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 x 2.5" Ethernet SSDs, as well as 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 12 ports of 400GbE connectivity, delivering breakthrough networking performance and ultra high speed to support today's demanding applications such as big data and self-driving.
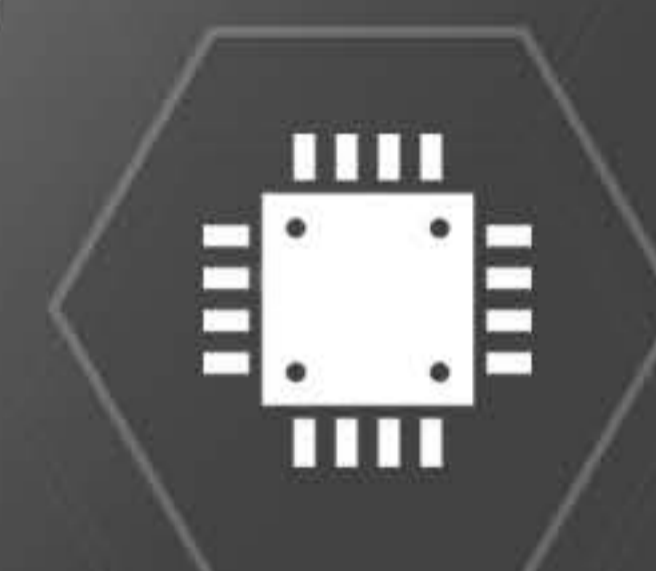
Stunning I/O Performance

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.

*tested with 25G Ethernet SSDs

Application

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

Marvell/NVIDIA Ethernet Switch

8GB DDR4-2133

24 x Ethernet SSDs or 24 x U.2/E3.S

1+1 Redundancy, Platinum Level

2U Rackmount

ingrasys®

ES2000/ES2100
Specifications

ingrasys®

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

Storage

Drive Module
- Config 1: 24 x 2.5" Hot-swap SFF-9639 Ethernet SSDs
- Config 2: 24 x Hot-swap U.2/E3.S NVMe SSDs with Marvell 88SN2400/88SN3400 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 100/200GbE QSFP28/56 Ports (ES2000)
12 x 200/400GbE QSFP-DD 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

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