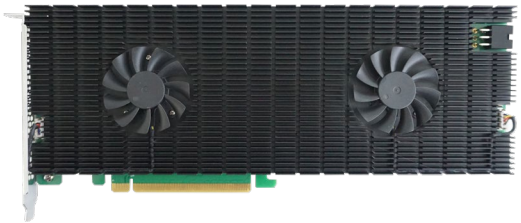
HighPoint Technologies, Inc.

Rocket 1108A (R1108A)

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



Quick Installation Guide

V1.00

System Requirements

PC Requirements

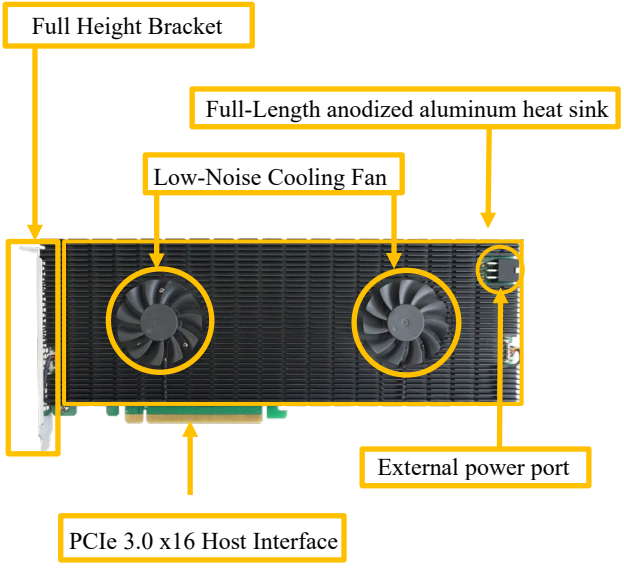
- Any PC System or Motherboard with an industry standard PCIe x16 physical slot
- VMware vSphere/ESXi
- Red Hat Enterprise Linux
- SuSE Linux
- Ubuntu Linux
- Citrix XenServer
- CentOS Linux
- Debian Linux
- Oracle Enterprise Linux
- Fedora
- FreeBSD

R1108A Kit Content

- 1x R1108A
- 1x Quick Installation Guide

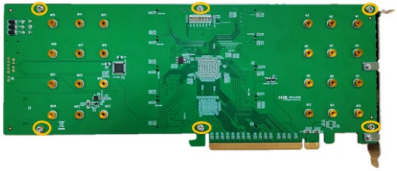
R1108A Hardware

Front View

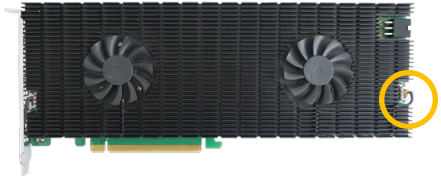


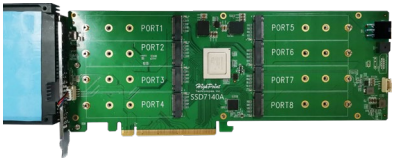
R1108A Hardware Installation

Step 1. On the rear of the R1108A, remove the six screws that secure the unit's heat sink to the PCB.



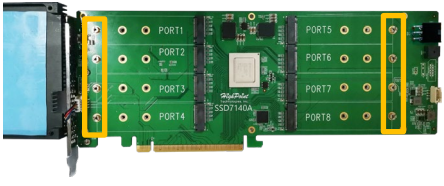
Step 2. After removing the screws, carefully remove fan's power cable from the right-side of the heatsink as shown below, then carefully flip the heatsink to the left (like turning a page from a book).
Note: *Take care when moving the heatsink to prevent damaging the left fan's power cable.*





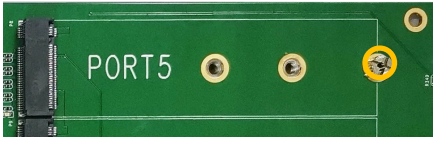
Step 3. After removing the casing, carefully turn it over to view the thermal pads. The blue film must be removed from each pad before reinstalling the panel. The film protects the pads from damage and foreign objects prior to installation. However, it will also prevent the thermal pad from conducting the heat away from the NVMe SSDs if not removed.

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



The R1108A can support 2242, 2260, and 2280 form factor M.2 NVMe SSDs.

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



Step 6. Gently insert the NVMe SSD into the M.2 slot.

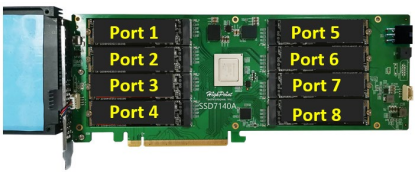
Note: *If the NVMe SSDs were used previously, make sure the connectors are clean and free of dust prior to installation.*

Step 7. Refasten the screw to secure the NVMe SSD.

Repeat Steps 5 to 7 to install the remaining NVMe SSDs.

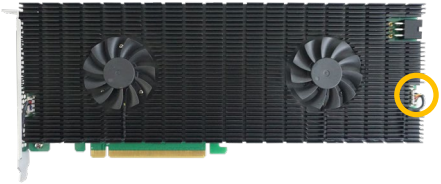
Note: *Make sure the NVMe SSDs are carefully, but securely installed into each M.2 slot. Loose connections can cause a variety of stability and performance issues, and may ultimately result in data loss.*

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

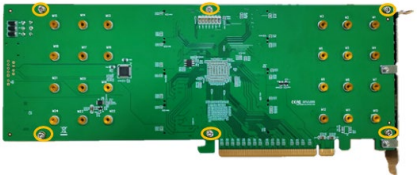


Step 8. After installing all SSDs, carefully flip the heatsink to the right.

Step 9. Carefully reinsert in the power supply cable of the cooling fan that was removed in step 2.



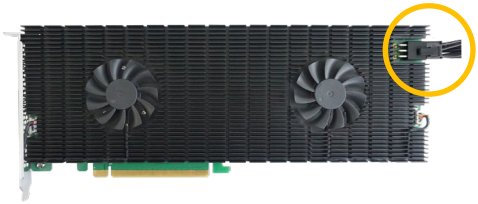
Step 10. On the rear of the R1108A, refasten the 6 screws that were removed in step 1.



Note: *Make sure the aluminum cover is properly aligned with the HBA board (PCB), and that it makes full contact with the thermal pad, before refastening it to the R1108A. If the cover is improperly installed, the fan and thermal pad will be unable to sufficiently cool the NVMe SSDs and HBA componentry, which may result in damage to the SSDs or HBA hardware, performance loss, unstable I/O, and the loss of data.*

Step 11. Power up the NVMe SSD external power supply.

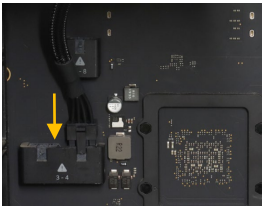
Note: *If the external power supply is not powered on, the NVMe SSDs may drop offline or remain undetected, which could lead to data loss.*



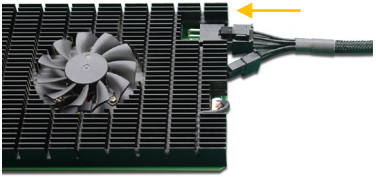
The R1108A relies on two power sources to support eight NVMe SSDs; power supplied through the PCIe bus, and power from the system's PSU via an external 6 pin PCIe power cable. If the external cable is not connected, there will be insufficient power to support all 8 NVMe SSDs; this may cause the SSDs to drop offline.

Step 12. If you are using a 2019 Intel Mac Pro Workstation or 2023 M2 Mac Pro Workstation, you will need to purchase the Belkin AUX Power Cable Kit from the Apple Store. The kit includes seven AUX power cables; four 8-pin to 6+2 pin cables (for use with the Rocket 1108A), two 6-pin to 6-pin cables, and a single 8-pin to dual 6-pin cable.

a. Connect the 8-pin power connector of the Belkin AUX Power Cable to the 2019 Intel Mac Pro Workstation.



b. Connect the 6-pin power connector of the Belkin AUX Power Cable to the side of the R1108A.



Resources

A variety of manuals, guides and FAQs are available for the R1108A NVMe HBA.

Document Downloads:
https://www.highpoint-tech.com/nvme-aic/r1108a

FAQ & Troubleshooting:

FAQ - HighPoint Technologies, Inc.

Customer Support

If you encounter any problems while utilizing the R1108A NVMe HBA, or have any questions about this or any other HighPoint Technologies, Inc. product, feel free to contact our Customer Support Department.

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