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2M2-REMOVABLE-PCIE Dual Bay SSD to PCIe x8 Removable Mobile Rack

StarTech 2M2-REMOVABLE-PCIE Dual Bay SSD to PCIe x8 Removable Mobile Rack User Guide

Contents

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Product Information

For the latest drivers/software, technical specifications, and declarations of conformance, please visit:
www.StarTech.com/2M2-REMOVABLE-PCIE

Specifications:

- **Product Model:** Dual-Bay M.2 NVMe SSD Backplane for PCIe x8 Slot with Bifurcation
- **Product ID:** 2M2-REMOVABLE-PCIE
- **Components:**
    1. Full-Profile Bracket
    2. M.2 Drive Trays
    3. Active Cooling Fans
    4. PCIe x8 Connector
    5. Key Lock for Drive Tray
    6. Drive LED Indicator

Installation:

Install the M.2 Storage Drives:

1. Remove the Drive Tray from the M.2 NVMe SSD Backplane.
2. Remove the Heat Sink Cover from the Removable Drive Tray by pressing the two Plastic Heat Sink Latching Locks.
3. Place the Drive next to the Drive Tray and match the Adjustable Standoff Holes.
4. Remove the Adjustable Standoff and install it in the corresponding holes.
5. Insert the Drive into the Removable Drive Tray's M.2 Connector.
6. Gently slide the M.2 Drive Connector into the M.2 Connector of the Drive Tray.
7. Optionally, install the Drive Mounting Screw to secure the Drive in place.

Install the M.2 NVMe SSD Backplane:

1. Turn off the Computer and disconnect all peripherals.
2. Remove the Cover from the Computer Case.
3. Locate an open PCIe x8 or x16 Slot that supports PCIe Bifurcation and remove the Metal Cover Plate.
4. Gently insert the M.2 NVMe SSD Backplane into the open PCIe slot and fasten the Bracket.
5. Replace the Cover on the Computer Case.

Install the Drive Trays:

1. Ensure the Drive Tray Lock is in the Unlocked position.
2. Align the Drive Tray with the Drive Tray Bay on the M.2 NVMe SSD Backplane.
3. Gently insert the Drive Tray until fully inserted.

FAQ:

Can I hot-swap drives while the computer is turned on?
Hot swapping drives while the computer is turned on depends on the Computer/Motherboard. Please consult with the manufacturer regarding PCIe Hot Swap support.
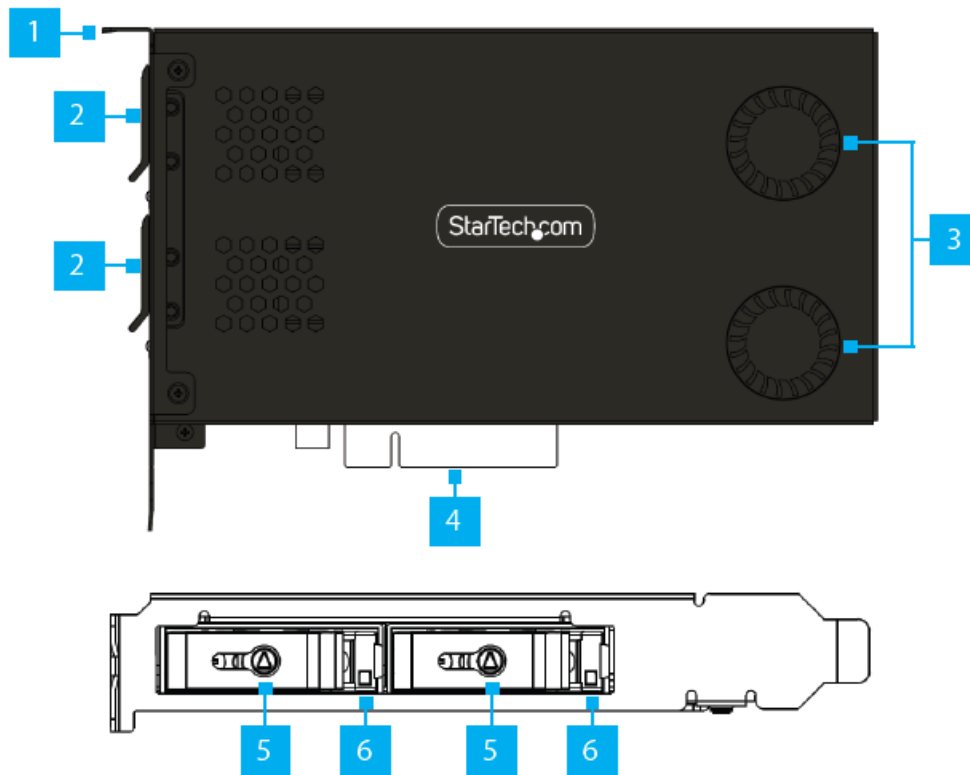
To view manuals, FAQs, videos, drivers, downloads, technical drawings, and more, visit
www.startech.com/support.

- **Manual Revision:** April 3, 2024

Product Description

Product ID
2M2-REMOVABLE-PCIE

Component		Function
1	Full-Profile Bracket	• Secure the **M.2 NVMe SSD Backplane** to the **Computer Case**
2	M.2 Drive Trays	• Hosts the **M.2 Drives** for the **M.2 NVMe SSD Backplane**
3	Active Cooling Fans	• Vents air away from the **M.2 NVMe Drives**
4	PCIe x8 Connector	• Connect the **M.2 NVMe SSD Backplane** to a **PCIe Slot** in the **Computer**
5	Key Lock for Drive Tray	• Use the included **Key** to Lock or Unlock the **M.2 Drive Trays** from the **M.2 NVMe SSD Backplane**
6	Drive LED Indicator	• **Red:** Connected Drive is Not Supported • **Green:** Connected Drive is Supported • **Yellow:** Flashes to indicate Drive Activity

Product Information
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Package Contents

- Dual-Bay M.2 NVMe SSD Backplane x 1
- Removable M.2 Drive Tray x 2
- M.2 Drive Mounting Screw x 2

- Set of Keys x 1
- Quick-Start Guide x 1

Requirements

- Computer x 1
    - PCIe x8 or x16 Slot with Bifurcation support
- PCI Express M.2 SSD x 2
- Phillips Head Screwdriver x 1

Installation

Warning:
PCIe Cards can be damaged by static electricity. Ensure that the Installer is properly grounded before they open the Computer Case or touch the M.2 NVMe SSD Backplane. The Installer should wear an Anti-Static Strap when installing any computer component. If an Anti-Static Strap is not available, discharge any built-up static electricity by touching a large Grounded Metal Surface for several seconds. Only handle the M.2 NVMe SSD Backplane by its edges and do not touch the gold connectors.

Note:
Consult the documentation that came with the Computer/Motherboard for details regarding how to enable and configure PCIe Bifurcation.

Install the M.2 Storage Drives

1. Remove the Drive Tray from the M.2 NVMe SSD Backplane
2. Remove the Heat Sink Cover from the Removable Drive Tray by pressing the two Plastic Heat Sink Latching Locks, located near the back of the tray, towards each other.
3. Place the Drive next to the Drive Tray and note the Adjustable Standoff Holes that match the length of the Drive.
4. Remove the Adjustable Standoff by pressing the side of the Adjustable Standoff and sliding it towards the front of the tray.
5. Install the Standoff in the Adjustable Standoff Holes that match the length of the Drive.
6. Insert the Drive into the Removable Drive Tray's M.2 Connector
   Note: The M.2 Connector on the Drive is M-Keyed so that it only fits M-Keyed NVMe M. 2 Storage Devices
7. Gently slide the M.2 Drive Connector into the M.2 Connector of the Drive Tray, and press the Drive down toward the adapter until the Drive is properly seated.
8. (Optional) Install the Drive Mounting Screw to secure the Drive in place.
9. Replace the Heat Sink Cover.
10. Repeat Steps 1 – 9 for the second M.2 NVMe Drive.

Install the M.2 NVMe SSD Backplane

1. Turn off the Computer and disconnect the Power Cable and any Peripheral Devices that are connected (e.g. printers, external hard drives, etc.).
2. Remove the Cover from the Computer Case.

Note: Consult the documentation that came with the Computer for details about how to do this safely.

3. Locate an open PCIe x8 or x16 Slot that supports PCIe Bifurcation and remove the corresponding Metal Cover Plate from the rear of the Computer Case. In most instances, the Metal Cover Plate is attached to the rear of the Computer Case with a single Phillips Head Screw. Save this Phillips Head Screw for the next step.

4. Gently insert the M.2 NVMe SSD Backplane into the open PCIe x8 or x16 Slot and fasten the Bracket to the rear of the Computer Case, using the Phillips Head Screw from Step 4.

5. Replace the Cover from the Computer that was removed in Step 2.

Install the Drive Trays

Note:
Hot swapping the drives while the computer is turned on is dependent on the Computer/Motherboard. Please consult with the manufacturer regarding PCIe Hot Swap support.

1. Ensure the Drive Tray Lock is in the Unlocked position.

2. Align the Drive Tray with the Drive Tray Bay located on the M.2 NVMe SSD Backplane at the rear of the Computer.

3. Gently insert the Drive Tray until it is fully inserted.
   Note: Make sure the drive tray is fully inserted before closing the latch. If inserted properly, the drive tray will be flush with the PCIe bracket. If the drive tray is inserted incorrectly, the drive tray will protrude from the PCIe bracket and the drive tray will not make full contact in the drive bay.

4. Use one of the included Keys to Lock the Drive Tray in place.

5. Repeat Steps 1 – 4 for the second M.2 NVMe Drive.

6. Reconnect the Power Cable to the rear of the Computer.

7. Power on the Computer and all connected Peripheral Devices.

Regulatory Compliance

FCC – Part 15
This equipment has been tested and found to comply with the limits for a Class B digital device, under part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used by the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

2. Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

Industry Canada Statement
This Class B digital apparatus complies with Canadian ICES-003.

CAN ICES-3 (B)/NMB-3(B)
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and

2. This device must accept any interference, including interference that may cause undesired operation of the device.

Warranty Information

- This product is backed by a two-year warranty.

- For further information on product warranty terms and conditions, please refer to
  www.startech.com/warranty.

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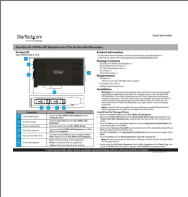

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Documents / Resources

	[StarTech 2M2-REMOVABLE-PCIE Dual Bay SSD to PCIe x8 Removable Mobile Rack](#) [pdf] User Guide 2M2-REMOVABLE-PCIE Dual Bay SSD to PCIe x8 Removable Mobile Rack, 2M2-REMOVABLE-PCIE, Dual Bay SSD to PCIe x8 Removable Mobile Rak, to PCIe x8 Removable Mobile Rack, Removable Mobile Rack, Mobile Rack, Rack

References

- **[User Manual](#)**