HighPoint
Technologies, Inc.

Rocket 1180 (R1180)

8x U.2 Port to PCIe 3.0 x16 NVMe HBA

Quick Installation Guide

V1.00

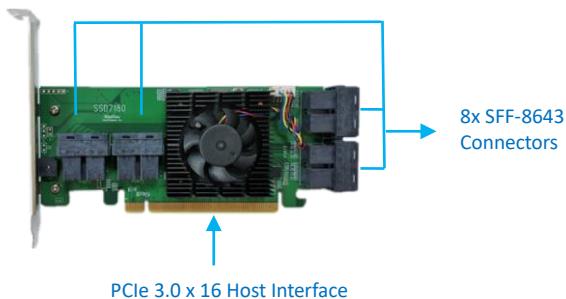**System Requirements**

PC Requirements

- System with a free PCIe 3.0 (or 4.0) x16 slot
- Windows 11, 10 / Server 2022, 2019, 2016, Microsoft Hyper-V
- RHEL/Debian/Ubuntu/Fedora/Proxmox/Xenserver (Linux kernel 3.10 and later)
- FreeBSD 12.1 and later

R1180 Kit Contents
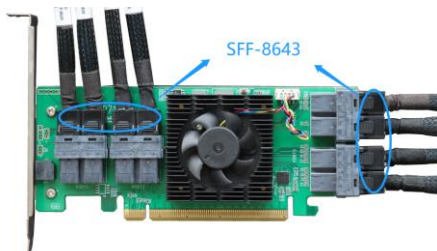
- R1180 Controller Card
- Quick Installation Guide

R1180 Hardware

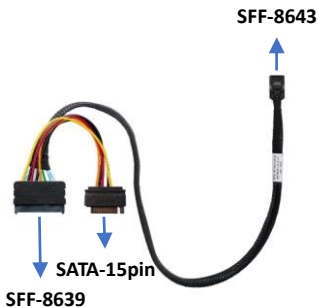**Front View**

8x SFF-8643 Connectors

PCIe 3.0 x 16 Host Interface

R1180 Hardware Installation

Step 1: The R1180 was designed for use with SFF-8643 to U.2 SFF-8639 cables that have 15-pin SATA power connectors. Each of the R1180's eight device ports accept an SFF-8643 cable connection.

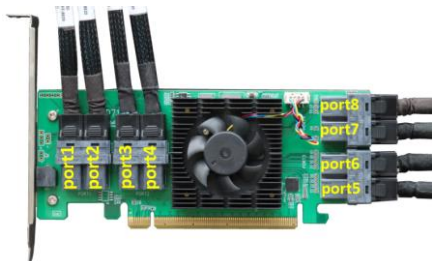SFF-8643

SFF-8643

SATA-15pin

SFF-8639

Step 2: Shown above is a SFF-8643 to U.2 SFF-8639 cable with a 15-pin SATA power connector. The SFF-8639 port should be connected to the NVMe SSD's U.2 port. The 15 pin SATA power connector should be connected to the system's power supply.

Step 3: Insert the R1180 card into one of the motherboard's open PCI-E 3.0 x16 or PCI-E 4.0x16 slots.

Step 4: The R1180's eight device ports are ordered sequentially; from left to right, and bottom to top:

Note: *Please make sure the cables are securely connected to the R1180's device ports and the NVMe SSDs or backplane. Loose connections can lead to a variety of problems including instability, slower than expected performance and dropped disks.*
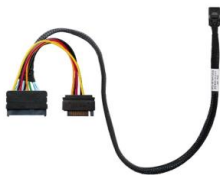
Optional Certified Cable

R1180 (Internal)	
8643-8643-0350	SFF-8643 NVMe Host to SFF-8643 NVMe HD-Mini-SAS Device (U.2) cable Length: 13.78" (35cm)
8643-8639-50	SFF-8643 to SFF-8639 NVMe HD-Mini-SAS Device (U.2) cable, with Power Connector Length: 19" (50cm)
OLX4-8643-061	SFF-8643 NVMe Host to Oculink backplane cable Length: 23.62" (60cm)

Resources

We recommend visiting the Software Downloads webpage for the latest drivers, management interfaces, and installation guides.

Document Downloads:

https://www.highpoint-tech.com/hba-gen3-nvme-m2

Customer Support

If you encounter any problems while utilizing the R1180, or have any questions about this or any other HighPoint Technologies, Inc. product, feel free to contact our Customer Support Department.

Web Support:

https://www.highpoint-tech.com/support-and-services

HighPoint Technologies, Inc. websites:

https://www.highpoint-tech.com