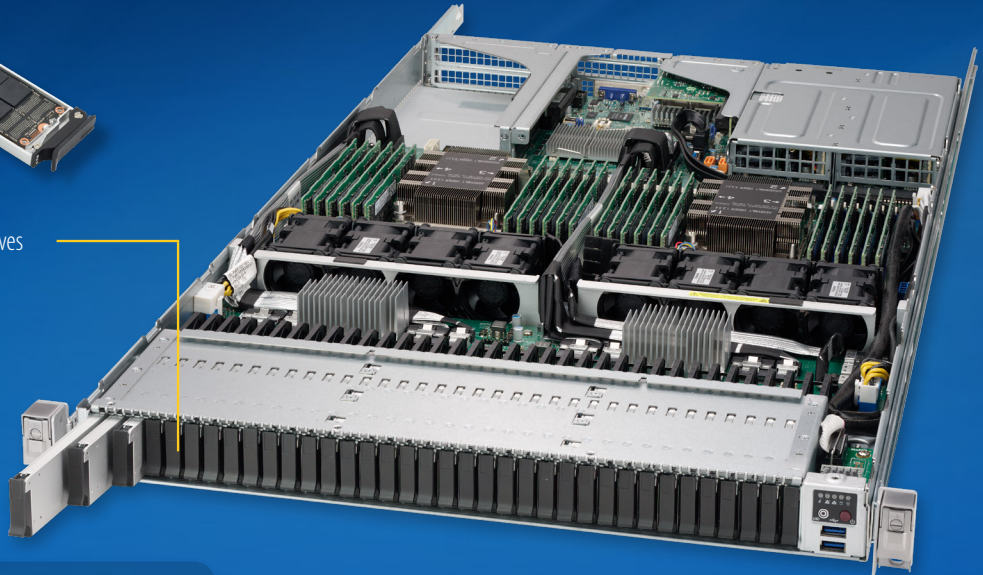# Next Generation All-Flash Leader

1U 2-Socket SuperStorage Supporting 36x 16TB of Samsung NGSFF Drives

Support up to · Dual Intel® Xeon® Scalable processors · 3TB DDR4 memory in 24 DIMMs · 36 NGSFF drive bays
· Dual onboard 10Gbase-T (Optional Omni-Path) · 3 PCI-E 3.0 slots · Redundant Titanium Level (96%) power supplies

1 of 36 Hot-swap NGSFF Drives

SSG-1029P-NMR36L

KEY FEATURES AND BENEFITS OF SAMSUNG NGSFF SSD

· Easy to access and service with a front loading design
· PCI-E 3.0 interface for up to 4 lanes
· Compliant with NVMe 1.2 specifications
· Hot-swappable and Power Loss Protection
· 30.5 x 110mm, 4.38mm height
· Available in 4-16TB capacities per drive

NGSFF SSD PM983

Price / Performance
Streamlining enterprise flash storage to its core values

INTRODUCING THE NEXT GENERATION

Supermicro's latest storage server platform supporting the Next Generation Small Form Factor (NGSFF) media offers a new approach to enterprise all-flash storage applications, by providing all of the benefits of cost optimized M.2 flash drives with an increase in capacity and density and adding the hot-swap capabilities required for enterprise-class applications.

X11 SERVER PERFORMANCE

The SSG-1029P-NMR36 server system has the compute power to deliver time-to-value benefit to any application. WIth dual CPU sockets and 24 DIMM slots, the server offers balanced I/O capabilities supporting up to 400Gb of aggregated network I/O bandwidth when dual Intel® Xeon® Scalable processors with integrated Intel® Omni-Path Architecture (Intel® OPA) are installed.

MAXIMUM STORAGE DENSITY

Not only does NGSFF flash media offer exceptional NVMe performance but the incredibly thin NGSFF modules enable ultra-dense installations allowing for much greater storage density compared to existing 2.5" and 3.5" storage media.

SuperStorage

1U 2-Socket SuperStorage Supporting 36 x 16TB of Samsung NGSFF Drives

Front View

Rear View

SSG-1029P-NMR36 L/LR

Key Applications	• IOPS Intensive Storage Applications • Database Applications (MySQL, Casandra) • Hyperconverged Infrastructure / Scale-out Architectures
Outstanding Features	• Up to 36 NGSFF devices per system • Dual fabric CPU supported (Intel® Omni-Path Architecture) • Up to 3TB of DDR4 memory (24 DIMM slots) • **-LR model:** RDMA optimized configuration for low-latency • Redundant power supplies
Processor Support	Dual Intel® Xeon® Scalable processors with 3 UPIs up to 10.4GT/s
Chipset	Intel® C620 series
Memory Support	24 DIMM slots for up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM DDR4-2666
Expansion	2 PCI-E 3.0 x16 and 1 PCI-E 3.0 x4 slots
Drive Bays	• 32 hot-swap PCI-E NGSFF drive bays • 4 hybrid PCI-E NGSFF or SATA3 M.2 drive bays
Connectivity	2x 10Gbase-T ports
Management	Dedicated IPMI 2.0 and KVM with dedicated LAN port, SuperDoctor® 5, Watchdog
Power Supply	Redundant Titanium Level high-efficiency power supplies with I2C & PMBus™
Form Factor	1U Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details.

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