HighPoint Technologies, Inc.

# Rocket 1204

*PCIe 3.0 x8 4-Port M.2 NVMe HBA*

## *Cost-Effective 4-Channel PCIe Gen3 M.2 NVMe Connectivity Solution*

R1000 Series NVMe HBAs are fully independent, stand-alone NVMe storage solutions for PCIe Gen3 platforms; they are not tied to a specific motherboard, chipset or operating system, can be easily integrated into any motherboard or server/workstation platform with a free PCIe 3.0/4.0 x16 or x8 slot, and are capable of supporting off-the-shelf M.2 NVMe SSDs of any capacity.
The Rocket 1204 is a cost-effective, 4-channel M.2 NVMe connectivity solution that can be easily integrated into any PCIe Gen3 platform with a free PCIe x8 0r x16 slot. The four independent device ports can support off-the-shelf M.2 SSDs of any capacity.

### Built-in High-speed, Intelligent Switch Chipset

The Rocket 1204 NVMe HBA's performance-focused hardware architecture leverages intelligent PCIe switch technology to ensure maximum transfer bandwidth is available for each device port, at all times. Up to x4 lanes of host bandwidth can be allocated to each M.2 NVMe SSD, on the fly.

### Native, In-Box NVMe Device Driver Support

HighPoint NVMe HBAs 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 HBAs are natively supported by all major Windows and macOS operating system platforms, 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.

### 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 2 or more NVMe SSDs.

### 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

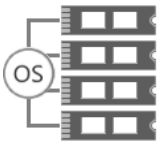
### Fan-less Cooling for Media Sensitive Working Environments

Rocket 1204 HBAs feature a ventilated bracket and full-length black-anodized heat sink with high- conductivity thermal pad efficiently whisks waste heat away from hosted SSDs and critical controller componentry.

This robust, fan-less design allows for completely silent operation – ideal for applications that require low-noise work environments.

### *Key Benefits*

- Up to 4 NVMe SSDs
- PCIe 3.0 x8 Host Interface
- Fully compliant with Industry standard PCIe 3.0 Slots; no-Bifurcation dependency or need for a specific brand/model of motherboard
- Integrated, High-Performance, Intelligent PCIe Switch technology can allocate up to x4 dedicated lanes to each M.2 Slot
- 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
- Silent, Fan-less Cooling System




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

# HighPoint Rocket 1000 Series Gen 3 M.2 NVMe HBAs

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|---|---|
| **Product** | **Rocket 1204 (R1204)**  |
| **Bus Interface** | PCI-Express 3.0 x8 |
| **No. of Channels/Ports** | 4x M.2 NVMe port (Dedicated PCIe 3.0 x4 per port) |
| **Data Transfer Rate** | 8 GT/s |
| **Number of devices** | 4x M.2 NVMe SSDs |
| **SSD Form Factor*** | 2242/2260/2280/22110 |
| **Form Factor** | Full-Height |
| **Card Dimensions** | 7.68" (W) x 4.38" (H) x 0.73" (D) |
| **Package Weight** | 1.39 lbs. |
| **Cooling** | Full-length anodized aluminum heat sink |
| **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:**<br>• Apple Mac Pro Systems: 2012; 5.1, 7.1 (2019)<br>• Apple M1 Platform compatible<br>• Thunderbolt™ 3 Connectivity via Thunderbolt™ Expansion chassis: RocketStor6661A |
| | **PC Platforms:**<br>• Any PC or Motherboard with an industry standard PCIe x16/x8 physical Slot (Bifurcation is not required)<br>• Thunderbolt™ 3 Connectivity (requires a PC platform with a Thunderbolt™ 3 port) & Thunderbolt™ Expansion chassis: RocketStor6661A |
| **Operating Environment** | |
| **Work Temp** | +5°C ~ + 35°C |
| **Storage Temp** | -20°C ~ +80°C |
| **Operating Voltage** | PCI-e: 12V, 3.3V |
| **Power** | Typical: 7.65W |
| **MTBF** | 920,585 Hours |
| **Certification** | CE, FCC, RoHS, REACH, WEEE |
| **Kit Contents** | R1204 |
| | QIG |

** Supports single and double-sided M.2 NVMe SSDs*

**Compact, Self-Contained M.2 Solution:**

M.2 SSDs are directly hosted by HBA (no drive bays or enclosure is required)

***Ultra-High Performance***:

Dedicated PCIe 3.0 x8 or x16 Bus-Bandwidth

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