

2x M.2 NGFF SSD RAID Controller Card plus 2x SATA III Ports - PCIe

Product ID: PEXM2SAT3422



This M.2 SSD RAID controller card lets you install two M.2 NGFF (Next Generation Form Factor) drives in your desktop computer. The card also features two SATA III (6Gbps) ports and supports hardware RAID. Now, you can merge the speed and compact size of M.2 solid state drives (SSD) with the storage capacity of traditional hard disk drives (HDD).

This M.2 controller card lets you take advantage of the size and performance benefits of NGFF SSDs. M.2 drives are smaller than typical platter drives or mSATA-based SSDs, so you can install them in small form-factor PCs and servers, or in tighter areas within your computer case.

When you couple the card with an M.2 drive, you can give your computer's performance a noticeable speed boost. By installing your operating system on the M.2 drive, you'll have faster access to the files you commonly use, and you can continue to use your higher-capacity platter HDD for bulk storage.

Due to their performance and size advantages, M.2 drives are commonly used in laptops. If your laptop has failed but its M.2 drive is functional, then this card can help with data recovery. Once the M.2 drive is installed and the data recovery is complete, you can continue to use the drive for storage and backup purposes.

If you need a scalable, internal storage solution that you can count on, then this card can help. It supports a range of RAID configurations (RAID 0, 1, and 10), giving you multiple ways to expand your storage, improve your computer's performance, or to create data redundancy backups.

Because the M.2 card supports port multiplication, you can connect up to four drives to one of the card's SATA ports. With a built-in port multiplier, you can install up to seven drives (two M.2 SSDs, five SATA drives) in your computer through this single drive controller.

You can rest assured that your M.2 SATA drives are compatible with the card. It supports the most common drive sizes, including 22110, 2280, 2260, 2242 and 2230. For more versatility, the card also supports hybrid drives.

The PEXM2SAT3422 is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility



Applications

- Increase the internal storage capacity of your standard or small form-factor computer
- Create a RAID array and add the security of data redundancy and increased storage to your PC
- Access and recover data from almost any M.2 SSD, such as drives pulled from laptops and other computers
- Optimize your system for I/O intensive applications such as office suites, photo and video editing, and media players

Features

- **EXPAND STORAGE CAPABILITIES:** This M.2 SATA RAID Controller Card adds two internal M.2 SATA ports and two 7-pin SATA ports through PCIe, for convenient setup of hardware RAID configurations or additional storage drives; Supports Windows, Mac, and Linux
- **VERSATILE HARDWARE RAID:** Supports Hardware RAID 0, 1, 10 (1+0), and JBOD (Just a Bunch of Disks); Port Multiplier supports up to four SATA drives on a single SATA host port; Supports up to seven total drives (2x M.2 SSDs, 5x SATA drives)
- **WIDE COMPATIBILITY:** Supports all standard SATA and M.2 NGFF drive sizes (22110, 2280, 2260, 2242, 2230); Adjustable stand-offs and mounting holes; Compatible with PCIe x4, x8, or x16 slots; Includes full & low-profile brackets and M.2 mounting screws
- **INCREASED PRODUCTIVITY:** This M.2 SATA RAID Controller Card is the ideal solution for creating a high-performance hardware RAID array to protect and back up your data, or expand your system's storage capabilities to improve overall performance
- **THE IT PRO'S CHOICE:** Designed and built for IT professionals, this TAA compliant M.2 SATA SSD RAID Controller Card is backed for 2 years, including free lifetime 24/5 multi-lingual technical assistance

Hardware

Warranty

2 Years

Ports	2
Interface	M.2 SATA
	SATA
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)
Port Style	Integrated on Card
Industry Standards	Serial ATA 3.0 specification - SATA I/II/III (1.5/3/6Gbps)
	PCI Express 2.0
	Hardware RAID 0, RAID 1, RAID 10
Chipset ID	Marvell - 88SE9230

Performance

Type and Rate	SATA III (6 Gbps)
Port Multiplier	Yes
Number of Ports That Support Port Multiplier	2 (can only use 1 PM at a time)
Number of Drives Supported Through Port Multiplier	1 to 4
Bootable	Yes
Hardware Raid Supported	Yes
Supported RAID Modes	JBOD - (Just a Bunch of Disks)
	RAID 1 (Mirrored Disks)
	RAID 0 (Striped Disks)
	RAID 10 (1+0, Striped set of Mirrored Subset)
ATAPI Support	Yes

Connector(s)

Connector Type(s)	1 - PCI Express x4
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Internal Ports	2 - M.2 (SATA, B-Key, NGFF)
	2 - SATA (7 pin, Data)
	1 - SP4 (4 pin, Small Drive Power)

Software

OS Compatibility	Windows XP, Vista, 7, 8, 8.1, 10, 11
	Windows Server 2003, 2008 R2, 2012, 2012 R2, 2016, 2019, 2022
	Mac OS 10.6 to 10.14
	Linux 3.5.x and up - <i>LTS Versions only</i>
	Note: Connected drives cannot be used as System / Primary drive in Windows Server 2012, 2012 R2, 2016, 2019

Special Notes / Requirements

System and Cable Requirements	PCI Express x4 slot (backward compatible with x8, and x16 slots)
Note	The maximum throughput of this card is limited by the bus interface. If used with PCI Express Gen 1.0 enabled computers, the max throughput is 2.5Gbps per lane. If used with PCI Express Gen 2.0 enabled computers, the max throughput is 5Gbps per lane.
	The card's two SATA ports support port multiplier, up to seven drives total (including two M.2 drives). Only one SATA port can use port multiplier at a time, with up to four drives total connected through PM (in a non-RAID configuration)

Indicators

LED Indicators	2 - M.2 drive LEDs (Green)
	3 - Pin headers for LEDs

Environmental

Operating Temperature	5C to 50C (41F to 122F)
Storage Temperature	-25C to 70C (-13F to 158F)
Humidity	20%~80% RH (Non-condensing)

Physical Characteristics

Color	Red
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Material	Steel
Product Length	7.1 in [18 cm]
Product Width	0.8 in [2 cm]
Product Height	4.7 in [12 cm]
Weight of Product	2.3 oz [64 g]

Packaging Information

Package Quantity	1
Package Length	8.6 in [21.8 cm]
Package Width	6.3 in [16.0 cm]
Package Height	1.9 in [4.8 cm]
Shipping (Package) Weight	6.3 oz [178.0 g]

What's in the Box

Included in Package	1 - M.2 SSD RAID controller card
	1 - low-profile bracket
	2 - M.2 mounting screws
	1 - quick-start guide

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