



## Rocket 1120

PCIe 3.0 x16 4-Port U.2 NVMe HBA



## Fast & Versatile 8-Channel PCIe Gen3 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 NVMe SSDs of any capacity.

The Rocket 1120 is a versatile, high-performance NVMe connectivity HBA for PCIe 3.0 host platforms. The four independent device ports can support U.2/U.3 or M.2 NVMe SSDs via a range of cabling solutions.

### 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. Just install the SSDs and plug in the card!

Rocket 1000 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

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 Industry Standard U.2/U.3 NVMe SSD

#### Any Capacity & Any Generation

Rocket 1000 series M.2 ports are capable of supporting any industry standard U.2/U.3 NVMe SSD

**Form Factor:** 2.5" U.2/U.3, M.2 (*via cabling accessories and compatible backplanes*).

### Versatile Cabling Solutions

The Rocket 1120 works with a variety of industry standard connectors – not just SFF-8639, which is employed directly by U.2 media. We offer a selection of cabling accessories capable of supporting a wide range of storage configurations, including SFF-8643 connections and SFF-8611 Oculink backplanes. This allows the Rocket 1180 to support any industry standard U.2 or M.2 NVMe SSD.


### Ultra-Efficient Silent Cooling System

The Rocket 1120 features a full-length fan-less, anodized aluminum heat sink for completely silent operation; ideal for high-performance media applications that require a controlled, quiet working environment.

### Key Benefits

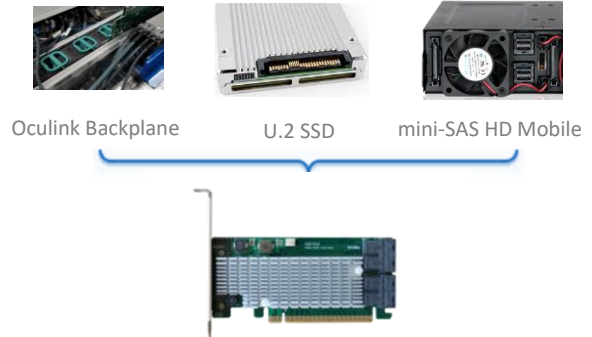
- Up to 4 NVMe SSDs
- PCIe 3.0 x16 Host Interface
- Fully compliant with Industry standard PCIe 3.0 Slots; no-Bifurcation dependency or need for a specific brand/model of motherboard
- Integrated, High-Performance, Intelligent PCIe technology ensures Dedicated PCIe x4 lane bandwidth is allocated to each U.2 port 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
- Versatile Cabling Solutions: SFF-8639, SFF-8643 & SFF-8611 (Oculink)



<b>Product</b>	<b>Rocket 1120 (R1120)</b>
	
<b>Bus Interface</b>	PCI-Express 3.0 x16
<b>No. of Channels/Ports</b>	4x U.2 NVMe port (x4 lanes per port)
<b>Data Transfer Rate</b>	8GT/s
<b>Number of devices</b>	4x NVMe SSDs
<b>SSD Form Factor</b>	2.5" U.2/U.3, M.2
<b>Form Factor</b>	Half-Height (Low-Profile)
<b>Card Dimensions</b>	5.71" (W) x 2.72" (H) x 0.68" (D)
<b>Package Weight</b>	0.60 lbs.
<b>Cooling</b>	Full-Length Anodized Aluminum Heat sink with built-in Low-Noise fan
<b>Supported Operating Systems &amp; Platforms</b>	
<b>Windows</b>	Windows 11, 10 / Windows Server 2022, 2019
<b>macOS</b>	MacOS 10.13 and later
<b>Linux</b>	Linux Kernel v3.10 or later
<b>FreeBSD</b>	FreeBSD 12.1 and later
<b>VMware</b>	ESXi 6.7 and later
<b>System Requirements</b>	<b>PC Platforms:</b> <ul style="list-style-type: none"> <li>Any PC or Motherboard with an industry standard PCIe x16 physical Slot (Bifurcation is not required)</li> </ul>
	<b>Mac Platforms:</b> <ul style="list-style-type: none"> <li>Apple Mac Pro Systems: 2012; 5.1, 7.1 (2019)</li> <li>Apple M1 Platform compatible</li> </ul>
<b>Operating Environment</b>	
<b>Work Temp</b>	+5°C ~ + 35°C
<b>Storage Temp</b>	-20°C ~ +80°C
<b>Operating Voltage</b>	PCI-e: 12V, 3.3V
<b>Power</b>	Typical: 7.43W
<b>MTBF</b>	920,585 Hours
<b>Certification</b>	CE, FCC, RoHS, REACH, WEEE
<b>Kit Contents</b>	R1120
	QIG
	Low-Profile bracket




### Industry Standard SFF-8643 Connector Ports

The Rocket 1120 and 1180 utilize industry standard SFF-8643 connectors, which are compatible with a wide selection of 2.5" form-factor server chassis available in today's marketplace. SFF-8643 connectors can accept cables of varying length, which allow the controllers be easily integrated into custom built hardware environments.



### HighPoint Certified Cable & Enclosure Accessories

We manufacture a selection of certified data cables and enclosures for Rocket 100 series NVMe HBAs. HighPoint Certified Cable accessories are fully compliant with all current technology standards and have been rigorously tested with our Rocket 1120 and Rocket 1180 host bus adapters to ensure maximum transfer performance, secure connectivity, and ease of integration. As we cannot guarantee secure connectivity, stability or compatibility with unqualified third-party devices or accessories, only HighPoint Certified cables and enclosures can be used with our storage products and solutions.

<b>SSD7180 &amp; SSD7184 (Internal)</b>	
<p><b>8643-8643-0350 / 8643-8643-060</b></p> 	<p>SFF-8643 NVMe Host to SFF-8643 NVMe HD-Mini-SAS Device (U.2) cables Length: 13.78" (35cm) / 23.62" (60cm)</p>
<p><b>8643-8639-50</b></p> 	<p>SFF-8643 to SFF-8639 NVMe HD-Mini-SAS Device (U.2) cable, with Power Connector Length: 19" (50cm)</p>
<p><b>OLX4-8643-061</b></p> 	<p>SFF-8643 NVMe Host to Oculink backplane cable Length: 23.62" (60cm)</p>