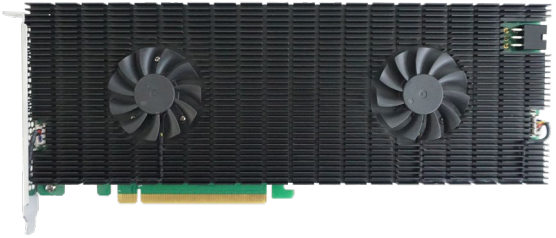
HighPoint Technologies, Inc.

Rocket 1508 (R1508)

8x M.2 Port to PCIe 4.0 x16 NVMe HBA



Quick Installation Guide

V1.02

System Requirements

PC Requirements

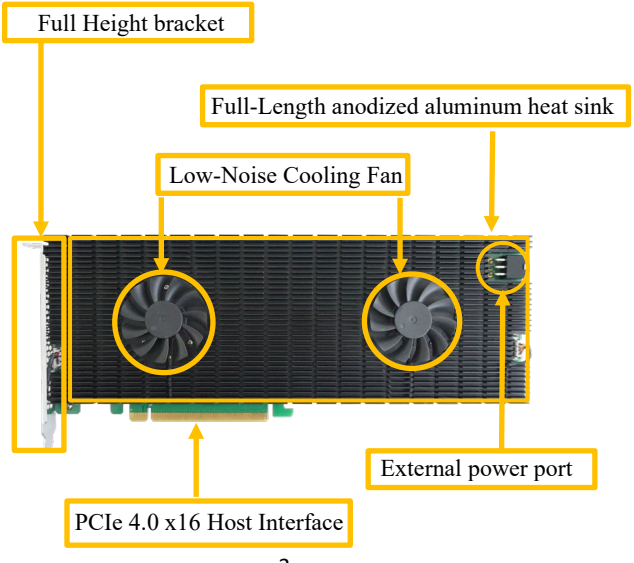
- Any PC System or Motherboard with an industry standard PCIe x16 physical slot
- Microsoft Windows
- VMware vSphere/ESXi
- Red Hat Enterprise Linux
- SuSE Linux
- Ubuntu Linux
- Citrix XenServer
- CentOS Linux
- Debian Linux
- Oracle Enterprise Linux
- Fedora
- FreeBSD
- macOS

R1508 Kit Content

- 1x R1508
- 1x Quick Installation Guide

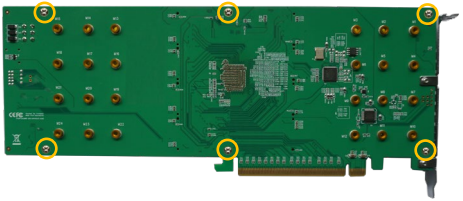
R1508 Hardware

Front View



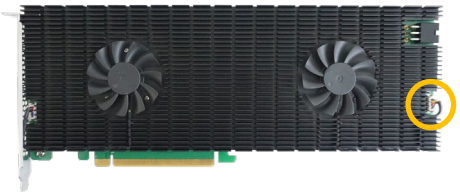
R1508 Hardware Installation

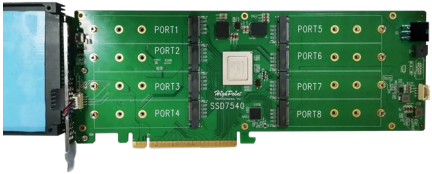
Step 1. On the rear of the R1508, remove the six screws that secure the unit's heat sink to the PCB.



Step 2. After removing the screws, 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).

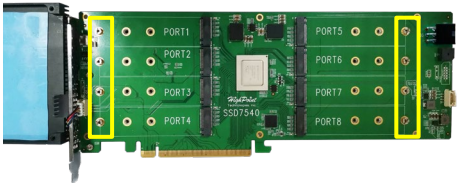
Note: *Take care when moving the heatsink to prevent damaging the left fan's power cable.*





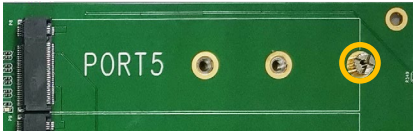
Step 3. After removing the casing, carefully turn it over to view the thermal pad. The blue films must be removed from the pad before reinstalling the panel. These films protect the pad from damage and foreign objects prior to installation, however, they will also prevent the thermal pad from conducting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

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

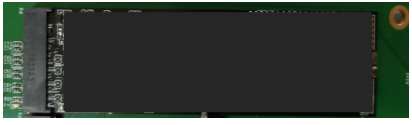


The R1508 can support 2242, 2260, and 2280 form factor M.2 NVMe SSDs.

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.

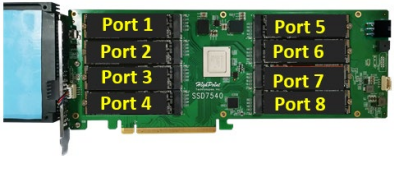


Note: *Please make sure all disks are clean before you insert them into the slot to avoid unexpected situations.*

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

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

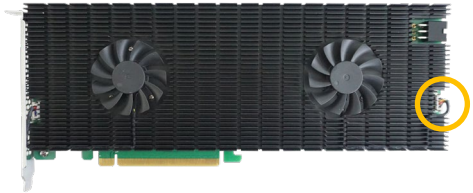
The following example shows eight Gen4 NVMe SSDs installed into Ports 1-8:



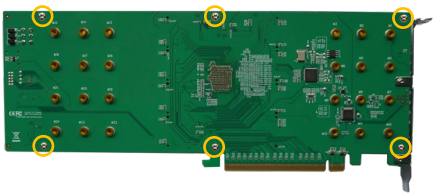
Step 8. After installing all NVMe SSDs, carefully flip the heatsink to the right.

Note: *Make sure the NVMe 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 R1508, refasten the 6 screws that were removed in step 1.

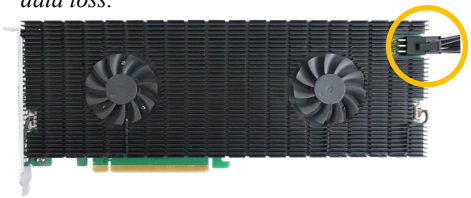


Note: *Make sure the aluminum cover is properly aligned with the controller board (PCB), and that it makes full contact with the thermal pad, before refastening it to the R1508. If the cover is*

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 NVMe SSDs or controller hardware, performance loss, unstable I/O, and the loss of data.

Step 11. Power up the SSD external power supply.

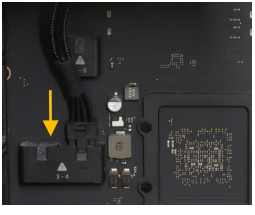
Note: *If the external power supply is not powered on, the NVMe SSDs may drop offline or remain undetected, which could lead to data loss.*



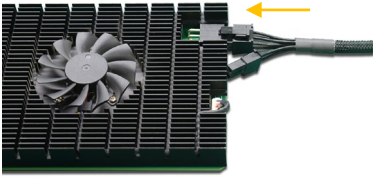
R1508 relies on two power sources to support eight NVMe SSDs; power supplied through the PCIe bus, and power from the system's PSU via an external 6 pin PCIe power cable. If the external cable is not connected, there will be insufficient power to support all 8 NVMe SSDs; this may cause the NVMe SSDs 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 1508), 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 R1508.



Resources

We recommend visiting the R1508 Product Page for the latest document.

Document Downloads:
https://www.highpoint-tech.com/nvme-aic/r1508

FAQ & Troubleshooting:
FAQ - HighPoint Technologies, Inc.

Customer Support

If you encounter any problems while utilizing the R1508, 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