SupremeRAID[™] SR-1010

The World's Fastest NVMe & NVMeoF RAID Card for PCle Gen 4

Further disrupting the global storage industry, GRAID Technology Inc. now offers the world's fastest NVMe and NVMeoF RAID card for PCIe Gen 4, designed to deliver world class data protection while increasing read and write performance —all at world record performance speeds and and extremely low TCO.





THE CHALLENGE

RAID Bottleneck

As NVMe SSD quickly becomes the new standard for storage infrastructure, a challenge arises for data center storage infrastructure design: the industry requires a future-ready solution to deliver NVMe SSD performance without sacrificing data security or business continuity. Simply put: flash storage performance is evolving too fast to be fully utilized by existing storage architecture.

Implementing a basic software RAID via the CPU can only deliver 10-20% SSD performance on average, while unfortunately consuming almost all of the CPU computing power. While utilizing proprietary hardware might achieve improved performance, the architecture still can't maximize the potential of flash storage.

THE SOLUTION

SupremeRAID[™] SR-1010

In today's data center world, speed and throughput are everything. GRAID Technology recognized the limitations and bottlenecks caused by traditional RAID and developed a GPU-based storage solution to launch RAID technology into the future.



GRAID Technology is proud to

introduce the world's first NVMe and NVMeoF

RAID card created to unlock the full potential of your SSD performance. Our innovative GPU-based solution delivers world-record performance while increasing scalability, improving flexibility, and lowering TCO. With proven performance tests and partnerships with global industry leaders, SupremeRAID[™] delivers maximum SSD performance, comprehensive enterprise data protection, unmatched flexibility, and ubeatable ROI.

9M OPS	110GB/s Throughput	ир то 100% SSD Performance		5× =aste
		SupremeRAID [™] SR-1010	High-end Hardware RAID	
4k Random Read		19 M IOPS	3.5 M IOPS	
4k Random Write		1.5 M IOPS	180 k IOPS	
512k Sequential Read		110 GB/s	13.5 GB/s	
512k Sequential Write		22 GB/s	4 GB/s	
4k Randon	n Read In Rebuild	5.5 M IOPS	36 k IOPS	-
4k Randon	n Write In Rebuild	1.1 M IOPS	18 k IOPS	-

Based on Linux RAID5 with Intel Xeon Gold 6338 CPU 32-Core with 2.0GHz x 2

Unbeatable Performance



SupremeRAID[™] SR-1010 increases read performance to **19 M IOPS and 110GB/s** throughput and increases write performance to **1.1 M IOPS and 22 GB/s** throughput in RAID 5/6, while maintaining the superior level of data protection our customers and partners have come to expect.

Second Se

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

SupremeRAID[™] SR-1010 increases read performance to 19M IOPS and 110GB/s throughput and write performance to 1.5M IOPS and 22GB/s throughput in RAID5/6

Free Up CPU Resources

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

Highly Scalable

٥Č، Easy to Use

backup modules

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

SupremeRAID[™] doesn't rely on

eliminating the need for battery

memory caching technology,

宁 🛛 Plug & Play

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

GIGABYTE KIOXIA A

9 S E A G A T E

"Leveraging a speedier PCIe 4.0 interface, the SupremeRAID[™] SR-1010 arrives with a substantial performance uplift...it's light years beyond even the most high-end hardware RAID arrays."

> TOM'S HARDWARE INDEPENDENT REVIEW APRIL 27, 2022

tom'sHARDWARE

Are You Ready to Unleash Your Data Performance?

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

Learn more about award-winning SupremeRAID[™]—the world's first NVMe and NVMeoF RAID card created to unlock the full potential of your SSD performance, enabling enterprise data centers to achieve record-breaking performance without sacrificing data security or business continuity.

GRAID 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.graidtech.com/news.

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