HighPoint Technologies, Inc.

R1504

4x M.2 Port to PCIe 4.0x16 NVMe HBA

Quick Installation Guide

V1.00

System Requirements

PC Requirements

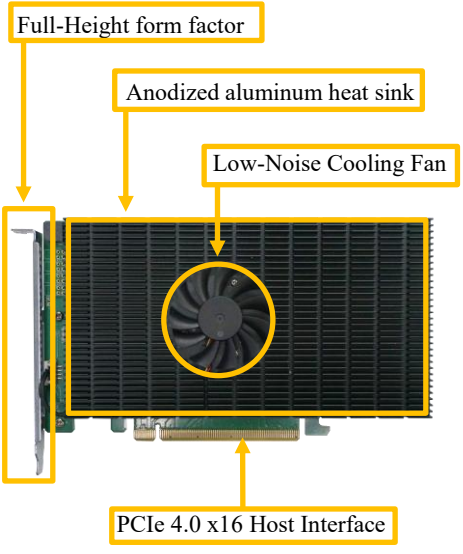
- System with a free PCIe 4.0 x16 or PCIe3.0 x16 slot
- Windows 11 and 10, Windows Server 2019 and 2022
- Linux kernel 3.10 and later
- macOS 10.13 and later
- FreeBSD 12.1 and later

R1504 Kit Content

- R1504 Controller Card
- Quick Installation Guide

R1504 Hardware

Front View



R1504 Hardware Installation:

Step 1. On the rear of the R1504, 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 R1504.

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 the heat away from the NVMe SSDs if we don't remove it.

Step 3. These 4 screws are used to install the NVMe SSDs.

Step 4. Please remove the screws on the right side of R1504

Step 5. Gently insert the SSD into the slot.

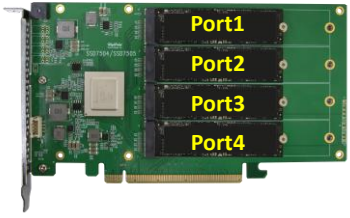
Note: *Please make sure all disks are clean before you insert them into the slot to avoid unexpected situations.*

Step 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 PCIe Gen4 SSD installed into Port 1, 2, 3 & 4;



Step 7. Replace the heat sink after installing all SSDs

Step 8. On the rear of the R1504, 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 R1504. If the cover is improperly installed, the fan and thermal pad 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.*

Note: *Please be sure to connect NVMe before using the product to reduce the occurrence of unnecessary errors!*

Note: *Install the driver in the system first and then install the board !*

Resources

We recommend visiting the R1504 Product Page for the latest document.

Document Downloads:

https://www.highpoint-tech.com/ssd/series-r1500-fan-overview.html

Customer Support

If you encounter any problems while utilizing the R1504 drive, 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