HighPoint Technologies Announces Free Firmware Customization for Gen5 NVMe AICs and Adapters, Empowering Customers with Scalable, High-Performance Storage Solutions

December 2024, Fremont CA - HighPoint Technologies is proud to announce the availability of **Firmware Customization** all **Gen5 and 2nd Gen4 NVMe AIC and Adapter product lines**. The Service is offered free of charge for any Project and Solution Partner, empowering organizations with the flexibility to custom-tailor storage infrastructure to meet the evolving performance and capacity requirements of data-intensive workloads.

Industry-Leading Gen5 Solutions

HighPoint's **Rocket 7600/1600 Series** are the industry's **de facto Gen5 x16 NVMe AICs and Adapters. With the deployment of Gen5 DC and Enterprise media expected to increase dramatically in 2025,** this initiative aims to accelerate the deployment of high-performance NVMe storage solutions for data centers, HPC centers, and AI/machine learning workflows.

Key Customization Benefits

Rocket 7600 and 1600 series Adapter's strict adherence to industry-standard server/datacenter specifications, proven PCIe Switching Architecture and flexible firmware customization enable organizations to rapidly upgrade storage infrastructure to support up to 32 NVMe devices from a single PCIe x16 slot, empowering customers with unprecedented scalability and flexibility.

Enhanced Storage Scalability: **Rocket 7600/1600 Adapters can support up to 32 devices per PCIe x16 slot, and are the i**ndustry's densest PCIe Gen5 NVMe Connectivity Solutions. **Configurable PCIe lane counts** (**x1, x2, x4 per device**) enables the adapters to be tailored for customer defined application. The unique **x2 mode** is designed for enterprise storage media, enabling a single NVMe SSD to operate as two logical paths for optimized performance.

Seamless Storage Integration: Rocket 7600/1600 series Adapters are fully compliant with industry standard server specifications including **UBM, and VPP**, and can be easily integrated into a wide range of high-performance edge server environments.

Advanced Device Management: Rocket 7600/1600 Adapters Leverage the **SMBus interface** to retrieve vital FRU (Field Replaceable Unit) data, including device identification and manufacturing details, NVMe device and performance metrics (subject to manufacturer support).

Close Collaboration with Industry Leading Storage Vendors and System Manufacturers: HighPoint Technologies has established a strong technology ecosystem through partnerships with leading NVMe drive vendors and solution providers. This collaboration enables us to custom-tailor storage and connectivity products for a diverse range of high-performance applications, including data centers, HPC environments, and AI/machine learning workflows.
This robust ecosystem ensures HighPoint products and solutions are compatible with a broad range of storage media, and can be seamlessly integrated into industry standard x86 Intel/AMD or ARM Server and Workstation Platforms, providing customers with both peace of mind, and the flexibility to optimize storage infrastructure to satisfy the most demanding performance and capacity requirements.

Why Choose HighPoint?

HighPoint's Gen5 NVMe customization delivers unmatched value by facilitating seamless storage expansion for next-generation computing platforms. Rocket 7600 and 1600 series NVMe Adapters enable customers to rapidly deploy storage solutions for edge and datacenter environments, and optimize or scale storage infrastructure for unique applications and workflows.

Learn More About HighPoint Firmware Customization

Parties that want to learn more about HighPoint's PCIe Gen5 Firmware Customization services, or Rocket 7600/1600 series adapters are encouraged to contact our Sales team

Join the leaders in AI, HPC, and data center innovation. Contact HighPoint to take advantage of our free firmware customization service and redefine your high-speed storage infrastructure.