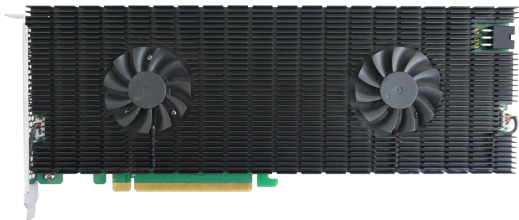# SSD7540

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

Quick Installation Guide

V1.10

System Requirements
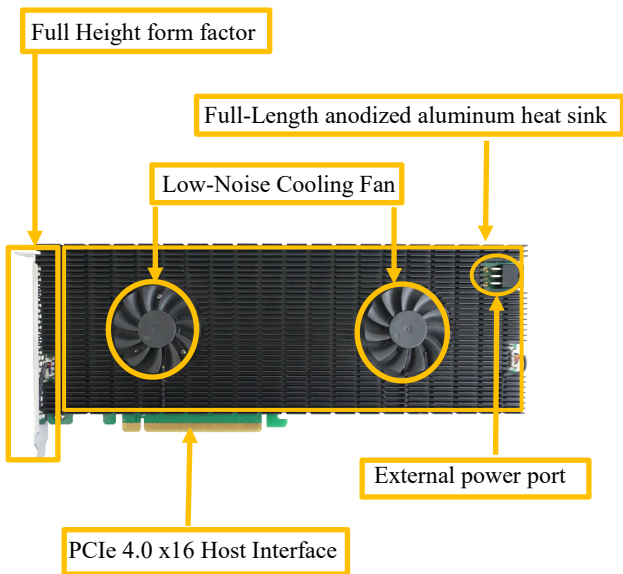
PC Requirements

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

- Windows 10 and later

- Windows Server 2016 and later

- RHEL/ Debian/ Ubuntu/ Fedora/ Proxmox/ Rocky Linux

- macOS

SSD7540 Kit Content

- SSD7540 Controller Card
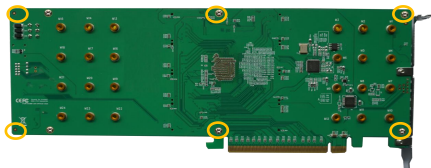
- Quick Installation Guide

SSD7540 Hardware

Front View

Full Height form factor

Full-Length anodized aluminum heat sink

Low-Noise Cooling Fan

External power port

PCIe 4.0 x16 Host Interface

Hardware Installation

Step 1. On the rear of the SSD7540, remove the six screws that secure the unit's heat sink to the PCB.

Step 2. Carefully remove the fan's power cable from the right-side of the heatsink as shown below, then carefully flip the heatsink to the left (like turning a page from a book).
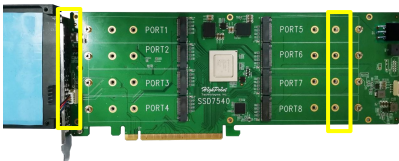Note: Take care when moving the heatsink to prevent damaging the left fan's power cable.
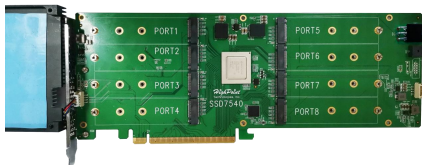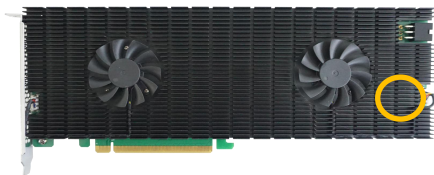
Step 3. After removing the casing, carefully turn it over to view the thermal pad. The blue films must be removed from the pad before reinstalling the panel.

Step 4. These 8 screws are used to install the NVMe SSDs.

Step 5. Please remove these screws from each of the M.2 slots.
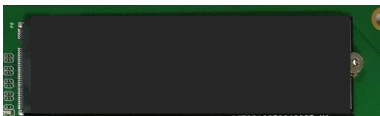

Step 6. Gently insert the SSD into the slot.

Note: Please make sure all disks are clean before you insert them into the slot to avoid unexpected situations.

Step 7. Refasten the screw to secure the SSD.

Repeat Steps 5 to 7 to install the remaining SSDs.

The following example shows eight Gen4 SSDs installed into Ports 1-8:


Step 8. After installing all SSDs, carefully flip the heatsink to the right.
Note: Make sure the SSDs are carefully, but securely installed into each M.2 port. Loose connections can cause a variety of stability and performance issues, and may ultimately result in data loss.

Step 9. Carefully reinsert in the power supply cable of the cooling fan that was removed in step 2.
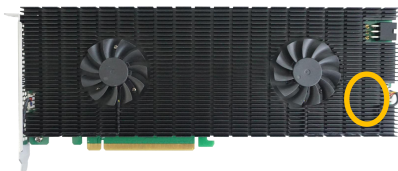
Step 10. On the rear of the SSD7540, refasten the 6 screws that were removed in step 1.
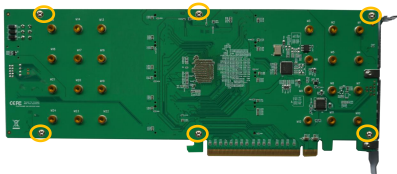

Note: Make sure the aluminum cover is properly aligned with the controller board (PCB), and that it makes full contact with the thermal pad, before refastening it to the SSD7540. If the cover is improperly installed, the fan and thermal pad will be unable to sufficiently cool the NVMe SSDs and controller componentry, which may result in damage to the SSDs or controller hardware, performance loss, unstable I/O, and the loss of data.

Step 11. Insert the SSD7540 into an available PCIe slot.

Step 12. Turn on the power to the system.

Note: In case the motherboard PCIe slot has insufficient power, connect the 6-pin PCIe power cable to the external power connector on the right side of the SSD7540 before turning on the system's power.
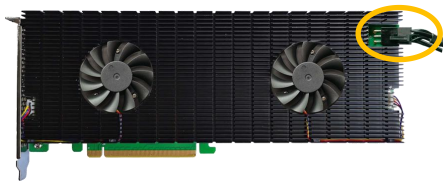
Resources

A variety of manuals, guides and FAQ's are available for the SSD7540 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/ssd7540

FAQ & Troubleshooting:

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

Customer Support

If you encounter any problems while utilizing the SSD7540, 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