



Rocket 1000 Series PCIe Gen3 NVMe HBA's

Dedicated x16 Bandwidth & Low-Noise Cooling System

Fully Independent NVMe Solution - No Bifurcation Required

No Bifurcation Required: Works with any Industry Standard PCIe 3.0/4.0 Slot!

HighPoint NVMe HBA's are compatible with a wide range of hardware platforms. The PCIe 3.0 host interface is fully compliant with industry standard PCIe 3.0 and 4.0 PCIe slots, does not require a host platform with Bifurcation support, and is not limited to a specific brand or model of motherboard.

Built-in High-speed, Intelligent Switch Chipset

HighPoint NVMe HBA's integrated Broadcom high-performance intelligent PCIe switch chipset, which ensures maximum transfer bandwidth is available for each device port, at all times. Up to x4 dedicated lanes can be allocated to each M.2 NVMe SSD.

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 SSD's and plug in the card!

Rocket 1000 Series HBA's are natively supported by all major operating systems, including Windows 10, Windows Server 2019, macOS Big Sur, 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 SSD's will be automatically recognized, and can be prepped and mounted using the operating system's standard tool set.

Ultra-High-Performance NVMe Storage Solution

Rocket 1000 Series NVMe HBA's 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 arrays using up to 8 M.2 drives.

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

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

Rocket 1000 series M.2 ports are capable of supporting any industry standard off-the-shelf M.2 NVMe SSD

NAND Form Factor: Single & Double-Sided

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

Ultra-Efficient Cooling Systems

The Rocket 1101 features a full-length anodized aluminum casing, with an integrated cooling fan and high-conductivity thermal cooling pad. This ultra-efficient, low-noise cooling system was designed to keep critical controller componentry and hosted NVMe SSD's within their temperature thresholds, even under sustained, full-load.

Low-Noise Hyper Cooling Solution

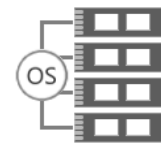
The Rocket 1108 employs our new ultra-efficient, Hyper-Cooling solution designed specifically for large M.2 configurations. The Hyper-Cooling system combines a high-conductivity thermal pad with an anodized aluminum heatsink equipped with dual built-in, low noise fans. This design ensures the M.2 SSDs, NVMe chipset and RAID componentry remain cool, even under heavy load, while minimizing the risk of distraction in the work environment.

Key Benefits

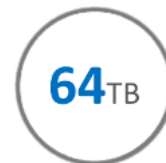
- Fully compliant with Industry standard PCIe 3.0 Slots; no-Bifurcation dependency or need for specific brand/model of motherboards
- Integrated, High-Performance Intelligent, PCIe Switch controller chipset powered by Broadcom ensures Dedicated PCIe x4 lane bandwidth is allocated to each M.2 Slot at 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
- Low-Noise, Hyper Cooling Solution



R1000 HBA's can host bootable NVMe SSD's when used with Legacy Mac Pro 5.1 systems and macOS 10.x or earlier.



R1000 HBA's support OS-based RAID, which can be configured using the operating system's default storage management interface.



The R1140 HBA can support up to 8 M.2 NVMe SSD's of any form-factor.

	R1101	R1108
Product		
Bus Interface	PCI-Express 3.0 x16	PCI-Express 3.0 x16
Number of Channel / Port	4x M.2 NVMe port (Dedicated PCIe 3.0 x4 per port)	8x M.2 NVMe port (up to PCIe 3.0 x4 per port)
Data Transfer Rate	8GT / 8Gbps per lane	8GT / 8Gbps per lane
Number of device	4x M.2 NVMe SSDs	8x M.2 NVMe SSDs
SSD Form Factor	2242/2260/2280/22110	2242/2260/2280/22110
Form Factor	Full-Height	Full-Height
Card Dimensions	8.31" (L) x 4.37" (H) x 0.67" D	11.22"(L)*4.37"(H)*0.83"(D)
Package Weight	1.37 lbs.	1.70 lbs.
Operating System	<ul style="list-style-type: none"> Windows 10 or later Linux Kernel 3.10 or later MacOS 10.13 or later (Big Sur & Apple M1 platform support) FreeBSD 12.1 and later 	
Cooling	Low-Noise Design: Aluminum casing with integrated thermal pad & cooling fan	Low-Noise Design: Full-Length Anodized Aluminum Heat sink with built-in Low-Noise fan
Operating Environment		
Work Temp	+5°C ~ + 35°C	+5°C ~ + 35°C
Storage Temp	-20°C ~ +80°C	-20°C ~ +80°C
Operating Voltage	PCI-e: 12V, 3.3V	PCI-e: 12V, 3.3V
Power	Typical: 17.72W	Typical: 17.72W
MTBF (Mean Time Before Failure)	920,585 Hours	920,585 Hours
Certification / Approval	CE, FCC, RoHS, REACH, WEEE	CE, FCC, RoHS, REACH, WEEE
Kit Contents	R1101 QIG	R1108 QIG



Compact, Self-Contained M.2 Solution:

The M.2 SSD's are directly hosted by the R1000 HBA; no additional drive bays or enclosures are required.



Ultra-High Performance:

Dedicated PCIe 3.0 x16 Bus-Bandwidth



R1000 Series NVMe HBA's are Thunderbolt™ compliant, and can be installed into PCIe expansion chassis, such as the RocketStor 6661A.

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