

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).

Leverage the size and speed of M.2 drives

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.

Peace of mind, with simple and cost-effective data recovery

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.

Build a high-performance RAID array

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.

Connect even more drives with port multiplication

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.

Supports a wide range of drives

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

- Recover data or improve the performance and storage capacity of your desktop, by adding two M.2 solid-state drives (SSD) plus two SATA III drives
- Create a high-performance hardware RAID array to protect and back up your data or expand your storage — supports RAID 0, 1, 10 (1+0)
- Wide installation compatibility, with support for virtually all M.2 NGFF drives (22110, 2280, 2260, 2242, 2230), as well as hybrid drives
- Port multiplier lets you connect up to seven drives total, including two M.2 drives
- Two M.2 B-Key onboard sockets that support SATA III transfer speeds up to 6Gbps
- Adjustable stand-offs, and multiple mounting holes support 110 mm, 80 mm, 60 mm, 42 mm, and 30 mm SSDs
- Fast, hassle-free setup with native support on most operating systems
- Compliant with PCI Express 2.0 standards
- Supports Native Command Queuing (NCQ), as well as ATA and ATAPI commands
- PCIe bus-powered, or powered by your computer's power supply using a 4-pin floppy power connector (small drive power)
- Equipped with a full-profile bracket, includes a low-profile (half-height bracket) for installation in small form-factor computers
- Installs into x4, x8, or x16 PCIe slots

Hardware	Warranty	2 Years
	Bus Type	PCI Express
	Card Type	Standard Profile (LP bracket incl.)
	Chipset ID	Marvell - 88SE9230
	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
	Interface	M.2 SATA
Performance		SATA
	Port Style	Integrated on Card
	Ports	2
	ATAPI Support	Yes
	Bootable	Yes
	Number of Drives Supported Through Port Multiplier	1 to 4
	Number of Ports That Support Port Multiplier	2 (can only use 1 PM at a time)
	Port Multiplier	Yes
Connector(s)	RAID	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)
	Type and Rate	SATA III (6 Gbps)
	Connector Type(s)	1 - PCI Express x4 Male
	Internal Ports	2 - M.2 (SATA, B-Key, NGFF) Receptacle
Software		2 - SATA (7 pin, Data) Plug
		1 - SP4 (4 pin, Small Drive Power) Male
	OS Compatibility	Windows® XP, Vista, 7, 8, 8.1, 10
		Windows Server® 2003, 2008 R2, 2012, 2012 R2, 2016, 2019
		Mac OS® 10.6 to 10.14
		Linux 3.5.x to 4.11.x <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	Note	<p>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.</p> <p>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)</p>
	System and Cable Requirements	PCI Express x4 slot (backward compatible with x8, and x16 slots)
Indicators	LED Indicators	<p>2 - M.2 drive LEDs (Green)</p> <p>3 - Pin headers for LEDs</p>
Environmental	Humidity	20%~80% RH (Non-condensing)
	Operating Temperature	5°C to 50°C (41°F to 122°F)
	Storage Temperature	-25°C to 70°C (-13°F to 158°F)
Physical Characteristics	Product Height	4.7 in [12 cm]
	Product Length	7.1 in [18 cm]
	Product Width	0.8 in [20 mm]
	Weight of Product	2.3 oz [64 g]
Packaging Information	Package Height	1.9 in [47 mm]
	Package Length	6.4 in [16.2 cm]
	Package Width	8.6 in [21.9 cm]
	Shipping (Package) Weight	6 oz [169 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.