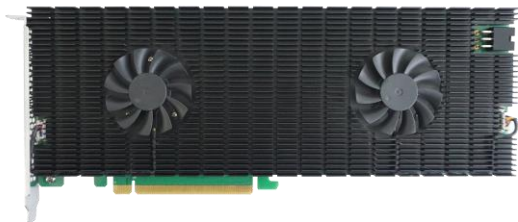


# R1108

**8x M.2 Port to PCIe 3.0x16 NVMe HBA**



## **Quick Installation Guide**

**V1.00**

# **System Requirements**

## **PC Requirements**

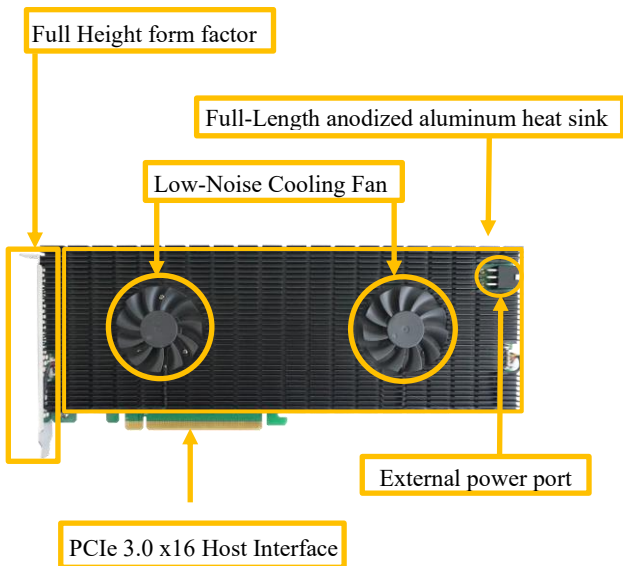
- System with a free PCIe3.0 (or 4.0) x16 slot
- Windows 10 and 11, Windows Server 2019 and Windows Server 2022
- Linux kernel 3.10 and later
- macOS 10.13 and later
- FreeBSD 12.1 and later

## **R1108 Kit Content**

- R1108 Controller Card
- Quick Installation Guide

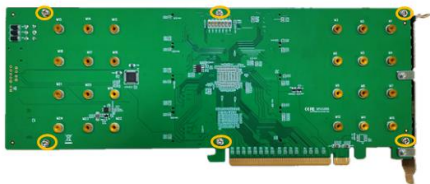
## R1108 Hardware

### Front View



## Hardware Installation

Step 1. On the rear of the R1108, remove the six screws that secure the unit's heat sink to the PCB.



Step 2. Carefully remove 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. This will expose the two thermal pads. The blue film must be removed from each pad before reinstalling this panel. This film protects the pads from damage and foreign objects prior to installation, but will also prevent the pad from transferring heat away from the NVMe SSD's and controller componentry.



Step 4. These 8 screws are used to install the NVMe SSD's.



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 4 to 6 to install the remaining SSDs.

The following example shows eight M.2 NVMe SSDs installed into Ports 1-8:

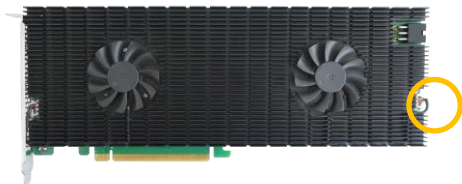


Step 8. After installing all SSDs, carefully flip the heatsink to the right.

**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.

**Note:** Make sure the heatsink/fan panel is properly aligned with the controller board (PCB), and that it makes full contact with the thermal pads before refastening it to the NVMe HBA. If the heatsink is improperly installed, it 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 9. Carefully reinsert in the power supply cable of the cooling fan that was removed in step 2.



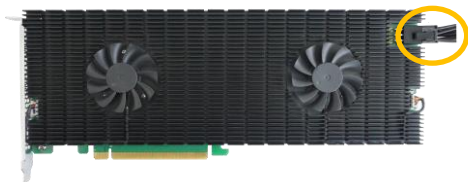
Step 10. On the rear of the R1108, refasten the 6 screws that were removed in step 1.



Step 11. Power up the SSD external power supply

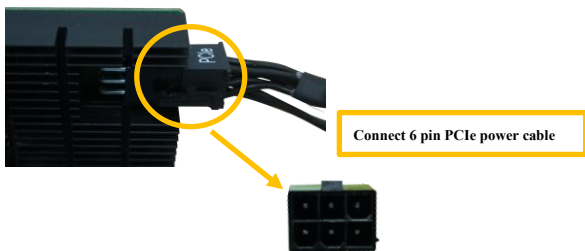
**Note:** *If the external power supply is not powered on, the SSDs may drop offline or remain undetected, which could lead to data loss.*





R1108 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 R1108 does not require the external power cord when used with 2019 Mac pro systems.*



## Resources

We recommend visiting the R1108 Series Product Page for the latest documentation.

### Document Downloads:

<https://www.highpoint-tech.com/ssd/series-r1100-fan-overview.html>

## Customer Support

If you encounter any problems while utilizing the R1108, 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>

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