



QLC NVME-OF™ ENCLOSURE HIGH-CAPACITY FLASH

DDN SKUs

- » SE2420-EBOD

ENCLOSURE FORM FACTOR

- » 2U, Conforms to EIA-310-D

FLASH DRIVE SUPPORT

- » 24x QLC U.2 NVMe
- » 15.36 TB, 30.72 TB, 61.44 TB

I/O MODULES

- » 2x Ethernet; 12x QSFP
28/56 ports
- » 6x ports on each I/O module
- » 2 I/O Modules, with 6x ports
on each I/O module

DDN SE2420

DDN SE2420 supports 24 NVMe devices; up to 1.4PB in 2U

Unlock the full potential of your data with DDN's QLC backed solutions with industry leading performance. Whether you prioritize high-bandwidth throughput, IOPS, or low latency, the capacity expansion enabled by ES400NVX2 systems coupled with SE2420 enclosure with QLC is perfect for AI, machine learning, and real-time applications.

The EXAScaler parallel file system with data compression capabilities and high capacity QLC storage drives a dramatic reduction in the total cost of ownership through reduced data center components, power consumption and management costs.

ES400NVX2 systems with QLC storage in SE2420 enclosures address performance, endurance and implementation complexity challenges, while enabling unmatched scale-out performance with architectural simplicity.

With up to 1.4 PB QLC (raw) per 2U enclosure, a single rack can easily fit 20 PB of QLC, providing the best value per flash capacity, while also delivering up to 21 million random read IOPS in a single rack. A compact configuration can deliver up to 90 GB/s read bandwidth, and 70 GB/s write bandwidth; a full rack can deliver up to 630 GB/s read bandwidth and 490 GB/s write bandwidth.

That's more than 10x faster writes, 10x faster performance/watt, and 10x faster performance/RU than other QLC systems.

► TECHNICAL SPECIFICATIONS



SE2420 ENCLOSURE

SYSTEM DETAILS		
DRIVE SLOTS	24 U.2 form factor	
IO MODULES	12x QSFP 28/56 ports; 6 ports on each of the two I/O modules	
HEIGHT	2U rack mount (87mm)	
WIDTH	450mm (17.75"; EIA-310 19" rackmount)	
DEPTH	597mm (23.5" ; without bezel)	
WEIGHT (WITHOUT DRIVES)	22.9 kg (50.5 lbs)	
WEIGHT (WITH 24 DRIVES)	29.6 kg (65.3 lbs)	
NOTIFICATIONS & MONITORING		
ENCLOSURE MANAGEMENT	In-band	
LCD DISPLAY	Enclosure Number Display	
LED INDICATORS	Chassis: Power, Fault, Location; Drive: Activity, Fault; IOM: Power, Fault, Link, Activity	
SAFETY/REGULATORY	CSA, EMI, FCC Class A, CE, CCC, TUV-GS, CB, CE, VCCI	
POWER & COOLING		
POWER SUPPLIES	2 PSUs (N+1)	
PSU RATINGS	1600W Max	
INPUT POWER	200-240 VAC – 50/60 Hz	
EFFICIENCY	80 Plus® Platinum compliant	
COOLING MODULES	6 fan modules per I/O module	
ENVIRONMENTAL	OPERATING °	NON-OPERATING °
TEMPERATURE	10°C TO 35°C (50°F TO 95°F) Derate 1°C per 300m above 950m altitude	-40°C TO 70°C (-40°F TO 158°F)
ALTITUDE	3,048m (10,000 ft) max	10,668m (35,000 ft) max
RELATIVE HUMIDITY <small>(non-condensing; ASHRAE A2)</small>	8% to 80%	

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 solution 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.

© 2023 DataDirect Networks. All Rights Reserved. DataDirect Networks, the DataDirect Networks logo, DDN, SFA and Storage Fusion Architecture are trademarks of DataDirect Networks. Other Names and Brands May Be Claimed as the Property of Others.