HighPoint Technologies, Inc.

SSD7749M2

16x M.2 Port to PCIe 4.0 x16 NVMe RAID AIC



Quick Installation Guide

V1.00

System Requirements

PC Requirements

- PC platform with a free physical PCIe 4.0 (3.0 or 5.0) x16 slot
- Form factor: Full-Height, Full-Length, Dual-Width

Operating System

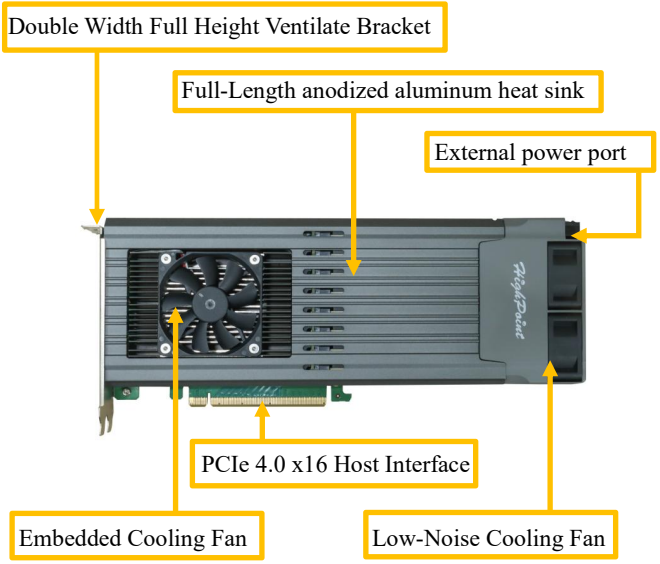
- Windows 11, 10 / Server 2022, 2019, 2016 / Microsoft Hyper-V
- RHEL/ Debian/ Ubuntu/ Fedora/ Proxmox/ Rocky Linux
  (Linux kernel 3.10 and later)

Kit Content

- 1x SSD7749M2
- 1x Quick Installation Guide
- 16x M.2 rubbers

SSD7749M2 Hardware

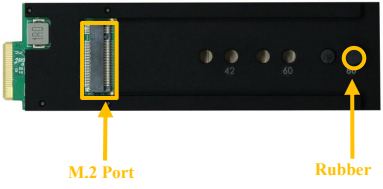
Front View



NVMe SSD Tray - Front View



NVMe SSD Tray - Rear View

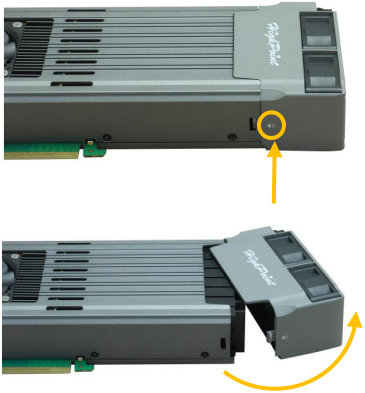


Hardware Installation

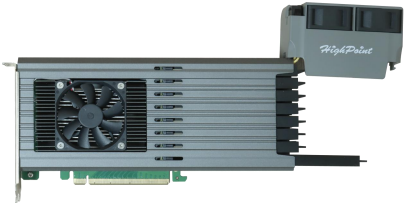
Step 1. Use a wired ESD wrist strap that is properly grounded.

Step 2. Unpack and remove the SSD7749M2 and check it for damage. If it appears damaged, please get in touch with HighPoint Technical Support.

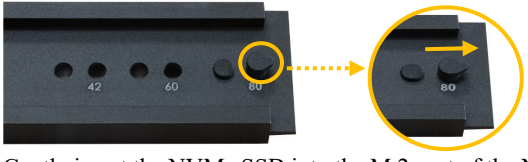
Step 3. Apply pressure at the mark to release the lock, and turn it counterclockwise.



Step 4. Gently remove the NVMe SSD Tray from the SSD7749M2.



Step 5. Confirm the direction of the rubber (pointing to the right).



Step 6. Gently insert the NVMe SSD into the M.2 port of the NVMe SSD Tray.

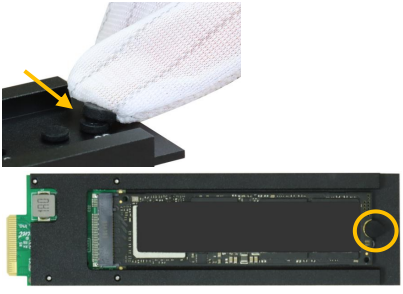


Notes:

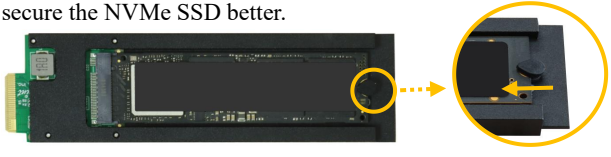
Ensure the NVMe SSD contacts ("golden fingers") are clean before installation.

The SSD can be installed in front or rear of each NVMe SSD tray.

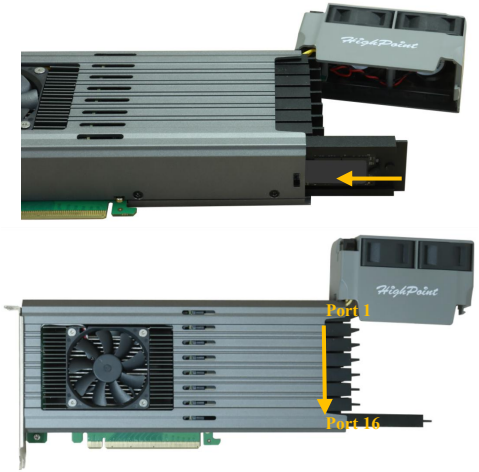
Step 7. Press the right side of the rubber to align it and insert it into the retention hole on the end of the NVMe SSD.



Step 8. Rotate the direction of the rubber so that it points to the left to secure the NVMe SSD better.

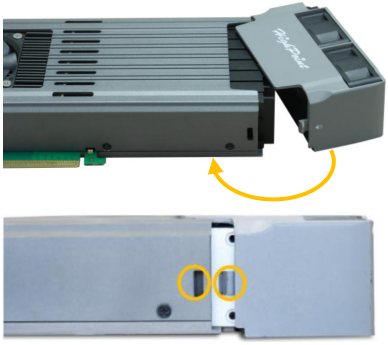


Step 9. After installing all NVMe SSDs, carefully insert the NVMe SSD Trays into the slots.



Note: *Ensure the NVMe SSD Tray is carefully but securely mounted to each port. Loose connections can cause various stability and performance issues and may ultimately result in data loss.*

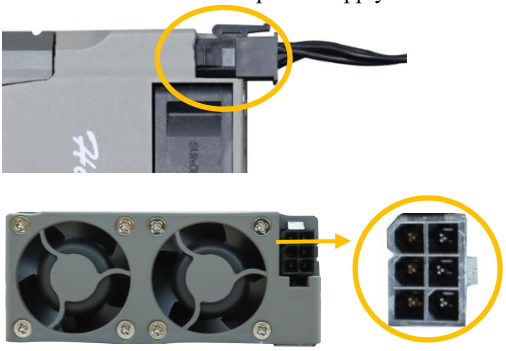
Step 10. Align the fan module and press down to secure.



Note: *Ensure the fan module is aligned correctly with the AIC board (PCB). If the fan module is improperly installed, the fan will not sufficiently cool the NVMe SSDs and AIC componentry, which may damage the NVMe SSDs or AIC hardware, performance loss, unstable I/O, and data loss.*

Step 11. Shut down the system and disconnect the AC power cord.

Step 12. Connect the SSD external power supply.



Connect 6 pin PCIe power cable

Note: *If the external power supply is not powered on, the NVMe SSDs may drop offline or remain undetected, which could lead to data loss.*

SSD7749M2 relies on two power sources to support sixteen NVMe SSDs: power supplied through the PCIe bus and power from the system's PSU via an external 6-pin PCIe power cable. If the external cable is not connected, there will be insufficient power to support all sixteen NVMe SSDs; this may cause the NVMe SSDs to drop offline.

Step 13. Insert the SSD7749M2 into the system's open PCIe 3.0/ 4.0/ 5.0 x16 slot.



Step 14. When finished, turn on the power to the system.

Resources

Various manuals, guides, and FAQs are available for the SSD7749M2 NVMe RAID AIC.

In addition, we recommend visiting the Software Downloads webpage for the latest drivers and RAID Management software.

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

https://www.highpoint-tech.com/nvme-individual/ssd7749m2

FAQ & Troubleshooting:

FAQ - HighPoint Technologies, Inc. (helpjuice.com)

Customer Support

If you encounter any problems while utilizing the SSD7749M2 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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