

## Wield the full Power of Gen5 GPUs: HighPoint Launches x16 eGPU Enclosure Series for Space-Constrained Workstations and Servers

**July 2025, Fremont, CA** — HighPoint Technologies, a global leader in performance-driven I/O connectivity and storage solutions, have proudly announced the launch of their RocketStor 8631CW and RocketStor 8531AW Gen5 x16 eGPU Enclosures—purpose-built to maximize the performance of RTX5090 series GPUs in space-constrained workstations and server environments.

As next-gen applications increasingly demand more and more powerful GPUs, many professionals face a major challenge: limited internal PCIe real estate. HighPoint's latest eGPU enclosures provide a dedicated external PCIe Gen5 x16 expansion pathway, enabling full utilization of cutting-edge GPUs like the RTX5090 without compromising the thermal performance, PCIe bandwidth, or system integrity of compact workstation and server platforms.

At the heart of this breakthrough solution is HighPoint's custom PCIe Gen5/Gen4 x16 Switching Adapter, paired with high-density CDFP cabling and connector technology. CDFP's ultra-compact form factor enables the adapter to fit into low-profile, single-width PCIe slots, while still delivering up to 128GT/s of low-latency throughput—equivalent to a native x16 PCIe Gen5 interface.

### Key Features & Benefits:

- **True Gen5 x16 Bus Speed Support:** The RocketStor 8631CW delivers up to 128GT/s of ultra-fast, low-latency PCIe throughput—essential for modern GPU-accelerated workloads.
- **Ultra-Compact, Space-Efficient Design:** The single-width, low-profile PCIe switching adapters and single-cable CDFP connectivity is ideal for 1U/2U rackmount and slim tower systems.
- **Full-Spec GPU Support:** Each enclosure can accommodate a full-length (up to 360mm), full-height, 3-slot wide GPUs and deliver up to **600W of direct power**—ideal for today's most powerful Gen5 and Gen4 GPUs
- **Plug-and-Play Expansion for Any Computer Platform with PCIe x16 Gen5 or Gen4 Connectivity**  
The compact form factor and simple driver-less plug and play integration enables high-performance GPU compute capability without having to sacrifice valuable PCIe real estate or drastically reconfigure existing platforms.
- **Intelligent, Real-Time Hardware Monitoring for Peak GPU Performance and Thermal Stability:** The RocketStor 8631CW Pro-Active Hardware Monitoring System enables users to instantly determine the status and health of the GPU, enclosure, and host adapter. A suite of integrated sensors actively tracks key hardware metrics such as GPU activity, electrical characteristics, fan operation, temperature levels, and PCIe link status. Paired with an intuitive user interface featuring intelligent smart modes, optional full manual control, and comprehensive logging capabilities, the solution enables administrators to maintain rock-solid GPU performance under sustained high loads.

## In Summary

HighPoint's groundbreaking RocketStor 8631CW and 8531AW eGPU enclosures enable compact workstation and server platforms to harness the full power of high-end GPUs. These solutions deliver dedicated host to device PCIe x16 bandwidth (up to 128GT/s) via a custom CDFP cable, and are capable of providing 360mm full-length GPUs with 600W of power. The robust industrial grade construction, driverless plug-and-play installation, real-time hardware monitoring services, and compact external form factor ensure seamless integration with industry standard Gen5/Gen4 platforms and streamline service in the field.

## Learn More

### **RocketStor 8531AW PCIe Gen4 x16 eGPU Expansion Chassis**

<https://www.highpoint-tech.com/rs8531aw-individual-page/>

### **RocketStor 8631CW PCIe Gen5 x16 eGPU Expansion Chassis**

<https://www.highpoint-tech.com/rs8631cw-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.