4U Flash Storage Array (FSAn-4R)

The high-performance, field-ready FSAn-4R (Ruggedized) NVMe All-Flash Array provides a new level of performance for applications such as real-time HPC, high-speed data recording, analytics and big data. The storage system is used for acceleration of mission-critical, high-performance databases, Hadoop clusters and HPC applications with large data sets. The FSAn-4R can be deployed in harsh environments such as broadcast trucks, ground stations and surveillance aircraft. It provides a quantum leap in performance and application flexibility by integrating the highest performance PCIe NVMe flash with PCIe 3.0 x8 lanes for double the bandwidth of today's 2.5" NVMe drives. In addition, it includes features such Follow Me technology to allow RAID volumes to be hot swapped and migrated across systems using the four, front-loadable, removable data canisters. Each canister has a capacity of up to 50TB and weighs under 6.5 lbs.

Features

- 4U MIL-STD ruggedized system
- Supports high-density PCIe NVMe flash, up to 256 TB raw (200 TB usable)
- Four lightweight removable data canisters with capacities up to 50TB
- Each data canister weighs less than 6.5lbs
- Supports up to 5 million IOPS
- Provides up to 30 GB/second throughput
- Supports four 100Gb/s EDR Infiniband, 100Gb/s Ethernet or 32GbFC interfaces
- Supports iSCSI, FC and SRP protocols
- IPMI system management
- Supports OSS ION Accelerator™ software

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Specifications

Dimensions	7"H x 17"W (19" rackmount) x 24"D
System Weight	76lbs
Form Factor	4U rack mount, 7"H x 17"W (19" rack mount) x 24" D
System Usable Capacity*	Up to 200TB PCIe NVMe flash
Data Canister Capacity	0TB, 25TB or 50TB
Data Canister Weight	2.5, 4.6 or 6.5lbs
Ancillary Drives	Up to 6 x 2.5" SATA SSDs, front loaded, hot-swap capable
Controller	Dual Intel Xeon™ E5 2600-V4
Software	OSS ION Accelerator embedded on DOM Other software options available (such as read-only Operating Systems)
Chassis	Ruggedized Aluminum
Power	Rear Power Supply Input: 100-250VAC (47-63 or 400Hz) or 200-370VDC 2+1, hot-swap power system up to 1600W
LEDs	Front Status LEDs displaying all SSD drive activity
System Monitoring	IPMI system monitoring capabilities
Environmental Temperature	Operating: 0°C to 35°C Storage (non-operating): -40°C to 71°C -500 to 10,000ft Altitude with rapid decompression
Environmental Humidity	Operating: 5% to 95% non-condensing Storage (non-operating): 5% to 100% condensing, after drying
Shock	Transport (non-operating): ±10g, 11msec, half-sine pulse, 3 shocks per axis each direction
Vibration	Operational: 5-2000 Hz, .00004-.015 g2/Hz Non-Operational: 5-2000 HZ, .00015-.06 g2/Hz Transportation in optional transport case: 15-2000 Hz, .01-.3 g2/Hz
Standards	Tested to MIL-STD-810F, MIL-STD-461E, MIL-STD-464A, MIL-STD-704E, conformal coated

* Usable capacity refers to the approximation of the storage capacity that users can have. The accurate usable capacity may vary depending on software configurations and other factors.