

HighPoint's Rocket 7604A Half-Length 4x M.2 PCIe Gen4 x16 RAID AIC: Unleashing Enterprise-Grade Storage for Compact VM Platforms

Fremont, CA – July 2025 – HighPoint Technologies has unveiled a new bootable PCIe Gen5 M.2 NVMe storage solution for compact virtualization platforms; the Rocket 7604A. Engineered to empower virtualization platforms with unmatched performance, scalability, and efficiency, the Rocket 7604As flexible RAID technology and proven PCIe Switching architecture can deliver over 50GB/s of real-world performance in an unprecedentedly compact package that can be easily integrated into modern Windows and Linux environments.

Core Features

Engineered for High-Performance Virtualization Workloads

Powered by HighPoint's industry-proven NVMe RAID technology, the Rocket 7604A delivers **uncompromising performance, scalability, and efficiency** for virtualization workloads. Designed to streamline high-speed storage integration, it provides robust PCIe Gen4 bandwidth and supports up to four U.2 or M.2 NVMe SSDs, making it an excellent fit for hypervisor platforms such as VMware®, Proxmox®, and Microsoft® Hyper-V®.

Flexible NVMe RAID Configurations

- **RAID 0/1/10 Modes:** Optimizes performance, redundancy, or a balanced approach via HighPoint's proven NVMe RAID engine, ensuring data security and high availability for critical workloads.
- **Bootable RAID Compatibility:** Fully bootable on Windows and Linux systems, enabling seamless deployment of RAID-protected VM host environments.

Compact Design for Space-Constrained Systems

- **Half-Length AIC Form Factor:** Fits into small-form-factor workstations, blade servers, and 1U/2U rackmount systems, ideal for dense data center deployments.

Intelligent Management & Monitoring

- **Real-Time Diagnostics:** Built-in LEDs, FRU (Field Replaceable Unit) support, and advanced management interfaces simplify troubleshooting and maintenance.
- **Environmental Monitoring:** Tracks temperature, voltage, and SSD health, with event logging and alerts for proactive fault prevention.

Technical Advantages

- **Hypervisor Ready:** Optimized for VMware ESXi, Proxmox, and Microsoft Hyper-V, the Rocket 7604A accelerates VM storage I/O and reduces latency in multi-tenant environments.
- **Enterprise-Grade Reliability:** Built with server-class components and a robust intelligent NVMe cooling system, the Rocket 7604a can help ensure 24/7 uptime for mission-critical applications.

- **Future-Proof Scalability:** Backward-compatible with PCIe Gen3 systems while leveraging Gen4 bandwidth for next-gen workloads.

Target Applications

- **Edge Computing:** Deploy high-speed, compact storage solutions in remote or resource-constrained edge servers.
- **Cloud Service Providers:** Scale NVMe storage for containerized workloads, Kubernetes clusters, and hybrid cloud setups.

In Summary

The Rocket 7604A is engineered to empower IT professionals, system integrators, and data center architects with a simple yet powerful NVMe storage solution that meets the demanding needs of virtualization and enterprise workloads. It's compact, space-saving design, dedicated PCIe 5.0 x16 bandwidth, and intelligent management tools are ideal for customers that need to maximize storage performance without sacrificing density or reliability.

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.