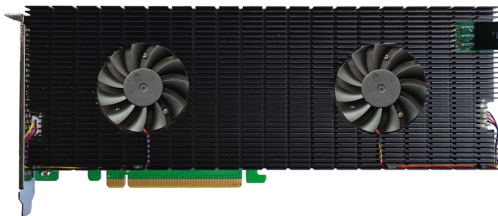*HighPoint*
Technologies, Inc.

SSD7540

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

Quick Installation Guide

V1.04

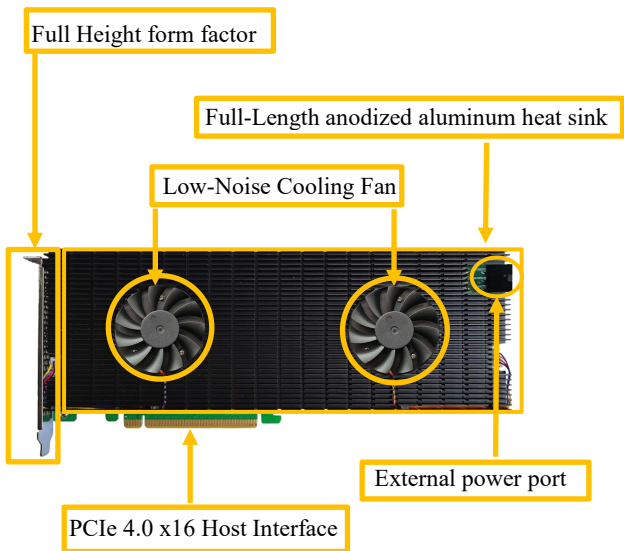## System Requirements

PC Requirements

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

- Windows 10, Windows Server 2016 and Windows Server 2019

- Linux kernel 3.10 and later

- macOS 10.13 and later

SSD7540 Kit Content

- SSD7540 Controller Card
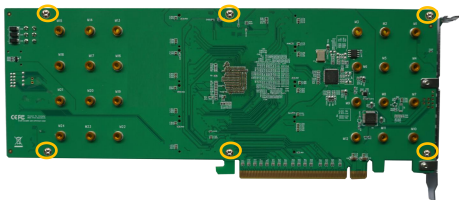
- Quick Installation Guide

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
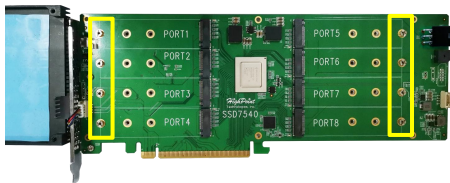the unit's heat sink to the PCB.

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
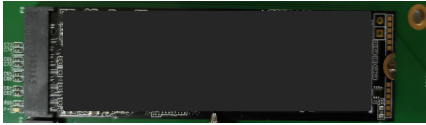the left fan's power cable.*
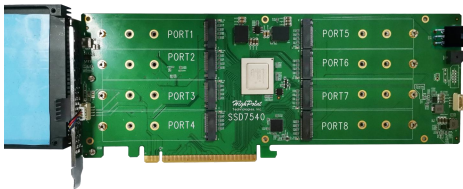
Step 3. These 8 screws are used to install the NVMe SSD's.

Step 4. Please remove these screws from each of the M.2 slots.

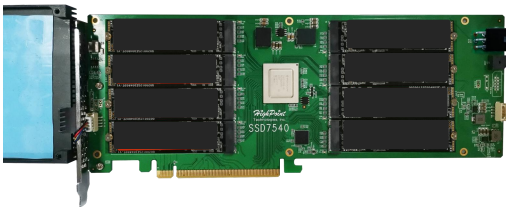Step 5. Gently insert the SSD into the slot.

Step 6. Refasten the screw to secure the SSD.

Repeat Steps 3 to 6 to install the remaining SSDs.

The following example shows four SSD FireCuda PCIe Gen4 SSDs and four Sabrent PCIe Gen4 SSDs installed into Ports 1-8:

Step 7. After installing all SSDs, carefully flip the heatsink to the right.

Note: Make sure each SSD is carefully aligned and fastened to the SSD7540 using the supplied screws. Loosely attached SSDs may not be detected by the SSD7540 or host system.

Step 8. Carefully reinsert in the power supply cable of the cooling fan that was removed in step 2.

Step 9. On the rear of the SSD7540, refasten the 6 screws that were removed in step 1.
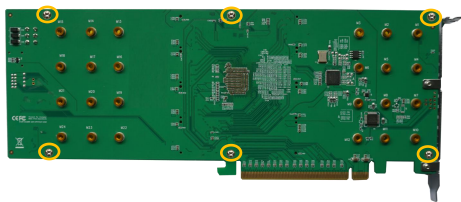
Note： Make sure the aluminum cover is properly aligned with the

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 SSD's and controller componentry, which may result in damage to the SSD's or controller hardware, performance loss, unstable I/O, and the loss of data.

Step 10. Power up the SSD external power supply

Note: If the external power supply is not powered on, the SSDs may drop offline or remain undetected, which could lead to data loss.
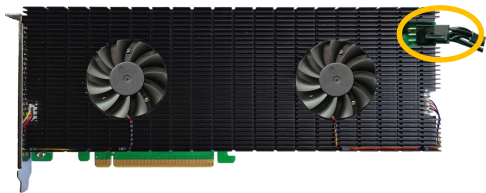
SSD7540 relies on two power sources to support eight SSDs; power supplied through the PCIe bus, and power from the system's PSU via an external 6 pin PCIe power cable. If the external cable is not connected, there will be insufficient power to support all 8 SSD's; this may cause the SSDs to drop offline.

Note：*The SSD7540 does not require the external power cord when used with Mac Pro 2019.*

Connect 6 pin PCIe power cable
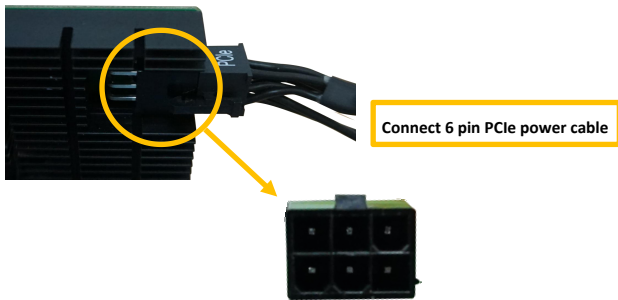
Note: *Please be sure to connect NVMe before using the product to reduce the occurrence of unnecessary errors!*

Note: *Install the driver in the system first and then install the board！*

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.

Download link:

SSD7540 Driver, WebGUI, Installation Guides

https://highpoint-tech.com/USA_new/series-ssd7500-download.htm

Other Reference Information:

Mother Board & NVMe SSD Compatibility List
SSD7540 User Guides
https://highpoint-tech.com/USA_new/series-ssd7500-resource.htm

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/websupport/main.php

HighPoint Technologies, Inc. websites:

https://www.highpoint-tech.com