ES2000

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

Flexible Storage Configurations

The chassis can accommodate 24 x 2.5" Ethernet SSD,
as well as support diverse form factors such as E3.S and
U2. Up to 48 x E1.S can also be fitted in to provide
ultra-high storage density. With midplaneless design, users
can enjoy the benefit of changing its storage configuration
with simplicity.

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.
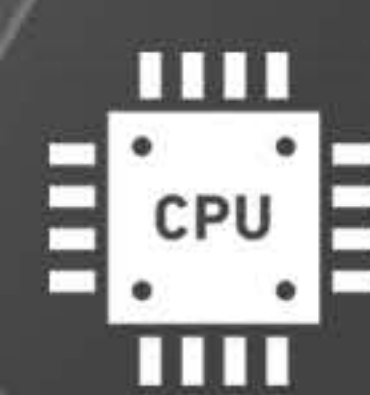
Stunning I/O Performance

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

Intel Atom® Processor Family

8GB DDR4-2133

24 x U.2/E3.S or 48 x E1.S SSDs
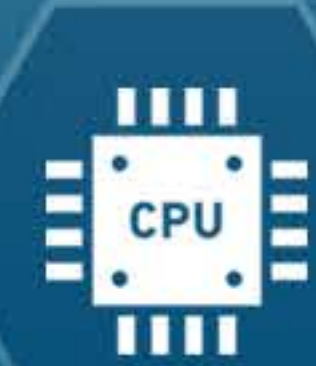
1+1 Redundancy, Platinum Level

2U Rackmount

ingrasys®

ES2000

Specifications

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Management Processor
Intel Atom® Processor C3538

Memory
Capacity: 8GB DIMM
Type: 2133MHz DDR4

Storage
- **Drive Module**
  24 x 2.5" Hot-swap SFF-9639 Ethernet SSD
  24 x Hot-swap U2/E3.S NVMe SSDs
  48 x Hot-swap E1.S NVMe SSDs
- **Internal**
  1 x M.2 2280 Boot Device (120GB capacity) on Each Switch Module

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

Networking
- **Ethernet Switch**
  Marevell 98EX5630 Ethernet Switch
- **NVMe-oF Controller**
  Marvell 88SN2400/88SN3400 Ethernet Converter Controller per Drive Carrier (If conventional U.2 NVMe SSD is used)
- **NOS**
  ONIE/SONiC

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