

HighPoint Rocket 1628A & Rocket 1528D Adapters Deliver Single-Slot NVMe + PCIe Expansion!

Jul 2025 – Fremont, CA - HighPoint Technologies revolutionizes PCIe scalability with its Rocket 1628A and 1528D NVMe Switch Adapters, empowering enterprise IT and solution providers to deploy up to 32 NVMe drives and 8 PCIe devices in a single x16 slot - breaking barriers for space-constrained systems.

Core Features & Advantages

Breakthrough PCIe Gen5/Gen4 Connectivity

Built on HighPoint's award-winning PCIe switching architecture, the R1628A (Gen5) and R1528D (Gen4) adapters support up to 32 NVMe SSDs (U.2/U.3/EDSFF) via UBM and VPP storage backplanes or direct connectivity to the NVMe media when paired with industry-standard cabling accessories.

Flexible lane allocation ensures optimal bandwidth distribution for mixed workloads, while PCIe Gen5 x16 connectivity delivers up to 512GT/s of upstream throughput to accelerates today's most data-intensive applications.

Unmatched PCIe Expansion Capacity

The 4x MCIO/SlimSAS ports enable compact platforms to host up to 8 PCIe devices, including GPUs NICs, capture devices and storage controllers, addressing PCIe slot shortages associated with compact servers, workstations and industrial platforms.

Compact, Enterprise-Ready Design

The adapters' LP MD2 form factor (155mm x 68.9mm) ensures seamless installation in 1U/2U rackmount servers, tower workstations, and custom industrial platforms.

Smart Management & Deployment

Native in-box driver support streamlines installation and deployment across all modern Windows and Linux-based operating systems.

Advanced hardware features including integrated LED indicators for drive/host connection/chassis status, environmental sensors that monitor temperature and voltage in real time, and FRU support simplify maintenance and service workloads in the field.

Technical Highlights

Scalable NVMe Storage Arrays: Support for high-density Enterprise NVMe storage media including EDSFF, E1.S and E3.S, meets the demands of AI training, video editing, and big data analytics.

Multi-Device PCIe Expansion: Rocket 1628A and 1528D adapters enable platforms to accommodate multiple GPUs for compute acceleration, high-speed NICs for network connectivity, or capture devices for real-time data ingestion—all within a single PCIe slot!

Plug-and-Play Compatibility: Industry standard MCIO and SlimSAS connectivity and the LP MD2 form factor reduce integration complexity for Enterprise IT departments and professional solution providers.

Field Serviceability: Hot-swap capabilities and intuitive LED diagnostics simplify on-site maintenance and upgrades.

Target Applications

Data Center & Edge Computing: Optimize 1U/2U rack servers for high-density storage or PCIe device clusters without slot constraints.

AI/ML Infrastructure: Combine multi-GPU setups with NVMe storage arrays for faster model training and inference workflows.

Industrial Automation: Support sensor-rich systems (e.g., factory robots, surveillance arrays) with reliable PCIe connectivity and ruggedized design.

Professional Workstations: Enable creatives and engineers to expand storage and peripherals in compact tower systems.

Custom Storage Appliances: Build purpose-built solutions for backup, archiving, or high-throughput analytics.

In Summary

The HighPoint Rocket 1628A and 1528D adapters redefine what's possible in PCIe storage and expansion. Whether deploying AI clusters, industrial IoT systems, or high-performance workstations, these solutions deliver scalability, performance, and simplicity without compromising on space or reliability.

Learn More

Rocket 1628A PCIe Gen5 x16 4x MCIO 8x Switch Adapter

<https://www.highpoint-tech.com/nvme-switch-adapter/gen5/rocket-1628a>

Rocket 7528D PCIe Gen4 x16 4x SlimSAS 8x Switch Adapter

<https://www.highpoint-tech.com/nvme-raid-adapter/gen4/rocket-7528d>

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, and 3D rendering. 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.