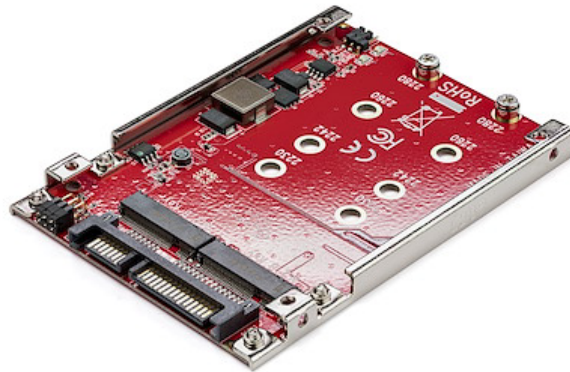Dual-Slot M.2 Drive to SATA Adapter for 2.5" Drive Bay - RAID

Product ID: S322M225R

Boost your system performance by enhancing the capacity, speed and security of your data storage. This two-drive M.2 to SATA adapter lets you install two M.2 SATA drives instead of a SATA platter drive, in a single 2.5" drive bay, and increase your storage options by configuring a powerful RAID array.

The dual M.2 to SATA adapter supports multiple RAID modes, including RAID 0, 1, or spanning, helping you to achieve greater SSD capacity or data redundancy, depending on your selected RAID mode. The SSD adapter also supports non-RAID operation (JBOD) when paired with a port-multiplying SATA controller, so both drives can be used independently of one another.

The M.2 SATA SSD adapter lets you utilize the full potential of your SATA III controller. Using M.2 SATA SSDs in place of a platter drive reduces your data transfer bottlenecks, giving you file transfer speeds of up to 6Gbps.

The M.2 NGFF SATA RAID adapter also provides TRIM support to enhance the stability and performance of your M.2 NGFF SSDs.

This open-frame adapter is easy to install as it comes with all the necessary installation hardware and doesn't require any extra software or drivers, to get you up and running quickly.

The S322M225R is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

Applications

• Take advantage of the speed of M.2 drives in any 2.5" SATA application

• Add data redundancy to your system or increase the storage capacity of your system through RAID

• Retrieve or back up data from M.2 (NGFF) drives using a standard SATA interface

• Access M.2 (NGFF) drives from an external source, such as a SATA drive enclosure or docking station

Features

• HIGH PERFORMANCE: Create a high-performance storage solution by installing up to two M.2 SATA SSDs into a 2.5" SATA adapter with RAID support for JBOD, SPAN, RAID 0, and RAID 1

• HASSLE-FREE SETUP: Open-frame steel mounting bracket with 2.5" SATA form factor fits in any 2.5" SATA bay that supports 7mm tall 2.5" drives. Easy to install with all necessary hardware incl. (M.2 drives and screwdriver not incl.)

• WIDE COMPATIBILITY: Supports B & B+M key SATA M.2 SSDs in 2230/2242/2260/2280 form factors. Supports SATA I, II, and III (up to 6 Gbps) TRIM, and SMART. M & B+M key NVMe or AHCI PCI-e M.2 SSDs not supported (only SATA supported)

• TRIM SUPPORT: TRIM support enhances the stability and performance of your M.2 SSDs plus it provides SMART support. TRIM supported in JBOD and RAID 1, SMART only supported in JBOD

• NOTE: Before purchasing this product or your M.2, please confirm if it is a SATA type, via manufacturer specifications/support; if you intend to use JBOD (don't intend to use RAID) then make sure that your SATA port/controller supports Port Multiplier.

Hardware

	Warranty	2 Years
	Interface	SATA
	Number of Drives	2
	Compatible Drive Types	M.2 (SATA, B-Key, NGFF)
	Drive Installation	Fixed
	Supported Drive Height(s)	2230
		2242

	2260
	2280
Chipset ID	ASMedia - ASM1092R

Performance

Maximum Data Transfer Rate	6 Gbps
TRIM Support	Yes
S.M.A.R.T. Support	Yes
Type and Rate	SATA III (6 Gbps)
Port Multiplier	Yes
Hardware Raid Supported	Yes
Supported RAID Modes	RAID 0 (Striped Disks)
	RAID 1 (Mirrored Disks)
	JBOD - (Just a Bunch of Disks)
	BIG (Spanning or Concatenation)
Hot Swap Capability	No
General Specifications	Not compatible with M.2 NVMe or AHCI PCI-Express SSDs
	In order to see multiple drives in JBOD mode, your computer's SATA controller must also support Port Multiplier.

Connector(s)

Drive Connectors	2 - M.2 (SATA, B-Key, NGFF)
Host Connectors	1 - SATA Data & Power Combo (7+15 pin)

Software

OS Compatibility	OS independent; No software or drivers required

Special Notes / Requirements

Note	TRIM and SMART have limited support while in a RAID configuration. A SATA controller with Port Multiplier support is required, in addition to the product configured in JBOD mode, to provide full TRIM and SMART support.

Power

	Input Voltage	5V DC / 12V DC
	Output Voltage	5 DC

Environmental

	Operating Temperature	+5C to +50C (+41F to +122F)
	Storage Temperature	-25C to +70C (-13F to +158F)
	Humidity	15% to 90%

Physical Characteristics

	Color	Red
	Material	Steel
	Product Length	3.9 in [10 cm]
	Product Width	2.8 in [70 mm]
	Product Height	0.3 in [0.7 cm]
	Weight of Product	1.4 oz [41 g]

Packaging Information

	Package Quantity	1
	Package Length	5.6 in [14.2 cm]
	Package Width	6.8 in [17.2 cm]
	Package Height	1.2 in [30 mm]
	Shipping (Package) Weight	3.9 oz [110 g]

What's in the Box

	Included in Package	1 - dual M.2 to SATA host adapter
		2 - sets of drive-mounting hardware
		4 - adapter-mounting screws
		1 - quick-start guide