

Dual M.2 PCIe SSD Adapter Card - x8 / x16 Dual NVMe or AHCI M.2 SSD to PCI Express 3.0 - M.2 NGFF PCIe (M-Key) Compatible - Supports 2242, 2260, 2280 - JBOD - Mac & PC

Product ID: PEX8M2E2



Upgrade your system speed and performance with this Dual M.2 PCIe SSD Adapter. It lets you add two high performance, enterprise-class PCIe 3.0 M.2 SSDs (NVMe and AHCI) into the PCIe 8-lane or larger slot of your desktop workstation or server.

The expansion card lets you take full advantage of the fast performance and compact size of PCIe M.2 internal solid-state drives. With the M.2 PCIe based drives in place, the adapter increases your storage capacity and gives your computer a significant speed boost, enhancing data transfer rates.

The dual M.2 to PCIe expansion card employs a high-speed ASM2824 switch, allowing you to access two drives at the same time. Since the adapter card does not rely on PCIe bifurcation, it can easily be integrated into all systems, new and legacy.

The M.2 PCI express adapter also gives you the flexibility to access your M.2 PCIe SSDs individually. Or, you can utilize software RAID to build a RAID array to add redundancy or enhance system performance.

The adapter connects directly to your computer motherboard to support two PCIe M.2 SSDs through a x8 PCIe expansion slot. The adapter is compatible with PCIe 3.0 motherboards and is backward compatible with PCIe 2.0 and PCIe 1.0.

The PCIe M.2 NGFF (M Key) adapter supports PCIe 3.0 NVMe and PCIe-AHCI M.2 SSDs including 2242, 2260, and 2280 drives, supporting the most common drive sizes: 42, 60, and 80 mm lengths.

The expansion card comes with a full-profile bracket pre-installed, and includes a half-height / low-profile bracket, for installation in small form-factor computers.

Vented brackets on the PCIe M.2 NGFF SSD adapter card increases air flow to assist in heat dissipation.

The TAA compliant PEX8M2E2 is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

Applications

- Connect two PCIe M.2 SSDs to your desktop computer or server to boost system speed and increase internal data storage
- Get ultra-fast data access, ideal for high-performance workstations
- Install your operating system on an M.2 PCIe based drive for fast access, while keeping larger platter drives available for bulk storage

Features

- **HIGH PERFORMANCE:** Install 2 PCIe 3.0 M.2 SSDs (NVMe or AHCI) into your workstation or server for read/write speeds up to 3GB/s and 2.8GB/s for single-drives or 2.4GB/s and 1.42GB/s (per drive) for 2
- **WIDE COMPATIBILITY:** Dual M.2 PCIe SSD adapter card was extensively tested to ensure compatibility w/ Samsung 970 evo, 950 Pro, SM951, & other 2242, 2260, 2280mm PCIe M-Key M.2 NGFF SSDs (NVMe or AHCI)
- **BACKWARD COMPATIBILITY:** Compatible w/ PCIe 1.0 & 2.0 and x8 or x16 slots, PCIe bifurcation is not required. Works with all workstation and server OS's such as Windows, Linux, and macOS incl. legacy.
- **RAID FUNCTIONALITY:** M.2 PCI Express adapter lets you use SSDs individually or in a storage pool using OS or 3rd party RAID software (RAID 0, 1, SPAN, JBOD) for tiered/hybrid storage
- **VENTED DUAL-PROFILE BRACKETS:** Pre-installed full profile bracket with low-profile (half-height) bracket in box & vented design for better cooling, avoiding drive throttling and improving reliability.

Hardware

Warranty	2 Years
Interface	PCI Express x8
Bus Type	PCI Express
Number of Drives	2
Drive Size	22m - M.2 NGFF
Compatible Drive Types	M.2 (PCIe, AHCI, M-Key, NGFF) M.2 (PCIe, AHCI, M-Key, NGFF)
Drive Installation	Fixed
Supported Drive Height(s)	2242

	2260
	2280
Chipset ID	ASMedia - ASM2824

Performance

Type and Rate	PCI Express 3.0 (8 Gbps)
Hardware Raid Supported	No
Hot Swap Capability	No
Insertion Rating	60 cycles
MTBF	3336103 hours

Connector(s)

Drive Connectors	M.2 (PCIe, M-Key, AHCI/NVMe, NGFF)
Host Connectors	PCI Express x8
Other Interface(s)	IDC (2 pin, Motherboard Header)

Software

OS Compatibility	OS independent; No software or drivers required
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Environmental

Operating Temperature	0C to 70C (32F to 158F)
Storage Temperature	-25C to 70C (-13F to 158F)
Humidity	15% ~ 90% RH

Physical Characteristics

Color	Red
Product Length	6.3 in [15.9 cm]
Product Width	0.6 in [16 mm]
Product Height	2.7 in [69 mm]
Weight of Product	3.1 oz [88 g]



**Packaging
Information**

Package Length	8.5 in [21.7 cm]
Package Width	6.2 in [15.7 cm]
Package Height	1.6 in [40.0 mm]
Shipping (Package) Weight	7.1 oz [201.0 g]

**What's in the
Box**

Included in Package	x8 PCI Express to Dual M.2 PCIe SSD Adapter
	Full-Profile Bracket (Pre-installed)
	Low-Profile Bracket
	SSD Standoff and Installation Screws
	Quick-Start Guide

****Product appearance and specifications are subject to change without notice.***

