NVMe Storage System

SSG-136R-N32JBF - A Petabyte in a 1U

Introduction

The Supermicro SSG-136R-N32JBF, or JBOF (Just a Bunch of Flash) platform, delivers the next level of storage capacity, performance, and flexibility to the Supermicro SuperStorage product family. With up to one petabyte of storage capacity in a 1U form-factor, 52 GB/s of throughput, and connectivity for up to 12 hosts, the new JBOF platform is the perfect addition to any mission critical application – from ensuring performance SLAs in the Public Cloud to achieving faster machine learning results.

NVMe Performance*

Throughput — **52 GB/s**

IOPS (M) — **13 M**

The Supermicro SSG-136R-N32JBF supports 32 hot-swap 2.5" U.2 form-factor NVMe SSDs.

At A Glance

CAPACITY
Up to 1 PB of storage per 1U of rack space

PERFORMANCE
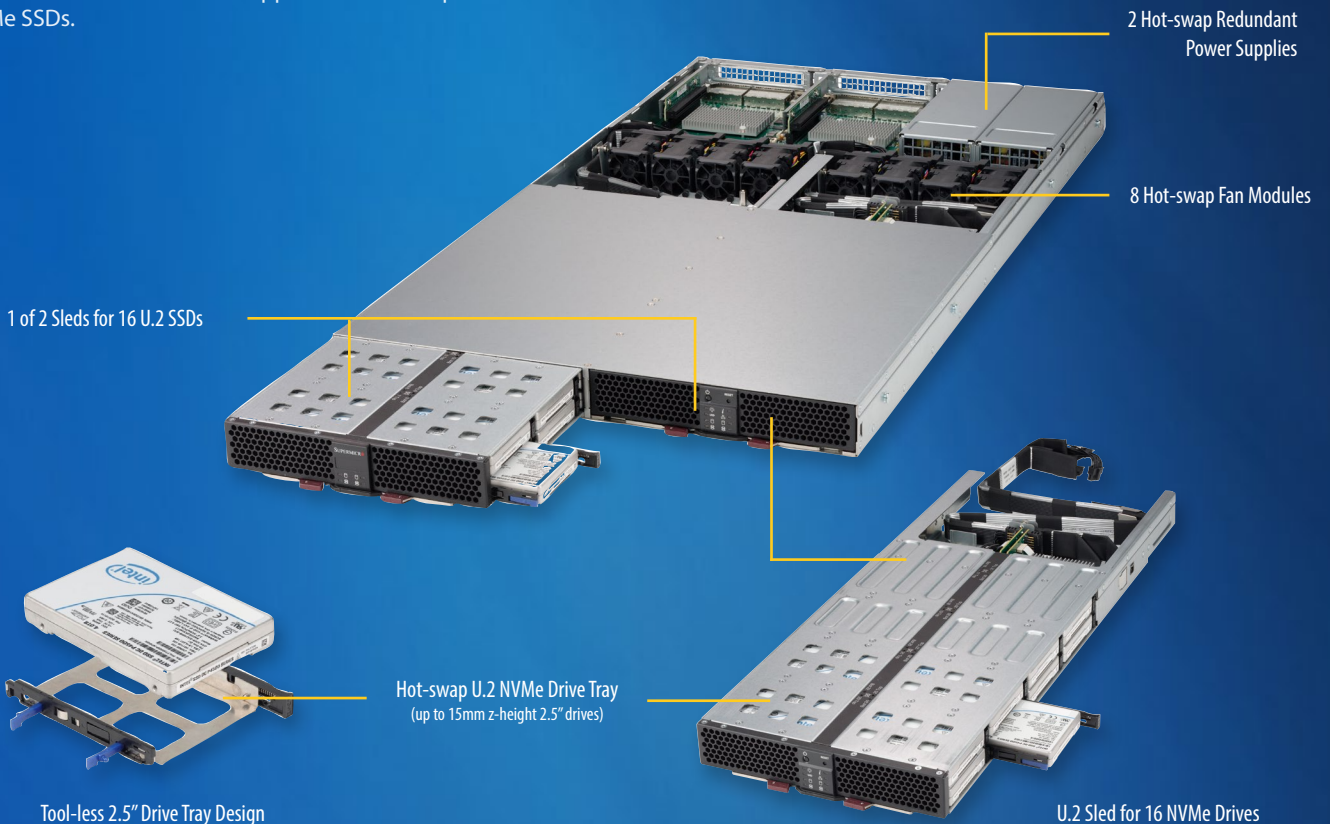Up to 52 GB/s data transfer rate

FLEXIBILITY
Configure up to 12 hosts, or with NVMeoF AOC

SERVICEABILITY
Hot-swap fan modules and power supplies
Hot-swap & tool-less drive trays for U.2 SSDs

ACCESSIBILITY
Remote system on/off and system monitoring
Remote power cycling for each Individual SSD

2 Hot-swap Redundant Power Supplies

8 Hot-swap Fan Modules

1 of 2 Sleds for 16 U.2 SSDs

Hot-swap U.2 NVMe Drive Tray
(up to 15mm z-height 2.5" drives)

Tool-less 2.5" Drive Tray Design

U.2 Sled for 16 NVMe Drives

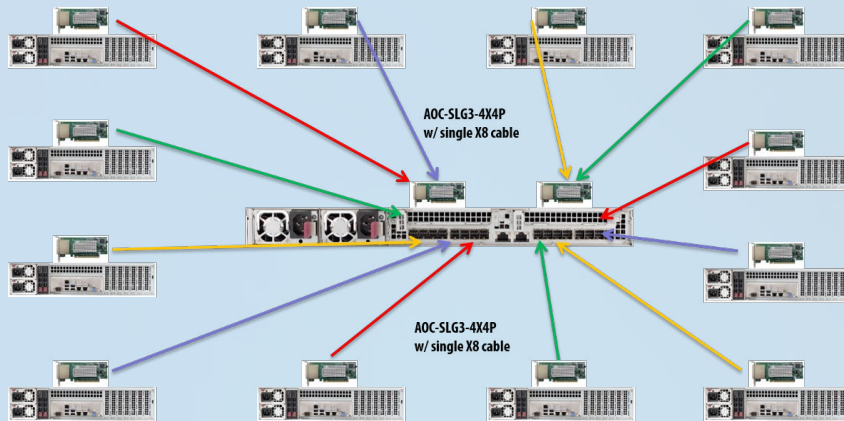*Performance numbers are based on preliminary estimates

![Supermicro logo]

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NVMe over Fabrics

The Supermicro SSG-136R-N32JBF supports up to 12 direct attached hosts, making this the go-to storage platform for any high-performance computing application.

AOC-SLG3-4X4P
w/ single X8 cable

AOC-SLG3-4X4P
w/ single X8 cable

Alternatively, the dual PCI-E 3.0 x16 slots can support dual NVMeoF add-on-cards to enable additional deployment scenarios.

Key Applications

- High Throughput Ingest
- High Density Hot Storage
- HPC / Data Analytics
- Media/Video Streaming
- Content Delivery Network (CDN)
- Big Data Top of Rack Storage

Key Features

- High Density High Capacity NVMe Storage Enclosure
- Supports up to 32 NVMe hot-swappable SSDs
- BMC for Remote system servicing and monitoring
- Tool-less Modular Design
- Flexible to configure up to 12 Hosts
- Individual SSD power cycling

CHASSIS DIMENSIONS
H 1.71" x W 17.26" x D 31.95" (43.6 x 438.4 x 811.7mm)

DRIVE BAYS
32 hot-swap U.2 NVMe SSDs (2 sleds with 16 drives per sled)

HOST SCALABILITY
Supports up to 12 host systems

I/O
4 Mini-SAS HD x16 ports , 2 PCI-E 3.0 x16 Slots, 2 IPMI ports

POWER SUPPLIES
Redundant 1000W (N+1) Titanium Level (96%) power supplies

COOLING
8x 40mm high-speed hot-swappable Fans