HighPoint
Technologies, Inc.

SSD6444M

4-Bay U.2/U.3/M.2 NVMe RAID Enclosure

Quick Installation Guide

V1.00

SSD6444M Overview

The SSD6444M is a compact, high-performance NVMe storage solution for PC and Mac platforms. Each of the 4 drive bays features dedicated PCIe 3.0 x4 bus bandwidth to ensure each NVMe SSD operates at peak performance. Any PC or Mac platform with a free, dedicated PCIe 3.0 /4.0 x16 slot can now experience the true performance capabilities of NVMe technology.
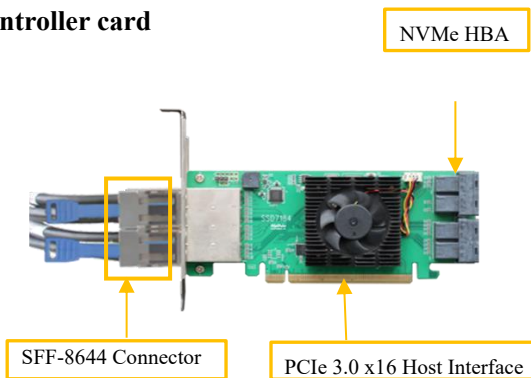
System Requirements

- Windows 11, 10 / Server 2022, 2019, 2016 / Microsoft Hyper-V
- RHEL/ Debian/ Ubuntu/ Fedora/ Proxmox/ Rocky Linux
   (Linux kernel 3.10 and later)
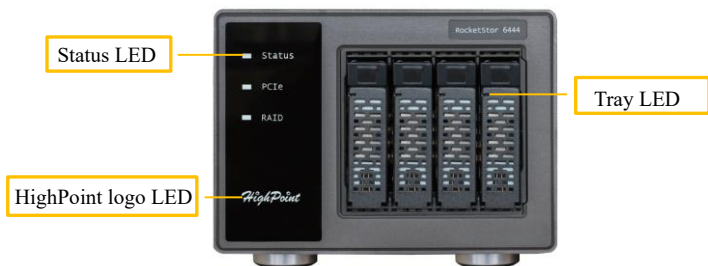- macOS 10.13 ~ macOS 13.x

Kit Contents

- 1x 4-Bay Enclosure
- 1x PCIe 3.0 x16 controller (external SFF-8644 port)
- 2x Mini-SAS 8644-8644-210 cables
- 4x U.2 to M.2 Trays
- 1x UL Power Cord
- 20x 2.5" SSD mounting screws
- 1x Quick Installation Guide
- 1x Low Profile Bracket

SSD6444M Hardware

Controller card

NVMe HBA

SFF-8644 Connector

PCIe 3.0 x16 Host Interface

Enclosure Panel Layout-Front View

HighPoint logo LED

Solid Blue： Power on

Status LED

Solid Blue： Normal status
Solid Red： The temperature exceeds the Critical Threshold
Flash Red： The fan speed is lower than the Critical Threshold
Flash Yellow： The temperature exceeds the Warning Threshold or the fan speed is lower than the Warning Threshold
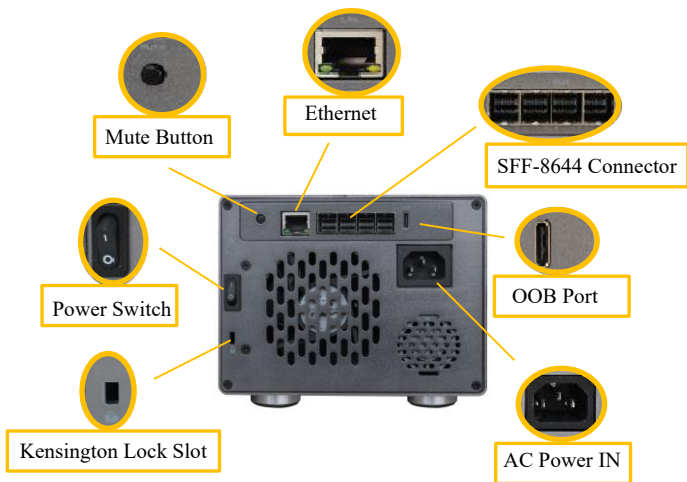
Tray LED

Lights out： The disk is not detected, or the disk adapter (U.2 to M.2) LED is not responding
Solid Blue： The disk is detected
Blue, flashing： Disk I/O
Solid Red： The disk has failed

Enclosure Panel Layout-Rear View

Mute Button

Ethernet

SFF-8644 Connector

Power Switch

OOB Port

Kensington Lock Slot

AC Power IN

Kensington Lock Slot: Optional slot for Kensington Lock

Power Switch: Enclosure power switch

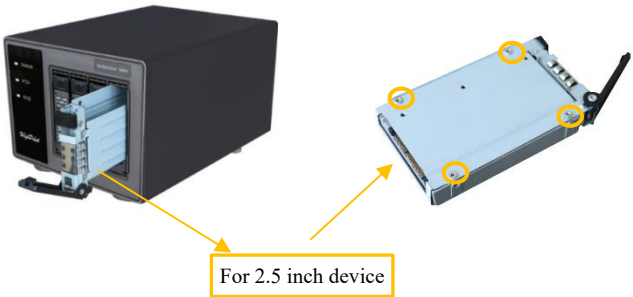**Mute Button:** Mute the internal enclosure alarm buzzer

Ethernet： Can be used monitor the SSD6444 via an internet connection

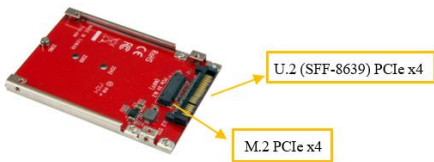**4x SFF-8644 Connector:** SFF-8644 cable connector for the NVMe HBA connection

OOB Port (out-of-band): Implements the virtual serial port function, through which you can obtain the network IP address

AC Power IN: Connects to the AC power cord

Disk Tray

For 2.5 inch device

U.2 to M.2 Tray

U.2 (SFF-8639) PCIe x4

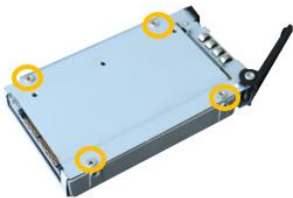M.2 PCIe x4

SSD6444M Hardware Installation

1. Insert the NVMe M.2 SSD into the 'M.2 to U.2 Adapter'.

Note1: Please make sure the M.2 connectors ("golden fingers") are clean before installation. Dust/debris or fingerprints may lead to connection/stability issues.

Note2: 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.
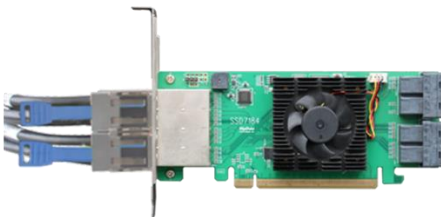
2. Carefully insert the 'M.2 to U.2 Adapter' into the disk tray and secure it with the provided mounting screws.

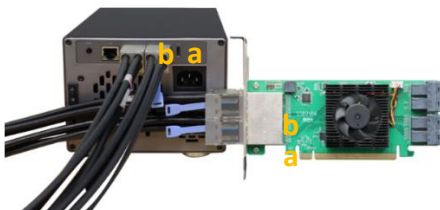3. Place the Enclosure on a level surface and load each disk tray.

4. SFF-8644 to SFF-8644 cable connects to the SFF-8644 connector on the left side of the NVMe HBA.

5. The other end of the SFF-8644 to SFF-8644 connects to the Enclosure's SFF-8644 connector as illustrated below (a to a, and b to b), the Enclosure connects to M.2 NVMe, and connect to AC power.

Channel/ Port assignment:

6.   Connect the SSD6444M's HBA into the PCIe 3.0/4.0 x16 slot of the motherboard;

Note: *Make sure the NVMe SSDs are installed prior to powering on and using the enclosure!*

Optional Certified Cable & Controller Accessories

Device Cables	
8644-8644-220	SFF-8644 to SFF-8644 cable Length: 2M
8644-8644-210	SFF-8644 to SFF-8644 cable Length: 1M

Resources

A variety of manuals, guides and FAQs are available for the SSD6444M RAID controller.
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-2/ssd6444m

Certified Accessories:

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

FAQ & Troubleshooting:

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

Customer Support

If you encounter any problems while utilizing the SSD6444M, or have any questions about this or any other HighPoint Technologies, Inc. product, feel free to 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