



Rocket 1504
PCIe 4.0 x16 4-Port M.2 NVMe HBA



Cost-Effective, High-Performance 4-Port PCIe Gen4 M.2 NVMe

HighPoint Rocket Series NVMe connectivity HBAs address the needs of solution providers and system integrators that cater to vertical marketplaces for high-speed industrial, corporate, and media applications. They were designed for professional applications that demand uncompromised storage performance, scalability and adaptability, in a compact, easy to integrate package that is universally compatible with industry standard x86-64 (Intel/AMD), Mac and ARM platforms.

The Rocket 1504 is a cost-effective, high-performance 4-Port PCIe Gen4 NVMe connectivity solution. The four independent device ports can support off-the-shelf M.2 SSDs of any capacity.

Performance-Focused NVMe Hardware Architecture

HighPoint NVMe connectivity HBAs benefit from decades of engineering and design expertise, and are capable of saturating x16 lanes of PCIe Gen4 or Gen3 host bandwidth. The highly flexible, performance-focused NVMe hardware architecture leverages intelligent PCIe switch technology to allocate up to x4 lanes to each device port, as needed.

Native, In-Box NVMe Device Driver Support

HighPoint NVMe HBA's were designed with simplicity in mind. All you need is a little patience and a screwdriver; just install the M.2 SSDs and plug in the card!

Rocket 1500 Series HBA's are natively supported by all major Windows and macOS operating systems, VMware ESXi and current distributions of Linux. You won't need to juggle a series of device drivers, install a complex software suite, or master a specialized management interface. Your NVMe SSDs will be automatically recognized, and can be prepped and mounted using the operating system's standard tool set.

Ultra-High-Performance NVMe Storage Solution

R1500 Series NVMe HBAs can host RAID arrays created using the operating systems built-in storage management tools. macOS Disk Utility and Windows Disk Management can configure RAID 0 or JBOD arrays using two or more M.2 SSDs.

Supports any Off-the-Shelf M.2 NVMe SSD

Any Capacity, Any Generation & Any Form-Factor...

The Rocket 1504's four M.2 ports are capable of supporting industry standard off-the-shelf M.2 NVMe SSDs of any capacity.

NAND Form Factor: Single & Double-Sided

M.2 Form Factor: 2280, 2260, 2242, 22110

Advanced Gen4 Cooling System Eliminates Thermal Throttling

HighPoint's Low-Noise Hyper-Cooling solution eliminates the risk of thermal throttling by ensuring PCIe Gen4 NVMe SSDs consistently operate within their recommended temperature thresholds, even under sustained heavy I/O.

Each Rocket 1504 HBA features a full-length anodized aluminum heat sink equipped with an ultra-durable, low-decibel fan and high-conductivity thermal padding.

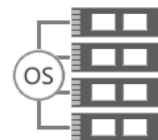
This innovative, ultra- efficient cooling system rapidly transfers waste heat away from critical NVMe and controller componentry, without introducing unwanted distraction into your work environment.

Key Benefits

- Up to 4 NVMe SSDs
- Fully compliant with Industry standard PCIe 3.0 Slots; no-Bifurcation dependency or need for specific brand/model of motherboards
- Integrated, Intelligent, Next-Gen PCIe 4.0 Switch technology ensures Dedicated PCIe4 lanes of bandwidth are allocated to each M.2 Slot at all times
- Native, in-box NVMe driver support for all major OS platforms
- Broad Compatibility with current computing platforms: HP, Dell, Alienware, Legacy Mac Pro, 2019 Mac Pro, Apple M1 Platforms
- Card can be used in any slot PCIe 3.0 or 4.0 slot; Bifurcation or standard
- Gen4 Hyper Cooling Solution



R1500 HBAs can host bootable NVMe SSD's when used with Legacy Mac Pro 5.1 systems and macOS 10.x or earlier.



R1500 HBAs support OS-based RAID, which can be configured using the operating system's default storage management interface.

Product	R1508
Bus Interface	PCI-Express 4.0 x16
Number of Channels / Devices	4x M.2 NVMe ports (Dedicated x4 lanes per port)
Data Transfer Rate	16GT / 16Gbps per lane
SSD Form Factor	2242/2260/2280/22110
Form Factor	Full-Height
Card Dimensions	7.68"(W) x 4.41"(H) x 0.81"(D)
Card Weight	1.32 lbs.
Supported Operating Systems & Platforms	
Windows	Windows 11, 10 / Windows Server 2022, 2019 / Microsoft Hyper-V
Linux	Linux Kernel v3.10 or later
macOS	MacOS 10.13 and later
FreeBSD	FreeBSD 12.1 and later
VMware	ESXi 6.7 and later
System Requirements	Mac Platforms: <ul style="list-style-type: none"> • Apple Mac Pro Systems: 2012; 5.1, 7.1 (2019) • Apple M1 Platform compatible • Thunderbolt™ 3 Connectivity via Thunderbolt™ Expansion chassis: RocketStor6661A
	PC Platforms: <ul style="list-style-type: none"> • Any PC or Motherboard with an industry standard PCIe x16/x8 physical Slot (Bifurcation is not required) • Thunderbolt™ 3 Connectivity (requires a PC platform with a Thunderbolt™ 3 port) & Thunderbolt™ Expansion chassis: RocketStor6661A
Cooling	Full-Length Anodized Aluminum Heat sink with built-in Low-Noise fans
Operating Environment	
Work Temp	+5°C ~ + 55°C
Storage Temp	-20°C ~ +80°C
Operating Voltage	PCI-e: 12V, 3.3V
Power	Typical: 17.72W
MTBF	920,585 Hours
Certification	CE, FCC, RoHS, REACH, WEEE
Kit Contents	R1504
	QIG



Compact, Self-Contained M.2 Solution:

The M.2 SSD's are directly hosted by the R1500 HBA; no additional drive bays or



Ultra-High Performance:

Dedicated PCIe 4.0 x16 Bus-Bandwidth



R1504 NVMe HBAs are Thunderbolt™ compliant, and can be installed into PCIe expansion chassis, such as the RocketStor 6661A.

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