

# R1104/R1204

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



R1104



R1204

**Quick Installation Guide**

**V1.00**

# **System Requirements**

## **PC Requirements**

- System with a free PCIe 3.0 (or 4.0) slot:  
R1104: requires x16 slot  
R1204: x8 or x16 slot
- Windows 10 or later, Windows Server 2019 and 2022
- Linux Kernel 3.10 or later
- MacOS 10.13 or later
- FreeBSD 12.1 and later

## **R1104 Kit Contents**

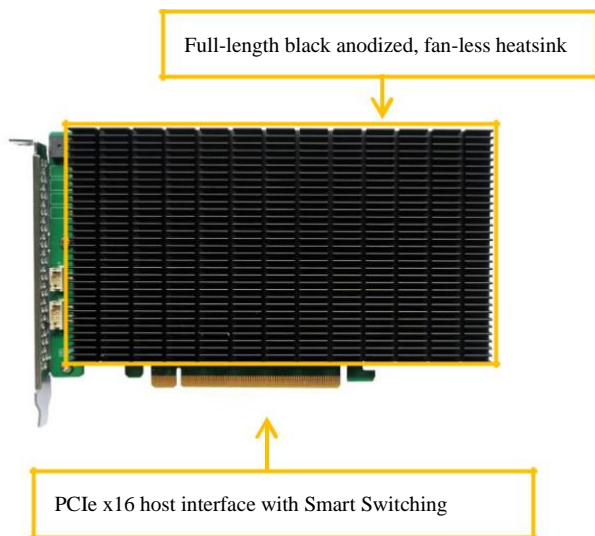
- R1104 Controller Card
- Quick Installation Guide

## **R1204 Kit Contents**

- R1204 Controller Card
- Quick Installation Guide

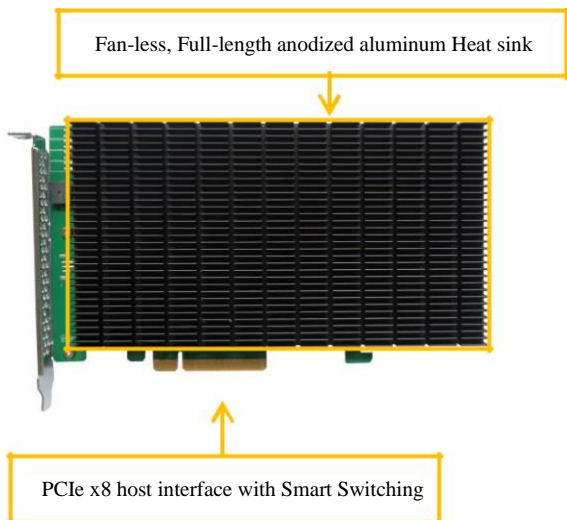
## **R1104 Hardware**

### **Front View**



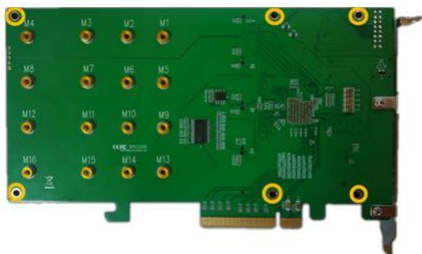
# R1204 Hardware

## Front View



## R1104/R1204 Hardware Installation:

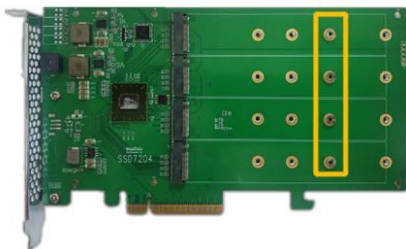
Step 1. On the rear of the controller, remove the six screws that secure the unit's heat sink to the PCB.



Step 2. After removing the screws, carefully remove the heat sink from the controller card. Carefully turn the heatsink 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, but will also prevent the pad from transferring heat away from the NVMe SSD's and controller componentry.



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 R1104/R1204



Step 5. Gently insert the SSD into the slot.



Step 6. Refasten the screw to secure the SSD.



Repeat Steps 3 to 5 to install the remaining SSD.

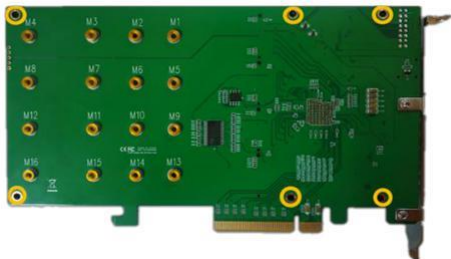
**Note:** Make sure the SSDs are carefully, but securely installed into each M.2 port. Loose connections can cause a variety of stability and performance issues, and may ultimately result in data loss.

The following example shows four SSDs installed into Ports 1 through 4:



Step 7. Replace the heat sink after installing all SSDs

Step 8. On the rear of the R1104/R1204, refasten the six screws that were removed in step 1.



**Note:** Make sure the heatsink is properly aligned with the controller board (PCB), and that it makes full contact with the thermal pad, 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.

## Resources

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

In addition, we recommend visiting the Software Downloads webpage for the latest documents.

### Document Downloads:

<https://www.highpoint-tech.com/ssd/series-r1000-fan-less-overview.html>

## Customer Support

If you encounter any problems while utilizing the R1104/R1204, 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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