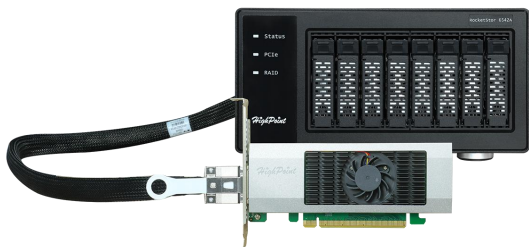




RS6542AW

8-Bay U.2/ U.3 NVMe RAID Enclosure



Quick Installation Guide

V1.01

RS6542AW Overview

The RS6542AW is a compact, high-performance NVMe RAID storage solution for PC platforms. Each of the 8 drive bays features dedicated PCIe 4.0 x4 bus bandwidth to ensure each NVMe SSD operates at peak performance.

System Requirements

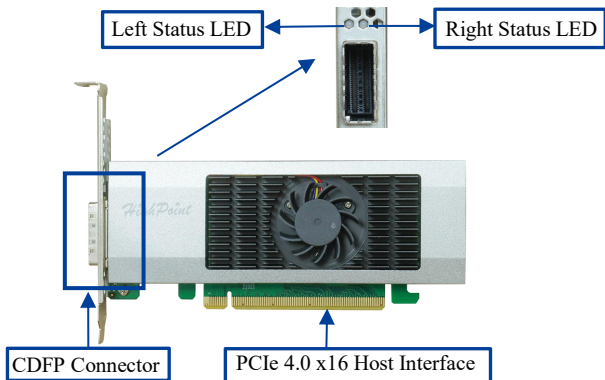
- Windows 10 and later
- Windows Server 2016 and later
- RHEL/ Debian/ Ubuntu/ Fedora/ Proxmox/ Rocky Linux

Kit Contents

- 1x 8-Bay NVMe RAID Enclosure (Including 8x 2.5 Inch Drive Trays)
- 1x PCIe 4.0 x16 Controller (external CDFP port)
- 1x CDFP-CDFP-1M Cable
- 1x UL Power Cord
- 1x Low Profile Bracket
- 40x 2.5 SSD Mounting Screws
- 1x Quick Installation Guide

RS6542AW Hardware

Controller card



- **Right Status LED**

No light: The controller card is powered off

Flash Green: The CDFP cable is not connected correctly

Solid Green: The CDFP cable is connected correctly

Solid Red: The controller card and the Enclosure is a mismatch

- **Left Status LED**

No light: The controller card is powered off

Solid Green: The controller card is in PCIe 4.0 x16 status

Flash Green: The controller card is not in PCIe 4.0 x16 status

Enclosure Panel Layout-Front View



- **HighPoint logo LED**

No light: The Enclosure is powered off

Solid Blue: The CDFP cable is connected

Flash Yellow: The CDFP cable is not connected

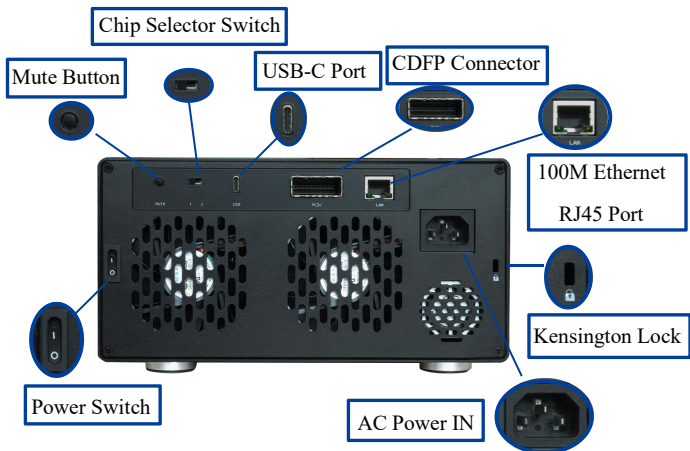
- **Tray LED**

No light: The disk is not detected, or the Enclosure is powered off

Solid Blue: The disk is detected

Flash Blue: The disk is doing I/O

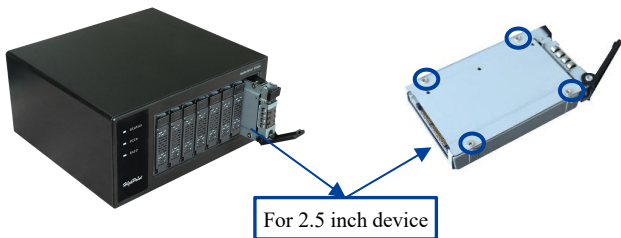
Enclosure Panel Layout-Rear View



- **Power Switch:** Enclosure power switch
- **Mute Button:** Mute the internal Enclosure alarm buzzer
- **Chip Selector Switch:** M487 chip (switch to 1)/ M88048 chip (switch to 2)
- **USB-C Port:** M487 chip: Device parameter setting, upgrade procedure, device health status query; M88048 chip: Device parameter configuration
- **CDFP Connector:** CDFP cable connector for the controller card connection

- **100M Ethernet RJ45 Port:** Can be used monitor the RS6542AW via an internet connection
 - DHCP / Static: Support DHCP to allocate the IP Address and could assign the IP Address manually
 - SSDP embedded: The device will report its IP/Mac/SN/Name to the local network
 - User Management: Only one user support and only one session could be supported
 - Command Support: The command in the MCU spec are supported for both Ethernet
- **Kensington Lock:** Optional slot for Kensington Lock
- **AC Power IN:** Connects to the AC power cord

Drive Tray



RS6542AW Hardware Installation

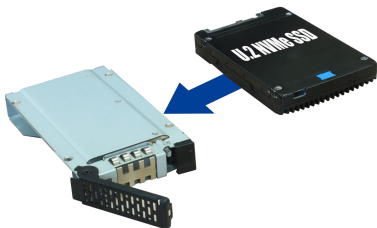
1. Use a wired ESD wrist strap that is properly grounded.
2. Unpack and remove the RS6542AW and check it for damage. If it appears damaged, please get in touch with HighPoint Technical Support.
3. Press the drive tray eject button to eject the eject mechanisms.



4. Pull the eject mechanisms to remove the drive tray from the Enclosure.



- Carefully insert the U.2/ U.3 NVMe SSD into the drive tray.



- Secure it with the provided mounting screws.



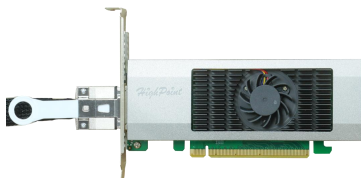
- Slide the drive tray into the Enclosure slot and push it to the rear of the Enclosure.



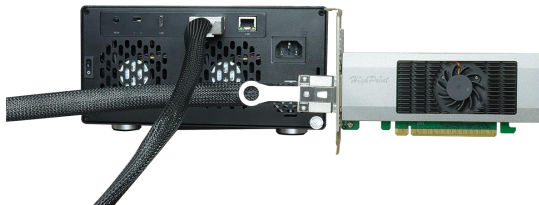
8. Close the eject mechanisms to lock the drive tray.



9. Connect the CDFP cable to the controller card's external port.



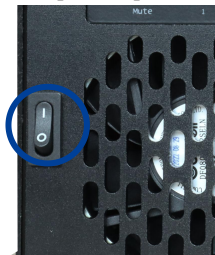
10. Connect the other end of the CDFP cable to the Enclosure's CDFP port (rear panel).



11. Connect the UL power cord to the rear of the Enclosure and connect it to an AC power source.



12. Insert the controller card into the motherboard's PCIe x16 slot.
13. Switch on the Enclosure power switch to power up the Enclosure, then power up the motherboard.



Note: Ensure the NVMe SSDs are installed before powering on and using the Enclosure!

Resources

Various manuals, guides, and FAQs are available for the RS6542AW NVMe RAID Enclosure.

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

Software Download:

<https://www.highpoint-tech.com/nvme-enclosure/rs6542aw>

Certified Accessories:

<https://www.highpoint-tech.com/nvme-accessories>

FAQ & Troubleshooting:

[FAQ - HighPoint Technologies, Inc.](#)

Customer Support

If you encounter any problems while utilizing the RS6542AW or have questions about this or any other HighPoint Technologies, Inc. product, please contact our Customer Support Department or check our FAQ for more information.

Web Support:

<https://www.highpoint-tech.com/support-and-services>

HighPoint Technologies, Inc. websites:

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