

SSD7104/SSD7204

4x M.2 Port to PCIe 3.0x8/x16 NVMe RAID Controller



SSD7104



SSD7204

Quick Installation Guide

V1.07

SSD7104/SSD7204 Quick Installation Guide (QIG)

This guide includes hardware descriptions of the SSD7104 and SSD7204 NVMe RAID controllers, explains how to safely install NVMe SSDs into each card, and provides a series of Resource links for additional installation guides, compatibility lists and software updates.

SSD7104 Kit Content

- SSD7104 Controller Card
- Quick Installation Guide

SSD7204 Kit Content

- SSD7204 Controller Card
- Quick Installation Guide

Data RAID Prerequisites

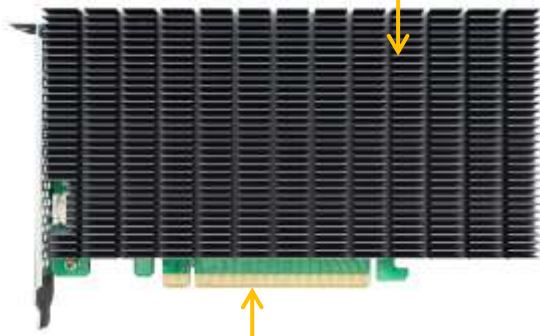
Data arrays are used exclusively for storage – they cannot be used to boot a system.

1. You must have at least one NVMe SSD installed into the SSD7104/SSD7204 controller.
2. The SSD7104 must be installed into a PCIe 3.0 and 4.0 x16 lanes.
3. The SSD7204 must be installed into a PCIe 3.0 and 4.0 x8 or x16 lanes.
4. Operating system:
 - Windows 11, 10 / Server 2022, 2019, 2016/ Microsoft Hyper-V
 - RHEL/Debian/Ubuntu/Fedora/Proxmox/Rocky Linux (Linux kernel 3.10 and later)
 - macOS 10.13.6 ~ macOS 13.x
5. A motherboard that can support UEFI modes. Please check the [SSD7104 Compatibility List](#) and [SSD7204 Compatibility List](#) for recommended motherboards.

SSD7104 Hardware

Front View

Full-length black anodized aluminum, fan-less

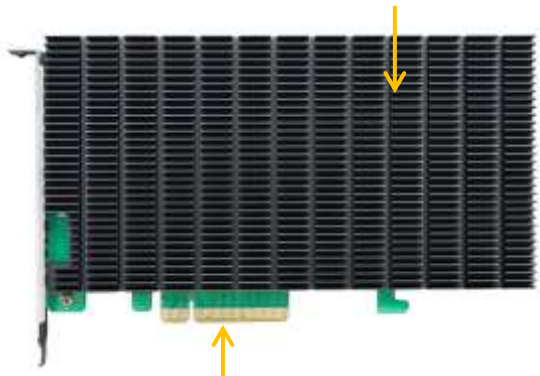


PCIe x16 host interface with Smart Switching

SSD7204 Hardware

Front View

Full-length black anodized aluminum, fan-less



PCIe x8 host interface with Smart Switching

NVMe Drive Installation:

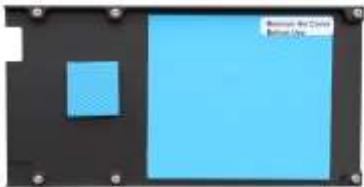
Using the SSD7204 as an example:

Step 1. On the rear of the SSD7204, remove the six screws that secure the unit's heat sink to the PCB.

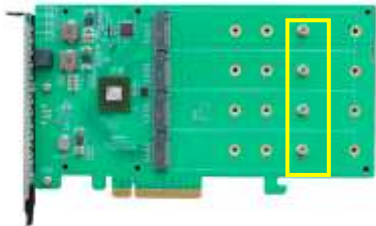


After removing the screws, carefully remove the heat sink from the SSD7204.

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 from 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 SSD's.

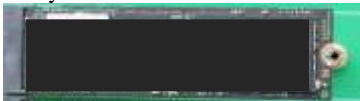


The SSD7204 can support any M.2 form factor (2242, 2260, 2280, and 22110).

Step 4. Please remove the screws on the right side of SSD7204

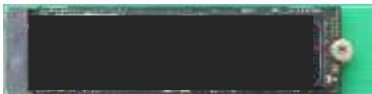


Step 5. Gently insert the SSD into the slot.



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 4 to 6 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 M.2 SSDs installed into Ports 1-4:



Step 7. Replace the heat sink after installing all SSDs

Step 8. On the rear of the SSD7204, 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 SSD7204. 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.

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!

Optional Accessories

Fan Cooling Unit

HS8004F



A low-noise fan with a full-length anodized aluminum heat sink

Fan Cooling Unit Compatible NVMe Controllers

SSD7104



4x M.2 Port to PCIe 3.0x16
NVMe RAID Controller

SSD7104F



4x M.2 Port to PCIe 3.0x16
NVMe RAID Controller

SSD7204



4x M.2 Port to PCIe 3.0x8
NVMe RAID Controller

SSD7105



4x M.2 Port to PCIe 3.0x16
NVMe RAID Controller

SSD7505



4x M.2 Port to PCIe 4.0x16
NVMe RAID Controller

Resources

A variety of manuals, guides and FAQ's are available for the SSD7104 /SSD7204 RAID controller.

In addition, we recommend visiting the Software Downloads webpage for the latest drivers, management interfaces, and installation guides.

For Software Downloads, Documentation and more information about this product, please visit the following website:

SSD7104:

<https://www.highpoint-tech.com/nvme2/ssd7104>

SSD7204:

<https://www.highpoint-tech.com/nvme1/ssd7204>

FAQ & Troubleshooting:

[FAQ - HighPoint Technologies, Inc. \(helpjuice.com\)](https://www.highpoint-tech.com/helpjuice.com)

Customer Support

If you encounter any problems while utilizing the SSD7104/SSD7204 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>

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