

ES2000/ES2100

The Groundbreaking, NVMe-oF Storage System
for Mind-Blowing Throughput



Flexible Storage Configurations

With a midplane-less design and drive carrier adapters, the high-performance EBOF storage supports a wide variety of storage configurations. The chassis can accommodate 24 NVMe SSDs in the E3.S and U.2 form factors.

Innovative and Patented Design

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

Extreme Networking Performance

The system provides up to 24 ports of 200GbE connectivity, delivering breakthrough networking performance and ultra high speed to support today's demanding applications such as big data and self-driving.

Stunning I/O Performance

Establishing incredible benchmark in the industry, the product delivers impressive 20 million 4K random read IOPS to accelerate data-intensive applications for faster data insights.

Application

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



Marvell/NVIDIA
Ethernet Switch



8GB DDR4-2133



24 x U.2/E3.S



1+1 Redundancy,
Platinum Level



2U Rackmount

ES2000/ES2100

Specifications



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Storage

• Drive Module

24 x Hot-swap U.2/E3.S NVMe SSDs with Western Digital RapidFlex™ A2000 NVMe-oF Controller per Drive Carrier

• Internal

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



Networking

• Ethernet Switch

Marvell 98EX5630 (ES2000)
NVIDIA Spectrum-2 (ES2100)

• Management Processor

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

• NOS

ONIE/SONiC



Rear Panel

12 x 200GbE QSFP56 Ports (ES2000)
24 x 200GbE QSFP56 Ports (ES2100)
2 x 1G RJ45 Ports
2 x RJ45 for Debugging
2 x USB 3.0 Ports



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



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)

3.43" x 17.6" x 23.5" /
87.1mm x 447.2mm x 597.0mm



• 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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