HighPoint Unveils the Industry 1st PCIe 4.0 NVMe RAID Controller Series – up to 28GB/s with a single SSD7500 Series RAID Controller!

September 2020 – Fremont, CA. HighPoint Technologies, Inc. announces its ground-breaking Gen4 SSD7500 series now delivers the industry's fastest NVMe transfer performance. The recently released SSD7500 Series of PCIe 4.0 NVMe RAID controllers are capable of delivering 28,000MB/s from just 4x NVMe SSD's; truly doubling the performance capabilities of Gen3 NVMe solutions.

HighPoint's SSD7500 series controllers are not stop-gap solutions or upwards-compatible NVMe adapters – they are true, uncompromised, next-generation NVMe RAID controllers. Designed from the ground up to take full advantage of PCIe 4.0 bus bandwidth and powered by our Dedicated, Fully Independent Gen4 NVMe architecture and industry leading RAID technology, SSD7500 series RAID controllers ensure customers can experience the real-world performance capabilities of native PCIe 4.0 NVMe storage.

Professionally Built for Native PCIe 4.0 Hardware Platforms

Some customers have been wary to adopt PCIe 4.0 NVMe SSD's, and the reasons are clear - early performance tests have failed to illustrate the advantages of Gen4 NVMe technology. Many of the PCIe 4.0 solutions in today's marketplace have not been tuned for real-world hardware platforms, and in many cases, have to rely on 3rd party technology to support RAID configurations. If examined further, it becomes obvious that many of the current PCIe 4.0 solutions are, in reality, accessories restricted to a particular motherboard, or simply Host Bus Adapters (HBA's), and not true RAID controllers.

HighPoint SSD7500 NVMe RAID controllers were developed for PCIe 4.0 hardware platforms. Unlike competing adapters or RAID solutions, our controllers were designed to take full advantage of the massive transfer bandwidth provided by x16 PCIe 4.0 host connectivity, and have been extensively tuned to excel in AMD-based computing platforms. SSD7500 controllers feature integrated PCIe 4.0 NVMe switch technology, which ensures each SSD is allocated x4 lanes of transfer bandwidth. HighPoint NVMe RAID IP was developed in house, by expert hardware and software engineers that have decades of storage industry experience to draw from.

Truly Independent NVMe RAID Solutions

HighPoint SSD7500 series controllers are truly independent NVMe RAID solutions. Unlike many competing NVMe storage products, SSD7500 series controllers do not require motherboard platforms with Bifurcation support, or any specialized software released by SSD manufactures; any AMD-based system with a dedicated PCIe 4.0 x16 slot can now take full advantage of the industry's fastest storage solution.

Our NVMe RAID stack has been tuned to excel in high-end workstation and server environments, and intelligently utilize today's multi-core processors to maximize the performance potential of Gen4 NVMe storage.

SSD7505's Hyper Cooling Solution Ensures Sustained Gen 4 Transfer Performance

Maximizing Gen4 NVMe storage performance without the proper implementation of modern cooling apparatus is a risky proposition. This is especially true for Gen4 M.2 configurations. PCIe 4.0 NVMe SSD's generate considerable heat under heavy load, and these SSDs are often housed directly within the NVMe solution itself; outside the reach of the platform's cooling fans. To combat the threat of overheating, the SSD7505 employs a completely new, ground-up redesign of our proven NVMe cooling system. HighPoint's Low-Noise Hyper-Cooling solution ensures your M.2 NVMe SSD's consistently operate within their recommended temperature thresholds, even under sustained I/O, by combining a full-length anodized aluminum heat sink with an ultra-durable, near-silent fan, and high-conductivity thermal pad. This innovative, ultra- efficient cooling system rapidly transfers waste heat away from critical NVMe and controller componentry, without introducing unwanted distraction into your work environment.

Comprehensive Platform Support

SSD7500 series NVME RAID controllers can be easily integrated into any modern computer platform. They are compatible with all major operating system platforms including Linux Distributions, macOS and Windows, and are fully backwards compatible with Intel PCIe Gen 3 platforms. In addition the SSD7505 M.2 RAID controller can be used to configure bootable RAID or single NVMe SSD configurations for Windows and Linux systems.

Compatible with Gen4 and Gen3 Storage Media: The SSD7505 can maximize the performance of any Gen 4 SSD configuration in today's marketplace.

SSD7500 controllers are also ideal bandwidth upgrades for Gen3 SSD's. For applications that require transfer speeds between 15,000 and 24,000 MB/s, customers can pair SSD7500 series RAID controllers with Gen3 NVMe SSD's. The superior PCIe 4.0 bandwidth ensures maximum performance for both RAID and non-RAID storage configurations, and the Gen3 SSD's offer as much as 25% savings over equivalent Gen 4 models.

SSD7500 Series NVMe RAID Controllers

SSD7500 Gen 4 NVMe RAID controllers deliver uncompromised performance & capacity potential, a single 4-port SSD7505 can deliver up to 28,000MB/s!

SSD7505 – PCIe 4.0 x16 / 4x M.2 Ports – MSRP USD $599.00

SSD7540 – PCIe 4.0 x16 / 8x M.2 Ports – MSRP USD $999.00

SSD7580 – PCIe 4.0 x16 / 8x U.2 Ports – MSRP USD $999.00