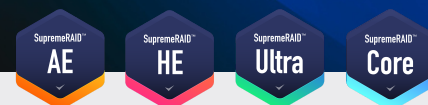


SupremeRAID™ Pro

Advanced GPU-Based NVMe RAID for
Mid-Scale Enterprise Environments



SupremeRAID™ Pro (formerly SR-1000) is a powerful, GPU-accelerated NVMe RAID solution designed for mid-scale enterprise data centers, offering exceptional RAID performance, scalability, and data resilience. Leveraging NVIDIA RTX A1000 GPUs, SupremeRAID™ Pro enables modern IT teams to maximize NVMe SSD speed, simplify management, and protect vital data.

Performance

High-Performance NVMe RAID: Achieve up to 22 million IOPS read and 280GB/s throughput per card, ideal for virtualization, DBaaS, and high-throughput content delivery.

Resilience

Comprehensive RAID Levels: Supports RAID 0, 1, 5, 6, and 10, with up to 32 physical NVMe SSDs per solution, providing flexible redundancy for enterprise needs.

ROI

Versatile Platform Support: Compatible with Intel and AMD servers; broad SSD interoperability supporting all leading NVMe SSD brands for maximum deployment flexibility.

Efficient Resource Allocation: Offloads RAID computation to the GPU, freeing CPU and system memory for applications, reducing bottlenecks.

Easy Integration: PCIe Gen 4 x8, single-slot form factor, and simple deployment with bundled GPU license for rapid deployment without architectural changes.

SupremeRAID™ Pro Ideal For:

Virtualization cloud hosting
and hyper-converged
infrastructure

Enterprise-grade file servers
and database workloads

Media streaming, VOD, or
CDN edge deployments

Multi-tenant SaaS hosting
for regulated industries

**“We’re perpetually impressed
with the extreme storage
performance SupremeRAID™
enables. For maximizing NVMe
SSD performance, we haven’t
seen anything on the market
that can touch the
SupremeRAID™ solution.
It’s fantastic.”**

SupremeRAID™ Pro (formerly SR-1000)

Detailed Technical Specifications

For questions about product specs, email us at info@graidtech.com

Supported RAID Levels	RAID 0/1/5/6/10
GPU Option	NVIDIA RTX A1000, 8GB
Host Interface	PCIe Gen 4 x8
Max SSDs Supported	32 NVMe SSDs
Max Throughput	280GB/s
Max Read IOPS	22M
Max Write IOPS	5M
Max Power Consumption	50W
Dimensions	2.7" H x 6.4" L, Single Slot
Supported OS	Linux (major distros), Windows Server
Compatibility	AMD, Intel
Supported Virtualization	KVM, Proxmox VE, Open VZ, Windows Server Hyper-V
Supported NVMe SSDs	Dapustor, FADU, Hagiwara, Intel/Solidigm, Kingston Technologies, KIOXIA, Memblaze, Micron, Petaio, Phison, QUANXING, Samsung, Scaleflux, Seagate, Western Digital/SanDisk
Management Interface	Web GUI, CLI, RESTful API

Leading NVMe RAID

Delivers high throughput and IOPS, surpassing traditional hardware or CPU RAID limits

32-Drive Scalability

Manages large NVMe SSD pools with unified policy and simplified expansion

Sustained Performance

Fast rebuilds and minimal slowdown ensure uptime during drive failures

No Legacy Hardware

True SSD-native NVMe RAID with no batteries or external cache required



Visit graidtech.com for SupremeRAID™ Pro deployment resources, compatibility details, and configuration guides.

