HighPoint
Technologies, Inc.
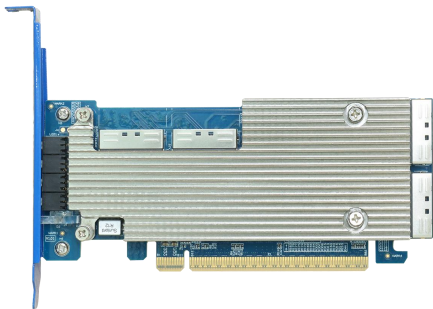
Rocket 7628U (R7628U)

8x NVMe Port to PCIe 5.0 x16 NVMe RAID Adapter

Quick Installation Guide

V1.00

System Requirements

PC Requirements

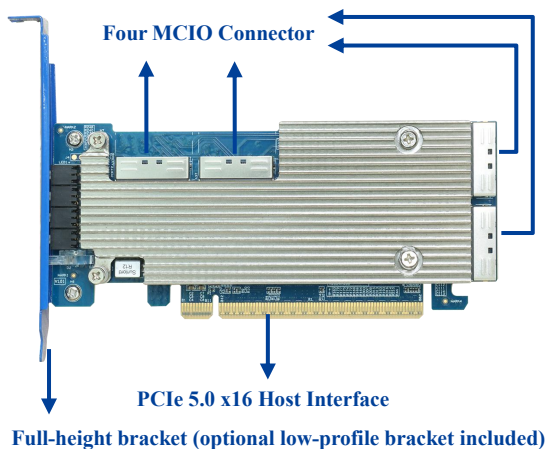- System with a free PCIe5.0 (or 3.0 or 4.0) x16 slot

Operating System

- Windows 10 and later
- Windows Server 2016 and later
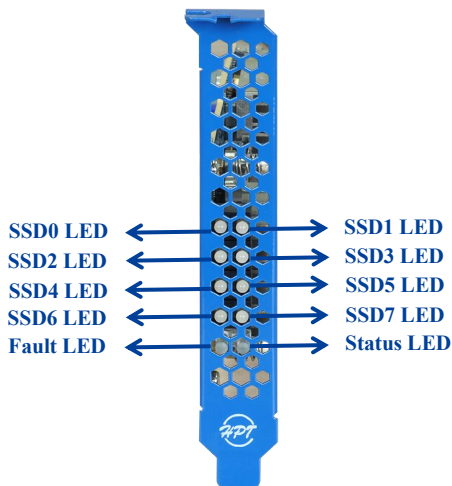- RHEL/Debian/Ubuntu/Fedora/Proxmox/Rocky Linux

R7628U Kit Content

- 1x R7628U NVMe RAID Adapter
- 1x Quick Installation Guide
- 1x Low Profile Bracket

R7628U Hardware

Front View

Four MCIO Connector

PCIe 5.0 x16 Host Interface

Full-height bracket (optional low-profile bracket included)

LED View

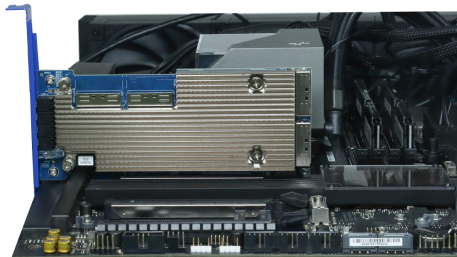|	
SSD0 LED ←	→ SSD1 LED
SSD2 LED ←	→ SSD3 LED
SSD4 LED ←	→ SSD5 LED
SSD6 LED ←	→ SSD7 LED
Fault LED ←	→ Status LED

Note: Please refer to the detailed description of LED colors and their status in the R7628U NVMe RAID Adapter User Guide on the official website.

Hardware Installation

The R7628U provides four MCIO connectors. These connectors accept a variety of HighPoint Certified Cable Accessories (see the Accessories section towards the end of this guide for more information). The following steps explain how to connect U.2 NVMe SSDs directly to the R7628U using HighPoint CIO8-8639-110 cable.
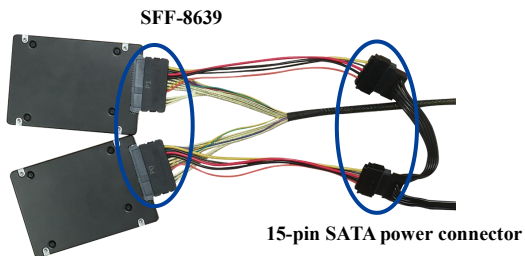
1. Use a wired ESD wrist strap that is properly grounded.
2. Unpack and remove the R7628U and check it for damage. If it appears damaged, please get in touch with HighPoint Technical Support.
3. Shut down the system and disconnect the AC power cord.

4. Align the R7628U to one of the motherboard's available slots. Press down gently but firmly to seat the R7628U correctly in the slot.
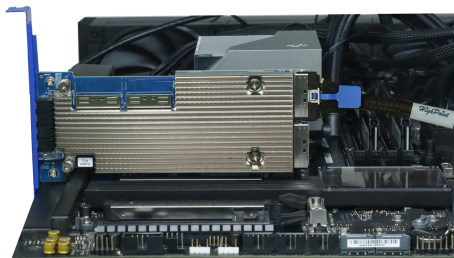

Note: Replace the full-height bracket on the R7628U with the optional low-profile bracket if required by your system.

5. Connect the SFF-8639 connector of the CIO8-8639-110 cable to the NVMe SSD, and connect the 15-pin SATA power connector to the power supply.

SFF-8639

15-pin SATA power connector

6. Connect the MCIO connector of the CIO8-8639-110 cable to the R7628U.

7. Connect the remaining NVMe SSDs to the R7628U as described above.

8. Turn on the power to the system.

Note: Please ensure the cables are securely connected to the R7628U's device ports and the NVMe SSDs or backplanes. Loose connections can lead to various problems, including instability, slower-than-expected performance, and dropped disks.

Optional Certified Cable Accessories

CIO8-8639-110	MCIO (x8) Host to U.2 SFF-8639 Device cable with a 15-pin SATA power connector. Each cable supports two NVMe SSDs. Length: 1M (100cm)/39.37"
CIO8-CIO8-110	MCIO (x8) Host to MCIO (x8) Device cable. Each cable can host up to two NVMe SSDs. Length: 1M (100cm)/39.37"
8654-CIO8-110	MCIO Host to SFF-8654 Device cable. Each cable can host up to two NVMe SSDs. Length: 1M (100cm)/39.37"

CIO8-1002-110	MCIO Host to SFF-TA-1002 Device cable with a 15-pin SATA power connector. Each cable supports two NVMe SSDs. Length: 1M (100cm)/39.37"

Resources

A variety of guides are available for the R7628U NVMe RAID Adapter.

For Documentation and more information about this product, please visit the following website:

https://www.highpoint-tech.com/nvme-raid-adapter/gen5/rocket-7628a

Certified Accessories:

https://www.highpoint-tech.com/nvme-accessories

Customer Support

If you encounter any problems while utilizing the R7628U or have questions about this or any other HighPoint Technologies, Inc. product, please contact our Customer Support Department.

Web Support:

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

HighPoint Technologies, Inc. websites:

https://www.highpoint-tech.com