Hammerspace and SupremeRAID™ by Graid Technology

Maximizing Performance for AI/ML Workloads with GPU accelerated Storage



SOLUTION BRIEF

Protecting NVMe Storage Servers Without Throttling Performance

NVMe SSDs have become the standard choice for high-performance storage workloads, including those used in AI, HPC, and GPU Computing. Protecting the data on those storage servers is critical.

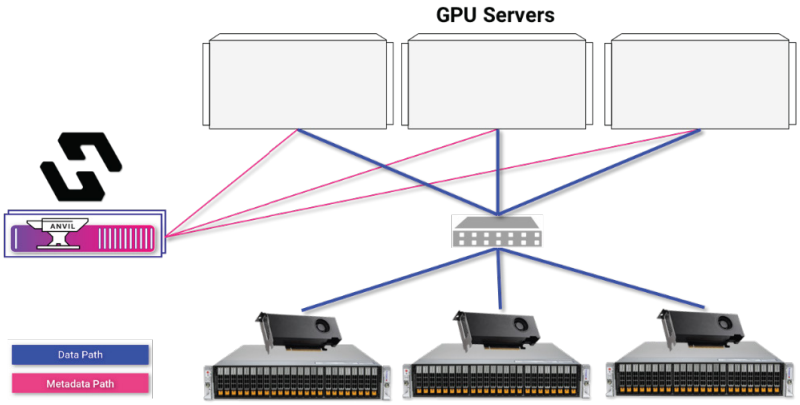
Traditional RAID is a bottleneck, and software-based RAID consumes valuable CPU cycles on storage servers. Both approaches throttle performance, which affects how quickly the storage can feed data to the compute clusters and users that rely on it. When storage and compute resources are being wasted, it impacts ROI and slows down business.

This is a problem on individual storage servers, but the problem becomes acute when deploying large NVMe storage clusters for AI training, HPC workloads, and processing of large unstructured data sets.

Hammerspace Combined with SupremeRAID™ GPU Accelerated RAID for NVMe Storage

Hammerspace, Graid Technology and Supermicro have partnered to solve this problem by offering a solution that combines Hammerspace – a standards-based parallel file system architecture – with Supermicro NVMe storage servers powered by the Graid SupremeRAID™ GPU-Accelerated RAID Cards.

Maximize Performance and Protection of NVMe Storage Clusters with Hammerspace and SupremeRAID™



Supermicro NVMe Storage Servers with SupremeRAID™ GPU-Based RAID Cards

Solution Benefits:

- **Maximize NVMe SSD Performance:** Eliminate traditional RAID bottlenecks with softwaredefined GPU cards that offload the CPU.
- **Efficient Data Protection:** Protect the NVMe drives as an aggregated RAID set without sacrificing performance.
- **Linearly Scalable Performance to Thousands of Nodes:** Hammerspace delivers low-latency, highthroughput performance for large NVMe storage clusters.
- **Automate Data Management Across Sites, Clouds, Storage:** Hammerspace Data Orchestration automates the flow of data within a Global Namespace that spans sites, clouds, and storage.

Graid Technology Inc.

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This solution delivers high-throughput, low-latency performance to feed GPU and CPU clusters at high speeds, and eliminates the bottlenecks associated with traditional RAID approaches to maximize NVMe SSD performance.

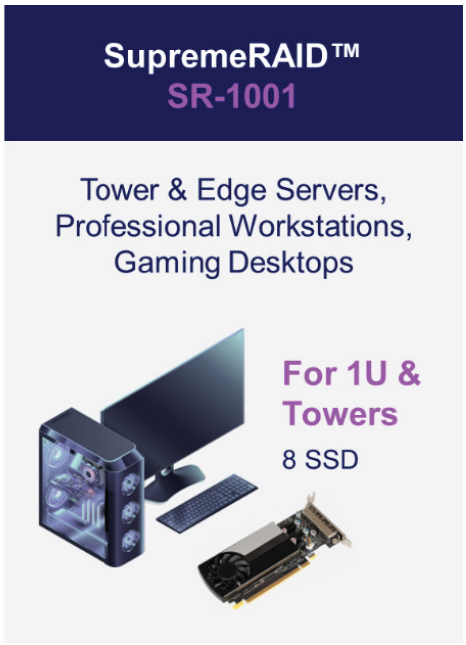
Unleash 100% NVMe SSD Performance with GPU-based SupremeRAID™

SupremeRAID™ leverages a unique software-defined, GPU-based architecture that eliminates traditional RAID bottlenecks, enabling NVMe SSDs to reach their full performance potential. By offloading RAID tasks to the GPU, SupremeRAID™ frees CPU resources, providing faster, more efficient data access for critical workloads.

Graid Technology provides a range of SupremeRAID™ offerings that are suitable for cloud and enterprise servers along with desktop solutions.







About Hammerspace

Hammerspace is radically changing how unstructured data is used and preserved. Our Data Platform unifies unstructured data across edge, data centers, and clouds. It provides extreme parallel performance for AI, GPUs, and high-speed data analytics, and orchestrates data to any location and any storage system. This approach creates a Unified Data Plane that eliminates data silos and makes data an instantly accessible resource for users, applications, and compute clusters, no matter where they are located.

About Graid Technology

Graid Technology is led by a dedicated team of experts with decades of experience in the SDS, ASIC, and storage industries, and continues to push boundaries in data storage innovation by protecting NVMe-based data from the desktop to the cloud. Cutting-edge SupremeRAID™ GPU-based RAID removes the traditional RAID bottleneck to deliver maximum SSD performance without consuming CPU cycles or creating throughput bottlenecks, delivering unmatched flexibility, performance, and value. With headquarters in Silicon Valley supported by a robust R&D center in Taiwan, Graid Technology is globally committed to spearheading advancements in storage solutions. For detailed product information, visit our website, or connect with us on Twitter (X) or LinkedIn.

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