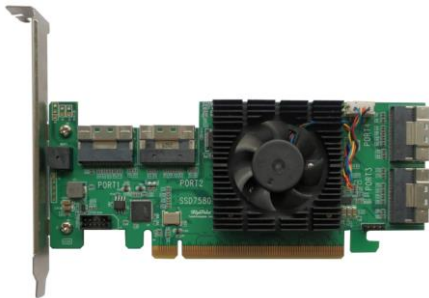


# Rocket 1580 (R1580)

8x U.2 Port to PCIe 4.0 x16 NVMe HBA



## Quick Installation Guide

V1.00

## **System Requirements**

### **PC Requirements**

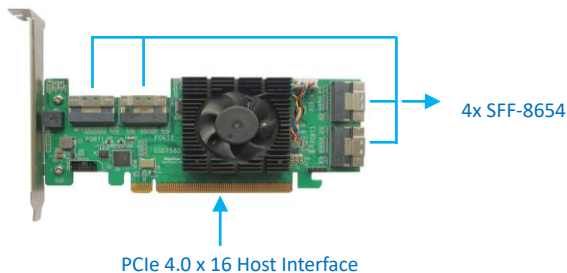
- System with a free PCIe 4.0 (or 3.0) x16 slot
- Windows 11, 10 / Server 2022, 2019, 2016, Microsoft Hyper-V
- RHEL/Debian/Ubuntu/Fedora/Proxmox/Xenserver (Linux kernel 3.10 and later)
- FreeBSD 12.1 and later

### **R1580 Kit Content**

- R1580 Controller Card
- Quick Installation Guide

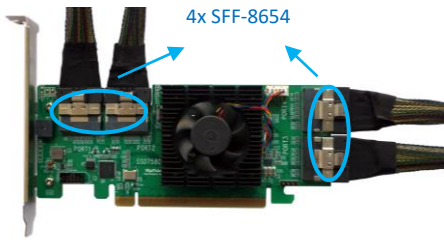
# R1580 Hardware

## Front View



## Hardware Installation

**Step 1:** The R1580 provides four device ports which utilize SFF-8654 connectors. These ports accept a variety of HighPoint Certified Cable Accessories (see the Accessories section towards the end of this guide for more information). The following procedure explains how to connect U.2 NVMe SSDs directly to the R1580 using HighPoint TS8i-8639-060 NVMe cables.



SFF-8654

**TS8i-8639-060 NVMe cable**



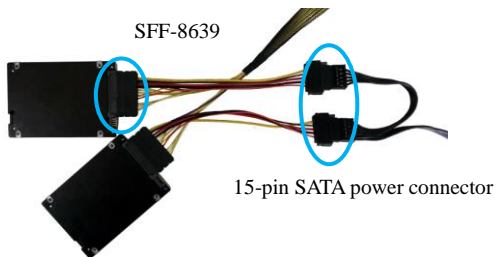
SFF-8639

**Step 2:** Connecting the SSDs using TS8i-8639-060 cables. 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 R1580 controller into one of the motherboard's open PCI-E 4.0 x16 slots.



**Step 4:** As described in step 2, connect the SFF-8639 cable connectors to the U.2/U.3 SSDs. Next, connect the SFF-8654 cable connector to one of the R1580's four device ports (Ports 1 through 4)



**Step 5:** Connect the remaining NVMe SSDs to the R1580 as described above. Once complete, Power on the system.

***Note:** Please make sure the cables are securely connected to the R1580'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 Accessories

**8654-8643-210**



**SFF-8654 to SFF-8643 NVMe cable,  
1 meter length**

The 8654-8643-210 is SFF-8654 (host) to SFF-8643 (device) PCIe 4.0 x8 NVMe cable, and each cable can host up to 2x NVMe SSDs.

**8654-8611-205**



**SFF-8654 to SFF-8611 NVMe cable, 0.5  
meter length**

The 8654-8611-205 is SFF-8654 (host) to SFF-8611 (device) PCIe 4.0 x8 NVMe cable, and each cable can host up to 2x NVMe SSDs via an SFF-8611 Oculink connection.



**TS8i-8639-060**



**SFF-8654 to SFF-8639 cable,  
0.6meter length**

The SFF-8654 to U.2 SFF-8639 cable with a 15-pin SATA power connector. Each cable supports two U.2 NVMe SSDs.

## **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-gen4-nvme-u2>

## **Customer Support**

If you encounter any problems while utilizing the R1580, 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>

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