per arrays	
Advanced Storage Features	<ul style="list-style-type: none">• Online Capacity Expansion• Non-Disruptive Software Update• Asymmetric LUN Unit Access (ALUA)• LDAP for central user management	<ul style="list-style-type: none">• 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 6/8Gb)	
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		
Bandwidth	12.8 Gb/s	
Latency	250 microsecond minimum	
High Availability		
RAID Levels/Stripe	0, 1, 5, 6, 10, 50, 60; Raid Strip Support 64K, 128K, 256K, 512K and 1MB	
Hot Spares	Global or dedicated with reversible option	
Background Scrub	<ul style="list-style-type: none">• Media Patrol & Redundancy Check• Background Synchronization• RAID Level Migration (RLM)	<ul style="list-style-type: none">• Foreground Initialization• Partial Rebuild• Task scheduler for background activities
Perfect Data RAID	<ul style="list-style-type: none">• Predictive Data Migration (PDM)• Intelligent Bad Sector Remapping• NVRAM Error Logging	<ul style="list-style-type: none">• Disk Slot Power Control• 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, Telnet, SSH, SNMP, CIM	
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, optional extended warranty, onsite parts replacement	
Support	24/7 e-mail and phone support, 24/7 access to PROMISE site-drives and firmware	