



# SFA200X2/SFA400X2

## WORKLOAD ACCELERATING NVME STORAGE

### COMMON USE CASES

The flexibility and capabilities of the SFA NVMe platforms lend themselves to a wide variety of applications:

- Artificial Intelligence
- Analytics
- Deep Learning
- Content Distribution
- High IOPs Telemetry

DDN Storage Fusion Architecture® (SFA®) appliances are purpose-built to deliver scalable flash performance and capacity to flexibly meet your changing business demands.

The SFA NVMe platforms deliver 100% NVMe storage with multiple high-speed connectivity options. At up to 90GB/s, the 2U SFA NVMe platforms are the fastest storage solutions in the industry and are able to deliver up to 24 NVMe SSDs in a minimum form factor. Built with 3<sup>rd</sup> Gen Intel® Xeon® Scalable processors, this extreme level of performance density makes the SFA NVMe platforms ideal for data centers with limited space and requiring rock-solid high-performance flash in a scale-out architecture. Start with a single enclosure and scale limitlessly to meet file system or block requirements.

### ▶ BLINDING PERFORMANCE THAT SCALES ON DEMAND

Whether you are accelerating an analytics workload, reducing latencies for tough NoSQL databases, or beginning a Deep Learning project with modest training sets, the SFA NVMe platforms are ideal as a cost-effective building blocks. Designed to help you get the most out of your investment, the platform has an internal switch fabric with up to 288 lanes of PCIe Gen 4, plus up to 64 lanes providing client connectivity. SFA400NVX2 can add 16x x4 ports (64 lanes) of SAS connectivity, providing hybrid expansion capability.

### ▶ SMALL, YET POWERFUL FLEXIBILITY

SFA NVMe platforms are available as block storage appliances and integrated high-performance file appliances. DDN's EXAScaler® file system enable the SFA NVMe storage building block model to scale-out the parallel file name space with maximal efficiency. Built, deployed, and supported by the experts in data intensive workloads, these appliances deliver the ultimate application and workload performance by fusing the advantages of DDN's SFAOS with industry leading parallel file systems.

## ► TECHNICAL SPECIFICATIONS



### SFA200NVX2E®

### SFA400NVX2E®

<b>SYSTEM FEATURES</b>	Active/Active storage controllers DeClustered RAID (DCR) supports erasure coding schemas: RAID 6 8+2, 4+2; RAID 5 8+1, 4+1; RAID 1 1+1	
<b>PERFORMANCE</b>	Sequential read performance up to 48GB/s Sequential write performance up to 38GB/s Up to 1.5M IOPs	Sequential read performance up to 90GB/s Sequential write performance up to 65GB/s Up to 3M IOPs
<b>CPUS PER APPLIANCE</b>	2x 3 <sup>rd</sup> Gen Intel® Xeon® Scalable processors	4x 3 <sup>rd</sup> Gen Intel® Xeon® Scalable processors
<b>CONTROLLER HOST PORTS PER APPLIANCE</b>	4x HDR/HDR100 or 100/200GbE	8x HDR/HDR100 or 100/200GbE
<b>DRIVE SUPPORT</b>	24 x 2.5" dual port, hot-swappable NVMe	24 x 2.5" dual port, hot-swappable NVMe Option to add x4 90-bay SAS enclosures
<b>STANDARD SOFTWARE FEATURES</b>	LUN mapping and masking, intelligent write striping, read QoS, port zoning detection, data integrity check/correction, interface options (SSH to CLI, web-based GUI, Python API), state change messages (via e-mail, SNMP trap and syslog).	
<b>AVAILABLE FILE SYSTEM APPLIANCES</b>	EXAScaler ES200NVX2	EXAScaler ES400NVX2
<b>PHYSICAL AND ENVIRONMENTAL ATTRIBUTES</b>	<p><b>Dimensions</b> Height: 2RU rack mount 3.5" (89 mm) Width: 19" rack (482.6 mm) Depth: 33.5" (850 mm) without bezel</p> <p><b>Power/Cooling</b> Input Voltage: 200-240V 50/60 Hz Power Supplies: 2 hot swappable, redundant, C-20 inlet</p> <p><b>Environment</b> Op Temp, Sea Level: 10-35 degC; Op Temp, 3000m: 10-28 degC; 20%-80% humidity range</p> <p><b>Weights</b> 80 lbs/36 kg (empty); 90 lbs/41 kg (max)</p>	<p><b>Dimensions</b> Height: 2RU rack mount 3.5" (89 mm) Width: 19" rack (482.6 mm) Depth: 33.5" (850 mm) without bezel</p> <p><b>Power/Cooling</b> Input Voltage: 200-240V 50/60 Hz Power Supplies: 2 hot swappable, redundant, C-20 inlet</p> <p><b>Environment</b> Op Temp, Sea Level: 10-35 degC; Op Temp, 3000m: 10-28 degC; 20%-80% humidity range</p> <p><b>Weights</b> 80 lbs/36 kg (empty); 90 lbs/41 kg (max)</p>
<b>SAFETY</b>	Agency Certifications UL, cUL, CE, FCC	Agency Certifications UL, cUL, CE, FCC

### ABOUT DDN

DataDirect Networks (DDN) is the world's leading big data storage supplier to data-intensive, global organizations. DDN has designed, developed, deployed, and optimized systems, software, and solutions that enable enterprises, service providers, research facilities, and government agencies to generate more value and to accelerate time to insight from their data and information, on premise and in the cloud.

Product Specifications Subject to Change Without Notification

\*X-variant is HDR100 (releases begin Dec 2019), non-X remains EDR

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