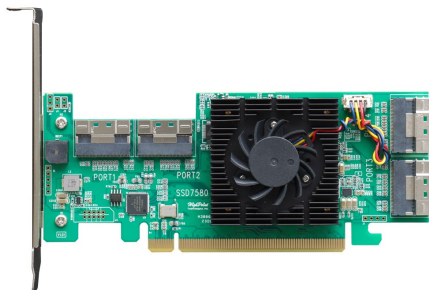*HighPoint*

Technologies, Inc.

SSD7580C

8x U.2 Port to PCIe 4.0x16 NVMe RAID Controller

Quick Installation Guide

V1.00

## System Requirements

PC Requirements

- System with a free PCIe4.0 (or 3.0 or 5.0) x16 slot

- Windows 11, 10 / Server 2022, 2019, 2016/ Microsoft Hyper-V

- RHEL/Debian/Ubuntu/Fedora/Proxmox/Rocky Linux
  (Linux kernel 3.10 and later)

SSD7580C Kit Content

- 1x SSD7580C Controller Card

- 1x Quick Installation Guide

- 1x Low Profile Bracket

SSD7580C Hardware

Front View

Port 1 Port 2

Port 4

Port 3

PCIe 4.0 x16 Host Interface
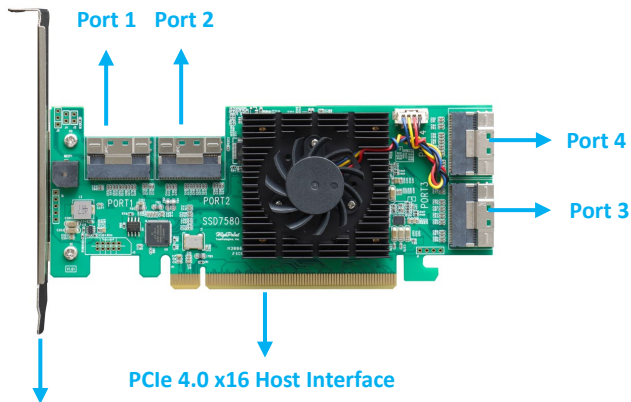
Full-Height bracket (optional low-profile bracket included)

Hardware Installation

1. The SSD7580C 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 SSD7580C using HighPoint TS8i-8639-060 NVMe cables.
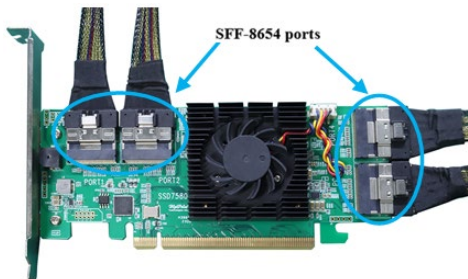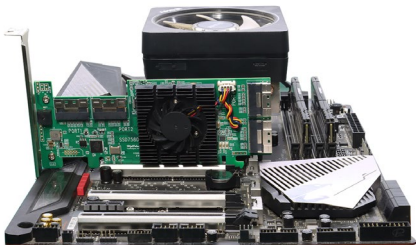

SFF-8654 ports

SFF-8654   **TS8i-8639-060 NVMe cable**
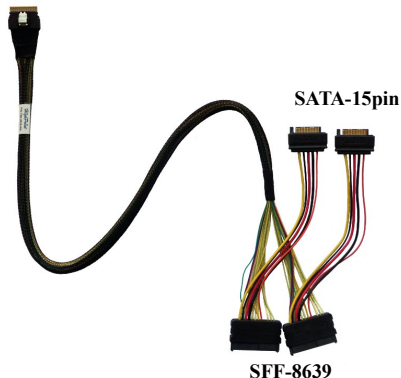
**SATA-15pin**

SFF-8639

2. Shown above is an SFF-8654 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.

3. Insert the SSD7580C controller into one of the motherboard's open PCI-E 3.0/ 4.0/ 5.0 x16 slots.

4. Connect two pieces of NVMe SSDs with SFF-8639 port, and connect SFF-8654 port to SSD7580C. Connect the 15-pin SATA power connector to the system's power supply.
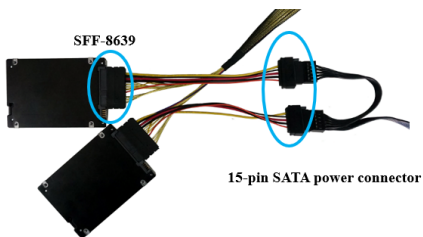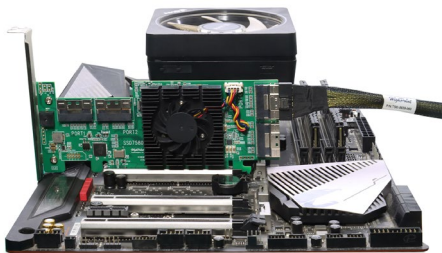
5. Connect the remaining NVMe SSDs to the SSD7580C controller as described above. Once complete, Power on the system.

Notes:

Please make sure the cables are securely connected to the SSD7580C'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 broken RAID arrays or dropped disks.

Make sure the controller's device driver has been installed before physically installing the controller and NVMe SSDs. Driver and RAID Management Installation Guides are available from the

Documentation section of the product's webpage.

If you encounter any problems with damaged parts (e.g. fans, screws, etc.) during use, you need to contact our customer support team for professional help and guidance to avoid unexpected situations. You will be responsible for all the consequences of solving the problem by yourself.

Optional Certified Cable Accessories

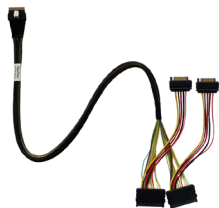| 8654-8643-210	SFF-8654 Host to SFF-8643 Device cable. Each cable can host up to 2x NVMe SSDs. **Length:** 1M (100cm)/39.37"
8654-8611-205	SFF-8654 (host) to SFF-8611 Oculink Device cable. Each cable can host up to 2x NVMe SSDs. **Length:** 0.5M (50cm) /19"

TS8i-8639-060	SFF-8654 Host to U.2 SFF-8639 Device cable with a 15-pin SATA power connector. Each cable supports two U.2 NVMe SSDs. **Length:** 0.6M (60cm)/23.62"
8654-8654-110	SFF-8654 to SFF-8654 cable. Each cable can host up to two NVMe SSDs. **Length:** 1M (100cm)/39.37"

8654-CIO8-110	
	SFF-8654 Host to MCIO 8i Device cable. Each cable can host up to two NVMe SSDs. **Length:** 1M (100cm)/39.37"

Resources

A variety of manuals, guides and FAQs are available for the SSD7580C RAID controller.

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

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

https://www.highpoint-tech.com/nvme1/ssd7580c

Certified Accessories:

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

FAQ & Troubleshooting:

FAQ - HighPoint Technologies, Inc. (helpjuice.com)

Customer Support

If you encounter any problems while utilizing the SSD7580C, 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