

ES2000

A Revolutionary NVMe-oF System to Redefine Next-Generation Storage



Flexible Storage Configurations

With a midplane-less design and drive carrier adapters, the ES2000 supports a wide variety of storage configurations. The chassis can accommodate 24 x 2.5" Ethernet SSDs, as well as NVMe SSDs in the E1.S, E3.S and U.2 form factors. When using E1.S, up to 48 SSDs can be installed to provide ultra-high storage density.

Innovative and Patented Design

The storage boasts its multiple patented designs. The virtual midplane allows optimal airflow and eliminates a single point of failure. Designed with high serviceability, the switch module and drive carrier make replacement fast and hassle free.

Stunning I/O Performance

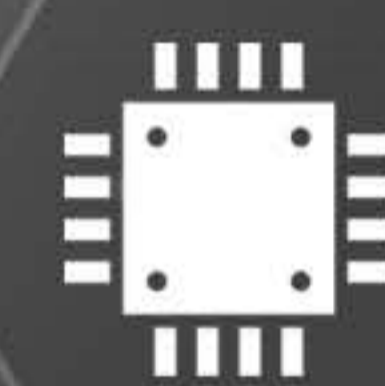
Establishing incredible benchmark in storage performance, the storage delivers impressive 20 million I/O performance of random reads to accelerate storage-heavy workloads that drive your business forward.

High-speed Network Interface

The product comes with 12 x 200GbE uplink ports in a standard 19" 2U enclosure, realizing high-speed data exchange and ultra-low latency to the network.

Application

- Composable Disaggregated Infrastructure
- High Performance Computing
- AI and Machine Learning



Marvell Ethernet Switch



8GB DDR4-2133



24 x U.2/E3.S or
48 x E1.S SSDs



1+1 Redundancy,
Platinum Level



2U Rackmount

ES2000

Specifications



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Storage

Drive Module

- 24 x 2.5" Hot-swap SFF-9639 Ethernet SSD
- 24 x Hot-swap U2/E3.S NVMe SSDs with Marvell 88SN2400/88SN3400 NVMe-oF Controller per Drive Carrier
- 48 x Hot-swap E1.S NVMe SSDs with Marvell 88SN2400/88SN3400 NVMe-oF Controller per Dual-drive Carrier

Internal

1 x M.2 2280 Boot Device (120GB capacity) on Each Switch Module

Networking

Ethernet Switch

Marvell 98EX5630 Ethernet Switch

Management Processor

- Intel Atom® Processor C3538
- 8GB DDR4 2133MHz RDIMM

NOS

ONIE/SONiC

Front Panel

- 1 x Push Button
- 1 x Power LED
- 1 x UID LED
- 1 x System Health LED
- 1 x Dual 7-Segment LED

Rear Panel

- 12 x 200GbE QSFP28/56 Ports (Uplinks)
- 2 x 1G RJ45 Ports
- 2 x RJ45 for Debugging
- 2 x USB 3.0 Ports



AC Input

100-240V, 50-60Hz



Weight

29kg with SSDs



PSUs

1+1 Redundant 1600W Platinum Power Supplies



Fans

6 x 40*56mm Fans per Switch Module for N+1 Cooling Redundancy



Certification

UL, CB, CE, BSMI



Chassis Dimensions (H x W x D)

3.42" x 17.6" x 33.0" /
87.0mm x 447.0mm x 838.2mm



Operating Temperature

10°C to 35°C (50°F to 95°F)

Non-operating Temperature

-40°C to 70°C (-40°F to 158°F)

Operating Relative Humidity

8% to 90%RH

Non-operating Relative Humidity

10% to 95%RH



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