

HOW FAST CAN YOUR 24 NVMe DRIVES BE ?

Overview

► S2205- 04



- Dual 4th Gen Intel® Xeon® Scalable processors
- 32 x DIMM Slots, 8 channel DDR5, up to 4800MHz, RDIMM/3DS
- 4 PCIe Add-on Cards
- Flexible LAN options: standard PCIe type and OCP 3.0
- NIC are supported
- 24 NVMe Hybrid Hot-swap drive bays

NOTE: DUAL AMD EPYC™ 9004 Series Processors is optional

► S1206- 01



- Dual AMD EPYC™ 9004 Series Processors
- 24 x DIMM Slots, 12 channel DDR5, up to 4800MHz, RDIMM/3DS
- 3 PCIe Add-on Cards
- Flexible LAN options: standard PCIe type and OCP 3.0
- 3.0 NIC are supported
- 12 NVMe Hybrid Hot-swap drive bays

NOTE: DUAL 4th Gen Intel® Xeon® Scalable processors is optional

► SupremeRAID™ SR-1010 Series



SupremeRAID™ SR-1010 is the world's fastest GPU-based RAID controller for PCIe Gen 3, 4, and 5 servers -- designed to deliver superior NVMe/NVMeoF, SAS, and SATA performance while increasing read/write in all flash array and HPC applications.

► SupremeRAID™ SR-1000 Series



Challenge the status quo for performance-demanding workloads with SupremeRAID™ SR-1000 for PCIe Gen 3, 4, and 5 -- designed to deliver superior SSD performance while increasing scalability, improving flexibility, and lowering TCO.

Application: Cloud Computing Service/ Content Delivery Network /Network Function Virtualization/ 5G Core and Edge Telecom Micro Data Center/ AI Inference and Machine Learning

19M

IOPS

220GB/s

Throughput

UP TO 100%

SSD Performance

80%

Cost Savings

UP TO 20X

Faster

SupremeRAID™ SR-1010

- 4k Random Read
- 4k Random Write
- 512k Sequential Read
- 512k Sequential Write
- 4k Random Read In Rebuild
- 4k Random Write In Rebuild

19 M IOPS

1.5 M IOPS

220 GB/s

90 GB/s

5.5 M IOPS

1.1 M IOPS

Hardware RAID

- 3.5 M IOPS
- 180k IOPS
- 13.5 GB/s
- 4 GB/s
- 36k IOPS
- 7 k IOPS

*Based on Linux RAID5(Samsung PM1743) with Intel Xeon Gold 6430 CPU 32-Core with 2.1GHz x 2



Flexible & Future Ready

Unmatched flexibility with features like new O/S support, compression, encryption, thin provisioning, or boot drive protection easily added with software releases



World Record Performance

Full NVMe performance with a single card: 19M IOPS and 220GB/s throughput based on RAID5 with 4th Generation Intel® Xeon Scalable Platform



Highly Scalable

Easily manage 32 direct attached NVMe SSDs; extend data protection without sacrificing performance with Software Composable Infrastructure



Plug & Play

Effortless installation, no cabling or motherboard re-layout required; direct connect to SSD without PCIe switches



Free Up CPU Resources

Offload your entire RAID computation to SupremeRAID™ to free-up CPU computing resources for 5G, AI and IoT applications



Easy to Use

SupremeRAID™ doesn't rely on memory caching technology, eliminating the need for battery backup modules

► Scalable Storage Solution

This server features scalable storage solutions to support maximum performance for data center flexibility, and enable industry-standard SAS/SATA/NVMe interfacing through Broadcom Tri-Mode RAID adapters for increased connectivity and security.

► Unbeatable Performance

SupremeRAID™ SR-1010 increases read performance to **19 M IOPS and 220GB/s** throughput and increases write performance to **1.5 M IOPS and 90GB/s** throughput in RAID 5/6, while maintaining the superior level of data protection for users at HPC & AI workload.



Innovations In The World of Data

“SupremeRAID™ not only delivers maximum performance from SSDs, but also increases performance by using multiple carriers in one RAID — all without straining the processor.”

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DEC. 2022

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Are You Ready to Unleash Your Data Performance?

Don't get left behind, join the future of enterprise data protection. Contact us today.

MSI EPS (Enterprise Platform Solution) is a global forerunner hardware provider. Our products are developed 100% in-house by MSI R&D team to support customers and to approach actual market demand with great focus on Design and Manufacturing.

Graidd Technology Inc. is headquartered in Silicon Valley, with a sales office in Ontario and an R&D center in Taipei, Taiwan. Our leadership is composed of a dedicated team of experts with decades of experience in the SDS, ASIC and storage industries. Learn more at [www.graiddtech.com/news](https://graiddtech.com/news).

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