HighPoint Unveils 2nd-Gen PCIe Gen4 NVMe Switch Adapter Series: Extend Drive Connectivity up to 32 Devices Per PCIe Slot!

November 2024, Fremont CA - HighPoint Technologies is proud to announce the launch of its re-engineered 2nd Generation Gen4 x16 NVMe Adapter Series.

Rocket 152x series NVMe Switch Adapters represent a new benchmark for PCIe Gen4 storage scalability and performance. Engineered for enterprise servers and data centers platforms, and capable of supporting up to 32 NVMe devices per PCIe slot, HighPoint's 2nd-gen PCIe Gen4 NVMe Adapters can be seamlessly integrated into a diverse range of storage infrastructure.

The adapter series integrated hardware monitoring sensors and diagnostic tools enhance reliability and streamline service workflows while native hardware support ensures effortless deployment across all major operating systems. This unmatched versatility and rich feature set makes HighPoint NVMe Switch Adapters ideal for IT environments that demand scalable, high-performance storage solutions for PCIe Gen4 connectivity.

Advanced PCIe Gen4 Switching Architecture: Re-engineered from the Core!

HighPoint's re-engineered PCIe Gen4 Switching Architecture sets a new standard for NVMe performance and scalability. Each adapter allocates a full x16 lanes of dedicated PCIe Gen4 bandwidth to the upstream port, ensuring maximum connectivity with the host computing platform, and x8 lanes to each of the four SlimSAS ports to optimize NVMe device performance. The innovative 2nd-Generation PCIe 4.0 Switching Architecture introduces a series of game-changing features.

Configurable PCIe Lane Counts enable customers to optimize the adapter for device connectivity or transfer performance to accommodate various storage infrastructure and workloads. The adapter's customizable firmware can be configured to support as many as 32 devices via a single PCIe slot providing customers with unparalleled storage expansion capability and flexibility.

The compact, low-profile adapters are fully compliant with Industry standard storage backplane specifications including **UBM** (Universal Backplane Management) and **VPP** (Voltage Protection Profile), real-time storage health and connectivity monitoring services, and advanced storage communication interfaces like **SMBus, I2C, MCTP,** and **SMC**.

These robust, flexible, and scalable solutions enhance enterprise NVMe storage infrastructure, enabling administrators to easily customize and expand storage systems to meet the demanding requirements of modern data center and edge computing environments.

Advanced NVMe Cooling Solution

Each adapter is equipped with HighPoint's Advanced Gen4 NVMe Hardware Cooling Solution designed to maximize the reliability and endurance of NVMe controller hardware and the Broadcom Switch ICs.

The passive solution is comprised of full-Length Aluminum heat exchanger and a ventilated PCIe bracket. The PCB side of the heat exchanger utilizes an innovative system of copper piping to rapidly whisk waste heat away from the PEX 88048 switch IC and controller componentry to further promote longevity of the adapter hardware. The lack of moving parts and zero maintenance requirements are ideal for professional server and datacenter environments.

Field Service Feature Suite

HighPoint's 2nd-Generation Rocket 152x Series PCIe Gen4 NVMe Switch Adapters are purpose-built to optimize operational efficiency, reduce downtime, and enhance the reliability of NVMe storage configurations. Equipped with Intelligent Self-Diagnostic LEDs and Alarms, these adapters provide simple, color-coded visual indicators and audible alerts, enabling administrators to instantly assess critical factors such as the status of NVMe media, PCIe connection integrity, and temperature of the PCIe switch IC. Designed as Field Replaceable Units (FRUs), each adapter securely stores Vital Product Data (VPD), enabling seamless procurement of replacements preloaded with the correct firmware and drivers. The series also integrates HighPoint's advanced MPT Utility for real-time monitoring and diagnostics, alongside Hot-Swap support, which allows SSDs to be added or replaced without system downtime, ensuring uninterrupted service and streamlined maintenance.

Rocket152x NVMe Switch Adapters Maximize Storage Performance, Scalability and Reliability for PCIe Gen4 Connectivity

HighPoint 2nd Gen PCIe 4.0 NVMe Switch Adapters support a diverse range of storage connectivity options, making them suitable for a variety of Edge and Datacenter computing environments and data-intensive Enterprise applications.

Rocket 152x Series PCIe Gen4 x16 NVMe Switch Adapters are now available worldwide direct from our E-Store and our approved Global Resale and Distribution partners.

[Rocket 1528D – PCIe Gen4 x16 to 4-SlimSASx8 NVMe Switch Adapter: MSRP USD $699.00](#)

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.