

HighPoint Unveils RocketStor 6500 Series: The High-Performance/High-Capacity JBOF Storage Solutions

February 2025, Fremont CA - HighPoint Technologies has unveiled the RocketStor 6500 product line, a new series of Next-Generation external NVMe JBOF (just a bunch of flash) Storage devices designed to eliminate the performance bottlenecks and cost overhead associated with conventional SAN/NAS based solutions.

Designed for high-performance, data-intensive applications and compact industrial/edge computing environments, RocketStor 6500 JBOF series solutions employ discrete external PCIe adapters, 400Gbps CDFP cabling and proven PCIe Switching Technology to deliver x16 lanes of transfer bandwidth with near Zero Latency and optimal signal clarity for up to eight NVMe drives and nearly 1 petabyte of storage capacity.

The World's Smallest 4-Bay & 8-Bay External NVMe Storage Solutions

Designed for professional applications that demand the highest possible storage performance and capacity in a small-footprint form factor, Rocket 6500 Series JBOF solutions stand less than 5 inches tall, but are capable of supporting petabyte storage at speeds up to 56GB/s.

Of particular note, the series includes the world's smallest 4-bay storage solution, the RocketStor 6541AW, which measures only 4.84" tall and 6.10" long yet supports near half a petabyte of storage capacity! The compact, all-one approach to NVMe storage expansion is ideal for small form-factor computing platforms that cannot support intel 2.5" drive bays, and can easily accommodate AI/ML, HPC, media production, and enterprise storage applications.

Proven PCIe Switch Technology Delivers Maximum Bandwidth with Near-Zero Latency

Rocket 6500 Series JBOF solutions are powered by HighPoint's proven PCIe Switching Technology to deliver uncompromised data transfer speed with nearly zero latency. The revolutionary hardware architecture leverages Broadcom's industry leading Switch ICs to allocate x4 lanes of dedicated bandwidth for each NVMe drive to deliver the maximum possible transfer performance over a single PCIe slot, and enable concurrent or independent operation on demand.

Lower TCO vs. Traditional Storage

RocketStor 6500 series simple, all-in-one design eliminates the need for costly SAN infrastructure and fiber channel dependencies. The form-factor is modular and portable by design, enabling customers to quickly add petabyte storage capacity to any platform with PCIe x16 connectivity.

The enterprise grade solution consists of a compact external storage chassis with 4 to 8 removable 2.5" NVMe drive trays, a discrete low-profile PCIe adapter, and CDFP 400Gbps cabling which provides a robust, dedicated x16 connection between the host platform and external NVMe drives.

Flexible Storage Management & Deployment

Designed to accommodate a wide array of deployment requirements, computing environments and workloads, RocketStor 6500 JBOF solutions are available in two distinct varieties: the Switch Series with **Native NVMe driver support, or the RAID solution, armed with HighPoint's proven NVMe RAID technology.**

Switch series solutions benefit from simple plug& play installation, which greatly simplifies deployment and service workflows. The enclosure and hosted NVMe drives are automatically recognized by all modern Linux and Windows based OS platforms, and require no device driver or software application to function or perform optimally. Native support is ideal for environments that employ 3rd party SDS (software deployed storage) to manage NVMe assets, and will be treated as ordinary, physical drives.

RocketStor 6500 RAID series solutions utilize HighPoint's industry leading NVMe RAID technology, and can support one or more RAID 0, 1 and 10 arrays, including bootable volumes. A comprehensive management and monitoring suite enables administrators to keep close tabs on the operational status and physical characteristics of all hosted NVMe drives, including temperature, voltage, and endurance, and optimize storage configurations for specific applications and workloads by prioritizing transfer performance, capacity or reliability.

Unparalleled Scalability & Modularity

Flexible expansion supports petabyte-scale storage. Available with 4 or 8 independent drive bays, RocketStor 6500 JBOF solutions can support petabyte-scale storage configurations comprised of enterprise and DC-grade NVMe SSDs. The robust single-cable external connectivity and discreet PCIe adapters enable RocketStor 6500 solutions to be easily integrated into any x86 AMD/Intel or AMD computing platform with a free PCIe x16 slot.

RAID series solutions provide hot-swap capability, enabling administrators to move SSDs or entire arrays between multiple systems or upgrade/replace NVMe storage without downtime.

For enterprises seeking **next-gen performance with superior flexibility**, RocketStor 6500 is the industry's ultimate **JBOF NVMe storage solution.**

Product Information

[RocketStor 6541AW 4-Bay NVMe RAID Enclosure](#)

Includes: PCIe Adapter, Enclosure with 4x 2.5" drive trays, 1x CDFP-CDFP-1M Cable, Quick Installation Guide (QIG) and UL Cable

MSRP: USD \$1299.00

RocketStor 6542AW 8-Bay NVMe RAID Enclosure

Includes: PCIe Adapter, Enclosure with 8x 2.5" drive trays, 1x CDFP-CDFP-1M Cable, Quick Installation Guide (QIG) and UL Cable

MSRP: USD \$1799.00

RocketAIC 6542AWW Turnkey Enterprise-Class External NVMe RAID Storage Solution (491.52TB)

Includes: PCIe Adapter, Enclosure with 8x preconfigured Solidigm D5-P5336 SSDs , 1x CDFP-CDFP-1M Cable, Quick Installation Guide (QIG) and UL Cable

MSRP: USD \$78,999.00