

## HighPoint's RS654x Series NVMe RAID Enclosures are the Fastest External Storage Solutions for Professional Media Editing/Rendering Applications

**March 2025 – Fremont, CA** - HighPoint RocketStor 654x Series NVMe RAID Enclosures are revolutionary external storage solutions designed to meet the demanding needs of professional media post-production, content creation, and high-performance computing applications. These enclosures offer unparalleled speed, reliability, and capacity, redefining the standards for external storage in video editing, 3D rendering, and other high-demand workflows. Measuring less than 5" tall and 10" long, the compact external solution can be easily integrated into any Windows or Linux PC workstation or server platform with a free PCIe x16 slot, requiring minimal working space. Despite their small footprint, the RS654x Series enclosures deliver industry-leading performance, making them the ideal choice for Professional media workstations, Edge Computing, High-Performance Computing (HPC), and Industrial Computing environments.



### Key Features

**Real-world transfer speeds up to 28GB/s:** RocketStor 654x series enclosures leverage HighPoint's proven NVMe RAID and PCIe Switching Technology to deliver blazing fast 28GB/s transfer speeds. This unmatched performance ensures that even the most demanding applications, such as 8K video editing, 3D rendering, and high-performance computing, run smoothly and efficiently. The advanced PCIe 4.0 x16 Switch Architecture guarantees dedicated, high-bandwidth connections to each NVMe SSD, minimizing latency and maximizing throughput. Meanwhile, HighPoint's battle-tested NVMe RAID technology optimizes data distribution, redundancy, and fault tolerance, ensuring consistent and reliable performance under the most intensive workloads.

**Ultra-compact, Industrial Grade external enclosures:** The RS654x Series Standing less than 5" tall and 10" in length, these enclosures are designed to fit seamlessly into any professional workspace. Despite their compact size, they can support nearly 1 petabyte of storage capacity, making them the perfect solution for data-intensive applications.

**Advanced Cooling system eliminates thermal throttling without unwanted noise:** The enclosures feature a robust cooling system that ensures optimal operating temperatures while maintaining a quiet working environment.

The integrated power supply and advanced cooling system isolate the NVMe media from host platform, enhancing reliability and offloading power and thermal loads from the computing environment.

**Built-in RAID 0, 1, and 10 technology:** HighPoint's industry-proven NVMe RAID technology provides unparalleled flexibility, enabling administrators to easily craft, maintain and scale RAID storage to address the unique requirements of each target application and workflow. Whether you need the speed of RAID 0, the redundancy of RAID 1, or the combined benefits of RAID 10, the RS654x Series offers flexible storage solutions to meet your needs.

**Innovative PCIe Switching Architecture:** The enclosures utilize industry-proven PCIe switching technology to minimize latency and deliver dedicated host-to-device PCIe 4.0 x16 connectivity. This ensures that all connected devices operate at their maximum potential, with minimal bottlenecks.

**Simple and robust 400Gbps CDFP connectivity:** The RS654x Series features high-speed CDFP (CXL/PCIe) connectivity, which maximizes signal quality and reliability. This ensures that data is transferred quickly and securely, even in the most demanding environments.

**Unmatched Scalability:** The RS654x Series' integrated NVMe Hot-Swap capability simplifies storage expansion, upgrade and service workflows by enabling administrators to add, remove or replace U.2/U.3 media on the fly, minimizing the risk of downtime by removing the need to reboot or power down the host platform.

**Ideal for professional Media Post Production and Content Creation:** These enclosures are specifically designed for 4K and 8K video editing, 3D rendering, and other high-resolution applications. They provide the speed and reliability needed to handle large files and complex projects with ease.

## In Summary

HighPoint's RS654x Series NVMe RAID Enclosures are the ultimate storage solutions for professionals in media post-production, content creation, and high-performance computing. With their blazing-fast transfer speeds, ultra-compact design, and advanced features, these enclosures set a new standard for external storage solutions. Whether you're working on 4K video editing, 3D rendering, or other data-intensive applications, the RS654x Series has the power and flexibility to meet your needs.

## Learn More

**RocketStor 6542AW – 8-Bay PCIe Gen4 x16 NVMe RAID Enclosure**

<https://www.highpoint-tech.com/nvme-enclosure/rs6542aw>

**RocketStor 6541AW – 4-Bay PCIe Gen4 x16 NVMe RAID Enclosure**

<https://www.highpoint-tech.com/nvme-enclosure/rs6542aw>



### **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.