

Dual-Bay M.2 NVMe SSD to PCIe x8 Removable Mobile Rack; Bifurcation Required; Tool-less Installation, PCIe Backplane w/Two Hot-Swap Drive Bays

Product ID: 2M2-REMOVABLE-PCIE



Utilize an available PCIe x8 expansion slot to install, remove, or swap PCIe M.2 SSDs. Supports 2230, 2242, 2260, and 2280 M-Key M.2 NVMe SSDs with high-performance read/write speeds up to 64Gbps per drive.

Toolless installation allows an M.2 drive to be placed into the drive tray or inserted into the drive bay without needing tools. It features a power/activity LED indicator, a latching drive tray, and a lockable installation with two included keys.

Provide quick-swap external access to internal M.2 NVMe drives without needing external enclosures or adapters, which can affect throughput. Without chipsets or adapters, the drives maintain full performance of up to 64Gbps per drive. The ability to quickly remove drives is ideal for servicing, replacing, or upgrading M.2 drives. Additional drive trays, TR-M2-REMOVABLE-PCIE, are sold separately.

Vented stainless steel frame, bracket, and tray with thermal pads, along with an aluminum cover and active cooling fans help dissipate heat to ensure the drives stay cool during operation. Anti-vibration springs on the drive tray reduce shock or vibrations, and an optional screw provides additional stability.

No on-board chip means to no drivers or software requirements and is compatible with any operating system, including Windows and Linux. M.2 backplane works with PCI Express 4.0/3.0 motherboards that support PCIe bifurcation and have an available x8 or x16 slot.

Certifications, Reports and Compatibility





Applications

- Add a high-speed external storage solution to quickly transfer and backup large files, such as videos, images, and project files

Features

- **DUAL REMOVABLE M.2 DRIVE BAYS:** Use an available PCIe 4.0 x8 or x16 expansion slot to install, swap, or upgrade PCIe M.2 SSDs; Supports 2230, 2242, 2260, and 2280 M-Key M.2 NVMe SSDs; Additional drive trays sold separately (TR-M2-REMOVABLE-PCIE)
- **TOOLLESS INSTALLATION:** Install an M.2 drive into the drive tray or insert the tray into the drive bay without the need for tools; Power/Activity LED indicator; Drive tray features a latching mechanism and is lockable for secure installation (2 keys incl.)
- **EFFECTIVE EXPANSION:** Provide quick-swap external access to internal M.2 NVMe drives without requiring external enclosures or adapters; Maintain full drive performance of up to 64Gbps per drive; Ideal for servicing, replacing, or upgrading M.2 drives
- **RELIABLE PERFORMANCE:** Vented stainless steel frame, bracket, & tray w/thermal pads, along w/an aluminum cover & active cooling fans, aid in heat dissipation; Anti-vibration springs on the drive tray reduce shock or vibrations; Optional screw for stability
- **COMPATIBILITY:** No drivers or software required and works w/any OS (e.g., Windows, Linux); Compatible with PCI Express 4.0/3.0 motherboards with PCIe Bifurcation and an available x8 or x16 slot; PCIe bifurcation required; Not compatible with M.2 SATA drives

Hardware

Warranty	2 Years
Front Door Key Lock	Yes
Fan(s)	Yes
Interface	PCI Express x8
Bus Type	PCI Express
Industry Standards	PCI Express 4.0
Number of Drives	2
Drive Size	22 mm - M.2 NVMe

Compatible Drive Types	M.2 (PCIe, NVMe, M-Key, NGFF)
Drive Installation	Removable
Supported Drive Height(s)	2230
	2242
	2260
	2280

Performance

Maximum Data Transfer Rate	128Gbps
TRIM Support	Yes
4Kn Support	Yes
S.M.A.R.T. Support	Yes
Shock Protection	Yes
Type and Rate	PCI Express 4.0 (16 Gbps per lane)
Hardware Raid Supported	No
Hot Swap Capability	Yes
MTBF	40,000 Hours

Connector(s)

Drive Connectors	2 - M.2 (NVMe, M-Key, PCIe x4)
Host Connectors	1 - PCI Express x8

Software

OS Compatibility	No Drivers or Software Required
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Special Notes / Requirements

System and Cable Requirements	PCIe bifurcation is required to read and write to multiple drives
Note	This product is not compatible with M.2 SATA drives.
	NVMe SSDs require drivers provided by the manufacture of the drive or may be natively provided by the OS (Windows 8 and

later - Mac OS 10.10.3 and later). Earlier OS versions do not have native NVMe support.

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

Indicators

LED Indicators	2 - Red: Connected Drive is Not Supported
	2 - Green: Connected Drive is Supported
	2 - Yellow: Flashes to indicate Drive Activity

Power

Power Source	Bus Powered
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Environmental

Operating Temperature	0C to 50C (32F to 122F)
Storage Temperature	-10C to 60C (14F to 140F)
Humidity	10% ~ 60% RH

Physical Characteristics

Color	Black
Product Length	4.8 in [12.1 cm]
Product Width	7.3 in [18.6 cm]
Product Height	0.7 in [1.9 cm]
Weight of Product	13.2 oz [373.0 g]

Packaging Information

Package Length	5.9 in [15.1 cm]
Package Width	9.1 in [23.0 cm]
Package Height	1.8 in [4.6 cm]
Shipping (Package) Weight	1.0 lb [0.5 kg]

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