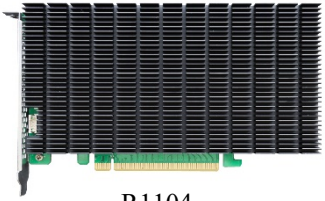
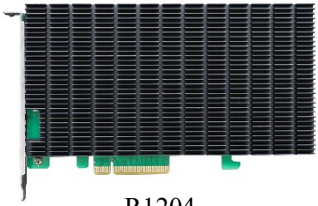
Rocket 1104 (R1104)
Rocket 1204 (R1204)

4x M.2 Port to PCIe 3.0 x8/x16 NVMe HBA's



R1104



R1204

Quick Installation Guide

V1.01

System Requirements

PC Requirements

- System with a free PCIe 3.0 (or 4.0) x16 slot

  R1104: requires an x16 slot

  R1204: x8 or x16 slot

- Windows 11, 10 / Server 2022, 2019, 2016, Microsoft Hyper-V

- RHEL/Debian/Ubuntu/Fedora/Proxmox/Xenserver (Linux kernel 3.10 and later)

- macOS 10.13.6 ~ macOS 13.x

- FreeBSD 12.1 and later

R1104 Kit Contents

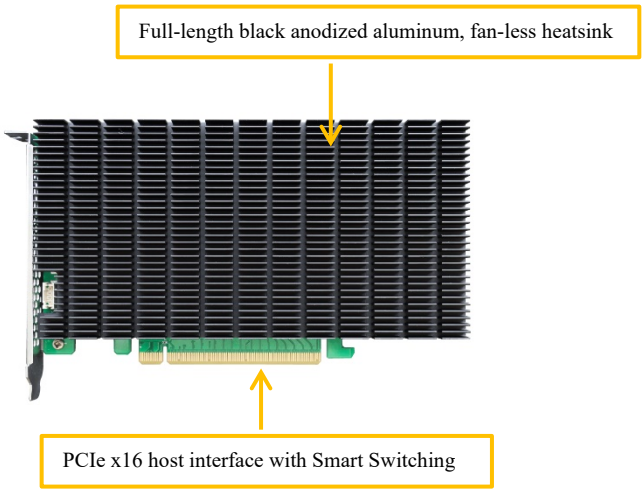
- R1104 Controller Card
- Quick Installation Guide

R1204 Kit Contents

- R1204 Controller Card
- Quick Installation Guide

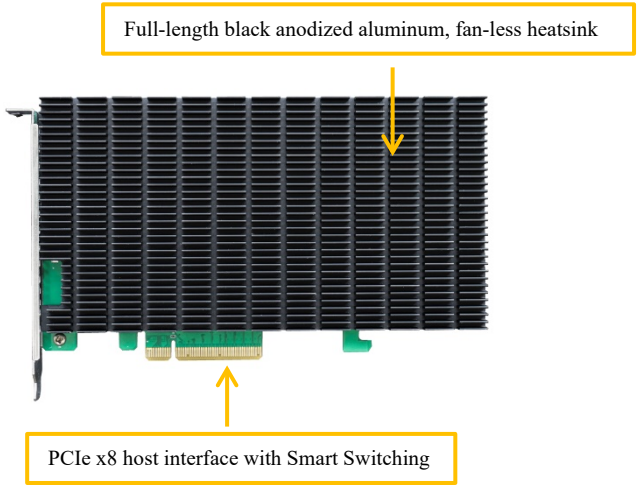
R1104 Hardware

Front View



R1204 Hardware

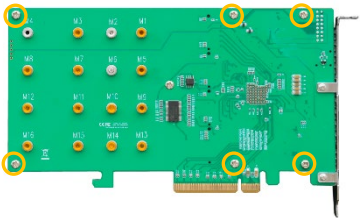
Front View



R1104/R1204 Hardware Installation:

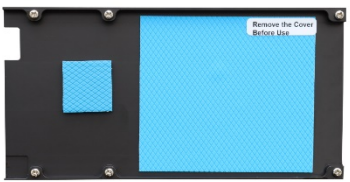
Using the R1204 as an example:

Step 1. On the rear of the R1204, remove the six screws that secure the unit's heat sink to the PCB.

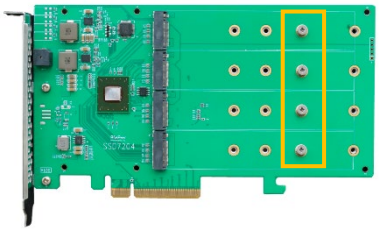


After removing the screws, carefully remove the heat sink from the R1204.

Step 2. After removing the casing, carefully turn it over to view the thermal pad. The blue film must be removed from the pad before reinstalling the panel. This film protects the pad from damage and foreign objects prior to installation. However, it can also prevent the thermal pad form conducting heat away from the NVMe SSDs not removed.



Step 3. These 4 screws are used to install the NVMe SSD's.



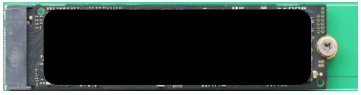
The R1104 and R1204 can support any M.2 form factor (2242, 2260, 2280, and 22110).

Step 4. Please remove the screws on the right side of the R1204:

Step 5. Gently insert the SSD into the slot.

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

Step 6. Refasten the screw to secure the SSD.



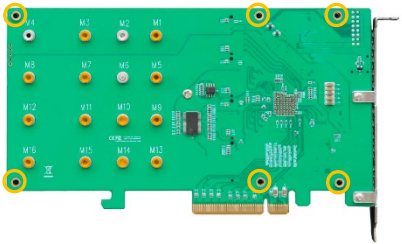
Repeat Steps 4 to 6 to install the remaining SSDs.

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.*

The following example shows four M.2 SSDs installed into Ports 1-4:

Step 7. Reattach the heat sink after installing all the SSDs.

Step 8. On the rear of the R1204, refasten the six screws that were removed in step 1.



Note： *Make sure the aluminum heatsink is properly aligned with the controller board (PCB), and that it makes full contact with the thermal pad, before refastening it to the R1204/R1104. If the heatsink is improperly installed, it 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.*

Resources

A variety of manuals, guides and FAQs are available for the R1104 and R1204 NVMe HBA's.

In addition, we recommend visiting the Downloads section of the product's webpage for the latest documentation.

Document Downloads:

https://www.highpoint-tech.com/hba-gen3-nvme-m2

Customer Support

If you encounter any problems while utilizing the R1104/ R1204, or have any questions about this or any other HighPoin t 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