HighPoint Technologies, Inc.

SSD7104/SSD7204

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



SSD7104



SSD7204

Quick Installation Guide

V1.04

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 SSD's 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

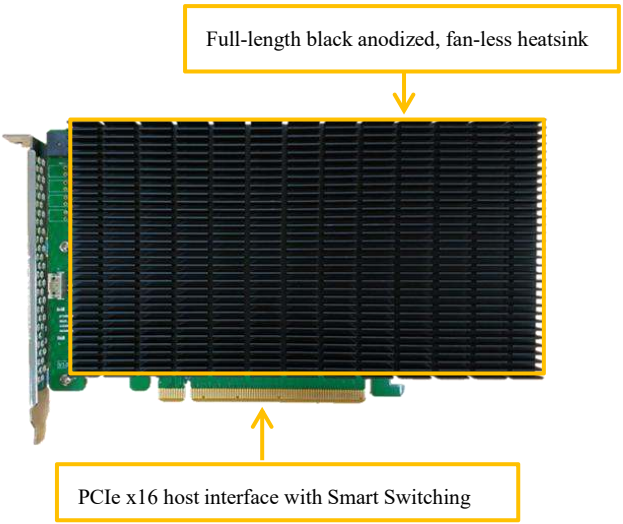
Data RAID Prerequisites

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 10 / Windows 2016 / Windows 2019
   - A Linux Distribution with Kernel 3.10 and later
   - macOS 10.13 and later
5. A motherboard that can support UEFI modes. Please check the SSD7104 Compatibility List and SSD7204 Compatibility List for recommended motherboards.

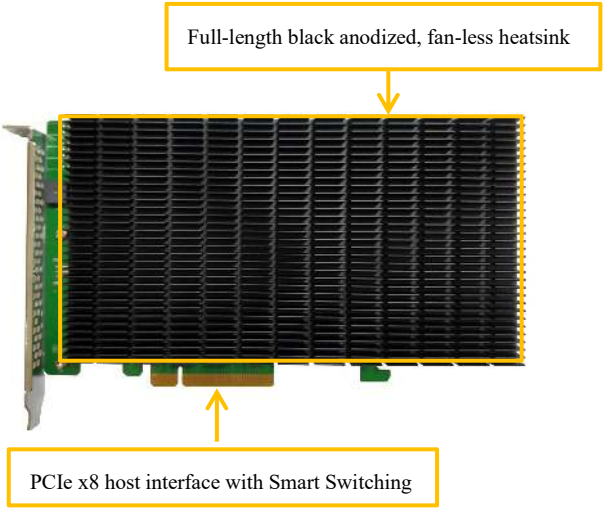
SSD7104 Hardware

Front View



SSD7204 Hardware

Front View



NVMe Drive Installation:

Take 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 form conducting the heat away from the NVMe SSD's 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 SSD's 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 cover 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 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

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.

Software Download:
SSD7104 Driver, WebGUI, Installation Guide
https://highpoint-tech.com/USA_new/series-ssd7104-download.htm

SSD7204 Driver, WebGUI, Installation Guide
https://highpoint-tech.com/USA_new/series-ssd7204-download.htm

Other Reference Information:
Motherboard & NVMe SSD Compatibility List
SSD7104 User Guide – How To Set Up & Monitor RAID Array

https://highpoint-tech.com/USA_new/series-ssd7104-resource.htm

SSD7204 User Guide – How To Set Up & Monitor RAID Array

https://highpoint-tech.com/USA_new/series-ssd7204-resource.htm

FAQ & Troubleshooting:

https://highpoint-tech.com/USA_new/support-faq-nvme.htm

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:
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