

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

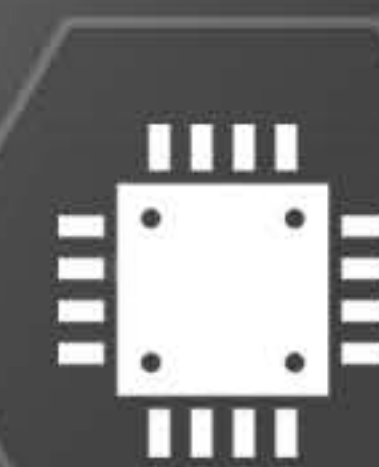
Establishing incredible benchmark in storage performance, the storage delivers impressive 20 million I/O performance of random reads to accelerate storage-heavy workloads that drive your business forward.

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



North America: +1 408-727-8060



Email: Sales@ingrasys.com



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)

3.43" 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



The information in this document is subject to change without notice. Ingrasys, the Ingrasys logo are trademarks or registered trademarks of Ingrasys Technology Inc. All logos, trademarks and registered trademarks are the property of their respective owners.

© 2021 Ingrasys Technology Inc. All rights reserved.