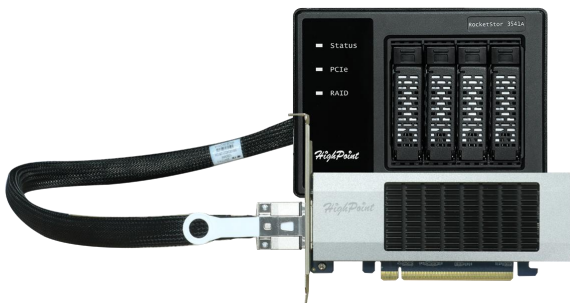*HighPoint*
**Technologies, Inc.**

# RS6541AW
## 4-Bay U.2/ U.3 NVMe RAID Enclosure



## Quick Installation Guide
## V1.00

## RS6541AW Overview

The RS6541AW is a compact, high-performance NVMe RAID storage solution for PC platforms. Each of the 4 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 4-Bay NVMe RAID Enclosure (Including 4x 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
- 20x 2.5 SSD Mounting Screws
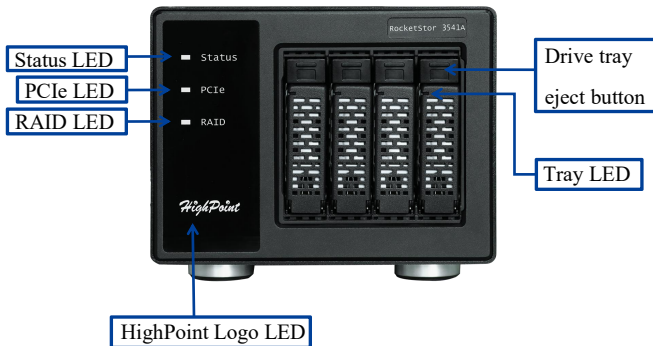- 1x Quick Installation Guide

# RS6541AW Hardware

## Controller card
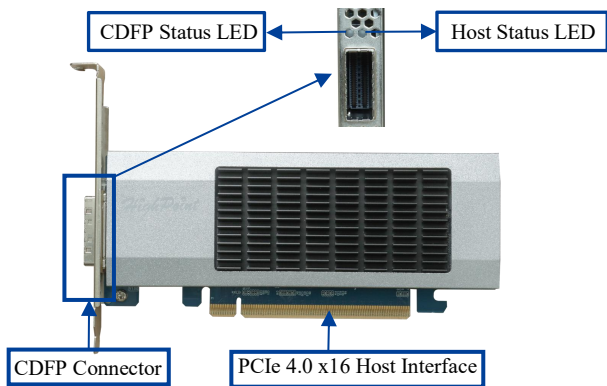


CDFP Status LED

Host Status LED

CDFP Connector

PCIe 4.0 x16 Host Interface

Note: Please refer to the detailed description of LED colors and their status in the RS6541AW NVMe RAID Enclosure User Guide on the official website.

# Enclosure Panel - Front View



Status LED

PCIe LED

RAID LED

Drive tray eject button
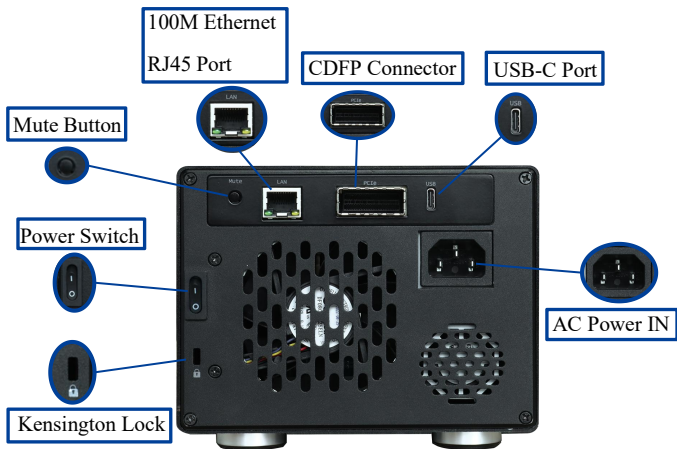
Tray LED

HighPoint Logo LED

Note: Please refer to the detailed description of LED colors and their status in the RS6541AW NVMe RAID Enclosure User Guide on the official website.

# Enclosure Panel - Rear View



- **Power Switch:** To shut down the whole power of the Enclosure
- **Mute Button:** Mute the internal Enclosure alarm buzzer
- **USB-C Port:** Used to set the device parameter, upgrade procedure, and query the device health status
- **CDFP Connector:** Upstream Port for the Enclosure
- **100M Ethernet RJ45 Port:** Can be used monitor the RS6541AW via an internet connection
  - **DHCP/ Static:** Support DHCP to allocate the IP Address

and could assign the IP address manually

- o **SSDP embedded:** The device will report its IP/ Mac/ SN/ Name to the local network so that application program could know how many HighPoint Devices in the local network and list them quickly

- o **User Management:** Only one user support and only one session could be supported

- o **Command Support:** The command in the MCU spec are supported for both Ethernet and USB

- **Kensington Lock:** Optional slot for Kensington Lock
- **AC Power IN:** Connects to the AC power cord

# Drive Tray



For 2.5 inch device
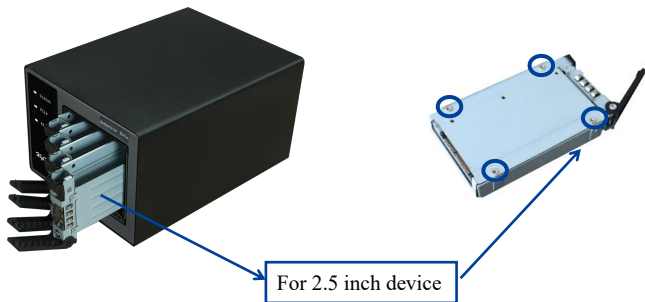
# RS6541AW Hardware Installation

1.  Use a wired ESD wrist strap that is properly grounded.
2.  Unpack and remove the RS6541AW and check it for damage.
    If it appears damaged, please get in touch with HighPoint Technical Support.
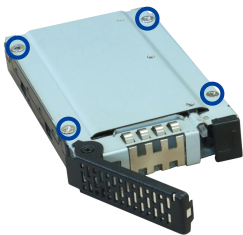3.  Press the drive tray eject button to eject the eject mechanisms.



4.  Hold the eject mechanisms and horizontally remove the drive tray out of the Enclosure.

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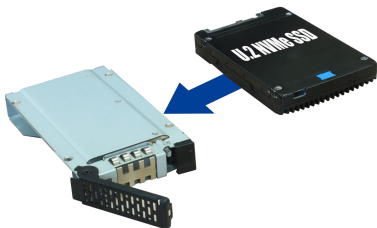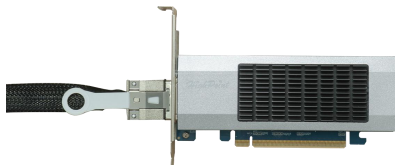


6. Secure it with the provided mounting screws.



7. Slide the drive tray into the Enclosure slot and push it to the rear of the Enclosure.
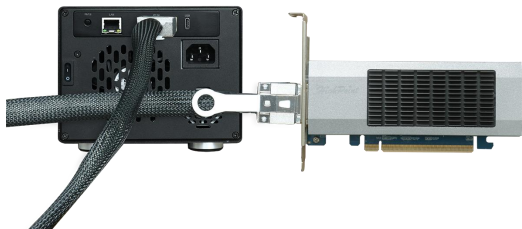
8. Close the eject mechanisms to lock the drive tray.



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



10. Connect the other end of the CDFP cable to the Enclosure's CDFP connector (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 RS6541AW 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/RS6541AW

**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 RS6541AW 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