HighPoint
Technologies, Inc.

SSD7580A

PCIe Gen4 x16 8-Port U.2 NVMe RAID Controller
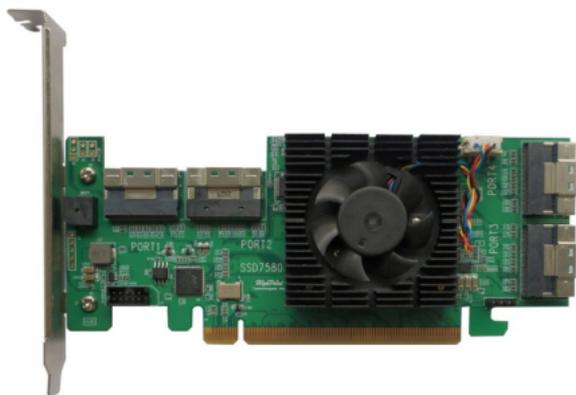
Quick Installation Guide

V1.03

## System Requirements

PC Requirements

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

- Windows 11, 10 / Server 2022, 2019, 2016, 2012R2 / Microsoft Hyper-V

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

- Arch Linux (Kernel 5.17.5 and above)

SSD7580A Kit Content

- SSD7580A Controller Card

- Quick Installation Guide

SSD7580A Hardware

Front View

Port 1 Port 2

Port 3

Port 4

PCIe 4.0 x16 Host Interface
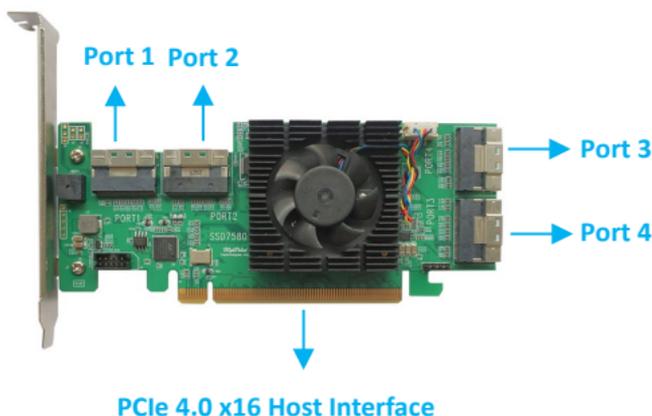
Hardware Installation

1. The SSD7580A 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 SSD7580A using HighPoint TS8i-8639-060 NVMe cables.
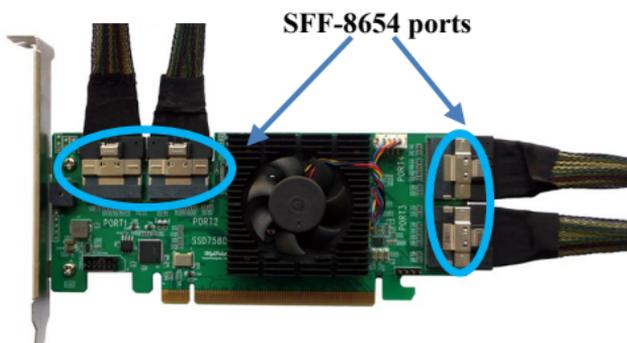
SFF-8654 ports

SFF-8654

TS8i-8639-060

NVMe cable
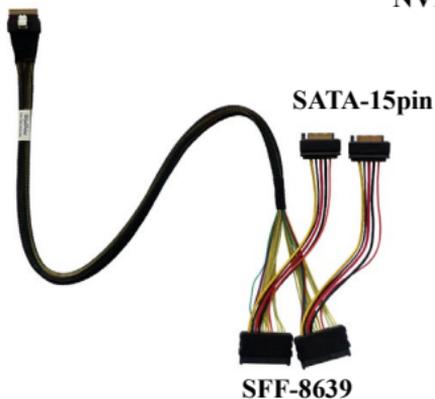
SATA-15pin

SFF-8639

2. Shown above is a 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 SSD7580A controller into one of the motherboard's open PCI-E 4.0x16 slots.

4. Connect two pieces of NVMe with SFF-8639 port, and connect SFF-8654 port to SSD7580A. Connect the 15-pin SATA power connector to the system's power supply.

SFF-8639

15-pin SATA power connector
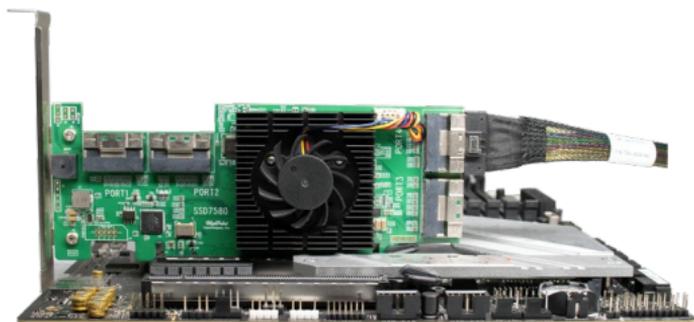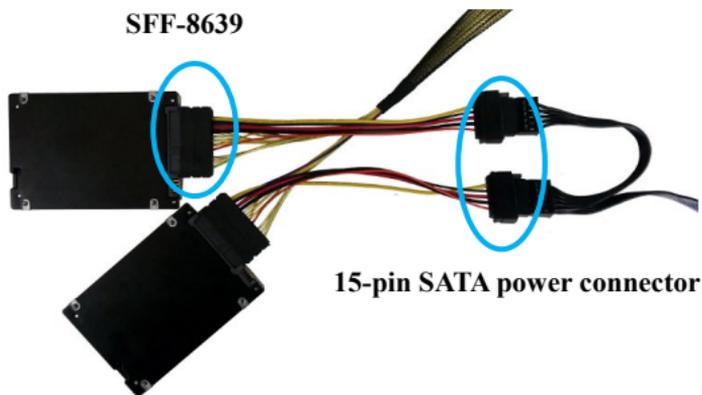
5. Connect the remaining NVMe SSDs to the SSD7580A controller as described above. Once complete, Power on the system

Note: *Please make sure the cables are securely connected to the SSD7580A'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.*

Note: *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.*

Optional Certified Cable Accessories

8654-8643-210	**SFF-8654 to SFF-8643 NVMe cable, 1meter length** The 8654-8643-210 is external 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, 0.5meter length** The 8654-8611-205 is external 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.

Resources

A variety of manuals, guides and FAQ's are available for the SSD7580A 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/gen4-nvme-u2

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 SSD7580A, 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