

HighPoint Launches the Industry's Shortest 4x M.2 Gen5 x16 NVMe RAID AIC

April 2025 – Fremont, CA - In the fast-paced world of high-performance computing, the demand for compact yet powerful storage solutions is at an all-time high. While full-length and full-height (FH/FL) form factors for 4x M.2 AICs (Add-in Cards) have been the norm, they often clash with the space constraints of small form factor (SFF) builds and compact rackmount environments. To address this challenge, HighPoint has introduced the revolutionary Rocket 7604A, the industry's shortest 4x M.2 Gen5 x16 NVMe RAID AIC, designed to transform compact computing environments into high-performance powerhouses.

Key Features

Ultra-Compact Design: The Rocket 7604A is an ultra-compact half-length PCIe Gen5 x16 4-port M.2 NVMe RAID AIC. The AIC's tidy 167mm x 110mm dimensions and FH-HL form factor makes it ideal for high-end gaming platforms, professional workstations, and rackmount chassis, where space is at a premium.

Class-Leading Gen5 Storage Performance: With a staggering throughput of 64GB/s and 12 million IOPS, the Rocket 7604A sets a new standard for storage performance. This makes it perfect for data-intensive media and industrial applications that require lightning-fast data transfer speeds.

4 Independent M.2 Ports: The AIC offers up to 32TB of storage capacity via a single PCIe slot, thanks to its four independent M.2 ports. This flexibility allows users to expand their storage capabilities without sacrificing performance or space.

Seamless Compatibility: The Rocket 7604A is designed to work seamlessly with both ARM and x86 Intel/AMD platforms, ensuring broad compatibility across a wide range of computing environments.

Proven NVMe RAID Technology: The AIC supports RAID 0, 1, and 10 configurations, leveraging HighPoint's proven NVMe RAID technology. This provides users with the flexibility to optimize their storage for speed, redundancy, or a balance of both.

Advanced Thermal Management: To maintain optimal performance, the Rocket 7604A features an advanced thermal management system. The robust, low-decibel cooling fan and full-length heatsink were engineered to work in tandem with HighPoint's proactive hardware sensor and logging suite to ensure the AIC operates within safe temperature ranges, even under heavy loads.

Comprehensive Management Interface: HighPoint NVMe RAID AICs include robust management and monitoring utilities for administrators of all skill levels:

- The **WebGUI** is an intuitive Web-based graphical user interface.
- **CLI (Command Line Interface):** streamlined tool for expert administrators.
- **UEFI-HII Tool:** Configure arrays using the system's BIOS Interface
- **Intelligent 1-Click Self-Diagnostic & Logging Solution:** Simplify troubleshooting with automated logs and direct support access.

Unmatched Performance for Data-Intensive Workloads

The combination of class-leading transfer performance and HighPoint's proven RAID & Storage technology enables the Rocket 7604A AIC to handle a wide range of data-intensive workloads. Whether you're working on media post-production and content creation, high-speed data acquisition, or scientific and medical applications, the Rocket 7604A delivers the performance and reliability you need.

Media Post-Production and Content Creation: The AIC's high throughput and IOPS make it ideal for handling large media files and complex workflows, ensuring smooth and efficient post-production processes.

High-Speed Data Acquisition: For applications that require rapid data capture and analysis, the Rocket 7604A provides the necessary speed and capacity to handle high-speed data streams.

Scientific and Medical Applications: In fields where data accuracy and speed are critical, the AIC's robust performance ensures that data is processed and stored efficiently, supporting advanced research and medical diagnostics.

In Summary

The Rocket 7604A from HighPoint is a game-changer for compact computing environments. By providing unparalleled storage performance and flexibility in a compact form factor, it opens up new possibilities for professionals and enthusiasts alike. Whether you're a content creator, gamer, or data scientist, the Rocket 7604A is designed to meet your demanding storage needs with ease and efficiency. With its advanced features and robust design, the Rocket 7604A is set to redefine the standards for NVMe RAID AICs in the industry.

Learn More

Rocket 7604A – PCIe Gen5 x16 to 4x M.2 NVMe RAID Adapter

<https://www.highpoint-tech.com/rocket-7604a-individual-page/>

About HighPoint Technologies, Inc.

HighPoint is committed to providing innovative, reliable, and scalable solutions that meet the evolving demands of today's high-performance computing, video editing, AI, and 3D rendering applications. Our team is dedicated to helping you achieve your technical and business goals, ensuring your systems run at peak efficiency.

We invite you to explore our PCIe Gen5 and Gen4 x16 expansion solutions and experience the difference that HighPoint makes. For more information, visit our website or contact our sales team directly.