



SSD6540M

4-Bay M.2 NVMe RAID Enclosure



Quick Installation Guide

V1.06

Introducing the SSD6540M

The SSD6540M is designed for professional grade, performance-hungry applications that demand uncompromised transfer bandwidth. The unique NVMe architecture provides dedicated PCIe 3.0 x4 bandwidth for each drive-bay; this allows each M.2 SSD to interface directly with the platform's CPU, and deliver sustained transfer performance in excess of 14,000MB/s – faster than any other external desktop RAID storage solution in today's marketplace!

The SSD6540M's flexible architecture enables you to configure NVMe RAID storage for a wide range of high-performance applications.

A single SSD6540M enclosure can be shared between multiple desktops and workstations – the included controller card is also available as a standalone accessory, and can be installed into any system with a free dedicated PCIe 3.0 x16 slot.

In addition, M.2 SSD's hosted by the SSD6540M can be installed into any M.2 capable SSD7100 series RAID controller; your array and data will remain intact and accessible.

Kit Contents

- 1x 4-Bay Tower Enclosure
- 1x PCIe 3.0 x16 RAID Controller
- 4x Drive Trays
- 4x M.2 Drive to U.2 Host Adapter
- 2x HD mini-SAS cable (1 meter)
- 1x UL Power Cord
- 1x Quick Installation Guide

SSD6540M Hardware

Controller Card



Back Port: SFF-8644

Panel Layout-Front View



Disk Present LED:

Solid Blue

Disk Active LED:

Flash Blue

Disk Fail LED:

Solid Red

Enclosure Power LED:

Solid Blue

Temperature Warning LED:

Solid Yellow

Fan/Temperature Fail LED:

Solid Red

Panel Layout-Rear View



M.2 Drive to U.2 Host Adapter and Tray



System Requirements

PC 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 10.13.6 ~ macOS 13.x

Enclosure Setup

1. Place the SSD6540M enclosure on a level surface and remove each disk trays.
2. Unscrew and remove the ‘M.2 to U.2 Adapter’ from the disk tray.
3. Insert the NVMe M.2 SSD into ‘M.2 to U.2 Adapter’.



Note: Please make sure all disks are clean before you insert the Controller Card into the slot to avoid unexpected situations.

- Carefully insert the 'M.2 to U.2 Adapter' into the disk tray and secure it with the provided mounting screws.
- Connect the SSD6540M enclosure to the Controller Card using the HD mini-SAS cable.

The channel of the RAID Controller is displayed as follows:



- Install the Controller card into a motherboard PCIe slot (PCIe 3.0 x16 is required for maximum performance).
- Connect the SSD6540M enclosure to a power source.
- With the power cord connected to the power supply and

mini-SAS cable connected to the Controller Card and enclosure, press the power button on the rear panel to turn on the SSD6540M.

Resources

A variety of manuals, guides and FAQ's are available for the SSD6540M NVMe RAID enclosure.

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

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

<https://www.highpoint-tech.com/nvme1/ssd6540m>

Certified Accessories:

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

FAQ & Troubleshooting:

[FAQ - HighPoint Technologies, Inc. \(helpjuice.com\)](https://www.highpoint-tech.com/helpjuice.com)

Customer Support

If you encounter any problems while utilizing the SSD6540M, 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>

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