

HighPoint Launches the RocketAIC 6542AAW – the Industry’s 1st Near ½ Petabyte RAID Storage Drive smaller than Your Shoebox!

November 2024, Fremont CA - HighPoint’s RocketAIC 6542AAW has established a new milestone for turnkey NVMe Storage. Despite the external RAID solution’s tidy dimensions (it stands only 4.84 inches tall, 8.27 inches deep, and 9.25 inches in length), it is equipped with eight of Solidigm’s D5-P5336 NVMe SSDs, and provides an astonishing 491.52TB of enterprise storage capable of delivering 28GBs of real-world transfer speed; ideal for Edge Applications that demand fast, high-density storage solutions with small hardware footprint.

The compact external storage chassis’ integrated power supply and powerful cooling system enable the NVMe media to be completely isolated from the host hardware platform. Not only does this free up interior space for the host server or workstation, it can significantly improve reliability and efficiency by offsetting power consumption and ensuring that waste heat generated by the SSDs never enters the computing environment.

RocketAIC 6542AAW drives are ideal for tackling data-intensive applications and workflows that require a portable, scalable storage solution, such as high-speed data acquisition, M&E post production, and rapid backup and recovery workflows.

Maximum Performance - Guaranteed!

Industry leading PCIe switching technology and 400Gbps CDFP connectivity enable the RocketAIC 6542AAW to maximize data transfer throughput by fully utilizing all x16 lanes of PCIe bandwidth provided by the host platform. Both the enclosure chassis (device-side) and included PCIe adapter (host-side) integrate Broadcom’s proven PEX 88048 PCIe switch ICs to deliver a guaranteed x16 lanes of dedicated PCIe Gen4 upstream bandwidth and x32 lanes of dedicated downstream bandwidth to the eight Solidigm D5 series U.2 SSDs.

Effortless, real-time NVMe Storage Management Solution!

The RocketAIC 6542AAW’s advanced suite of sensors, LED indicators and alarms were engineered to simplify the administration of NVMe storage. These integrated, self-diagnostic and monitoring services proactively monitor and report the status of the host to device connection, enclosure /storage temperature, and the condition and status of the Solidigm D5 SSDs. Simple color-coding is used convey status information at a glance; Blue for optimal, Yellow for warning, and Red for trouble.

The robust enclosure features true NVMe Hot-Swap capability to streamline service and upgrade workflows. Administrators can safely eject the entire RAID array while the host system remains operational. The RocketAIC 6542AAW will automatically notify the operating system of any changes, in real time – no reboot required!

HighPoint’s SafeStorage Solution Securs Data from Unauthorized Access

SafeStorage was developed to work in conjunction with SED capable Datacenter and Enterprise class NVMe media, such as Solidigm class-leading D5 U.2 SSDs. The solution enables the RocketAIC 6542AAW to protect data assets should the physical U.2 drives be misplaced or stolen by preventing unauthorized access to stored data.

SafeStorage can be enabled for any storage configuration; whether using the default RAID 0 array, individual U.2 SSDs or a new volume customized for a particular application and workflow.

RocketStor 654x Series NVMe RAID Enclosures

HighPoint's RocketStor 654x series PCIe Gen4 x16 external NVMe enclosures are ideal storage platforms for System Integrators or Value-Added-Resellers seeking to offer external NVMe RAID solutions for specific use cases, applications or customer projects. Available with 4 or 8 hot-swappable drive bays, and capable of supporting any industry standard 2.5" U.2 or U.3 drive, the robust, ultra-compact external storage chassis can be easily integrated into any x86 server or workstation with an available PCIe Gen4 or Gen5 x16 slot.

Shipping & Availability

The RocketAIC 6542AAW is now available worldwide direct from our E-Store and our approved Global Resale and Distribution partners.

[Where to Buy](#)

RocketAIC 6542AAW 491.52TB External PCIe Gen4 x16 NVMe RAID Drive - **MSRP: USD \$78,999.00**

RocketStor 6542AW 8-Bay PCIe 4.0 x16 External NVMe RAID Enclosure MSRP USD\$: \$2,299.00

RocketStor 6541AW 4-Bay PCIe 4.0 External NVMe RAID Enclosure MSRP USD \$1,299.00

About HighPoint Technologies, Inc.

HighPoint Technologies stands at the forefront of storage innovation as the industry's -premier manufacturer of high-performance, high-density NVMe Switch and RAID AIC & Adapter solutions for off-the-shelf x86 AMD and Intel platforms. With a rich history spanning nearly three decades, our dedication to delivering innovative, reliable, and high-performance storage solutions has consistently set us ahead in the marketplace. HighPoint's NVMe storage solutions are powered by industry-proven PCIe Switching technology, and are designed to address the dynamic requirements of AI/ML/LLM applications, Data Centers, Edge Servers, and high-performance workstations, enabling customers to keep pace with today's rapidly evolving technology landscape.