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Data Sheet

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.

Build a RAID array to enhance system performance

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.

Maximize file transfer speeds

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.

Easy installation

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.

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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

- Install two M.2 SSD drives into a single 2.5” drive bay
- Multiple RAID modes supported: RAID 0, 1, spanning, or JBOD
- Open-frame steel mounting bracket with 2.5” SATA form factor housing
- Supports 7 mm or larger 2.5" SATA bays
- Supports B key M.2 SATA SSDs - full-length M.2 drives (2230, 2242, 2260, 2280)
- Not compatible with M.2 NVMe or AHCI PCI-Express SSDs
- Supports SATA I, II and III (up to 6Gbps)
- TRIM support to enhance the stability and performance of your M.2 NGFF SSDs
- SMART support
- Easy to install with all necessary hardware included

	Warranty	2 Years
Hardware	Chipset ID	ASMedia - ASM1092R
	Compatible Drive Types	M.2 (SATA, B-Key, NGFF)
	Drive Installation	Fixed
	Interface	SATA
	Number of Drives	2
	Supported Drive Height(s)	2230
		2242
		2260
		2280
Performance	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.
	Hot Swap Capability	No
	Maximum Data Transfer Rate	6 Gbps
	Port Multiplier	Yes
	RAID	Yes
	S.M.A.R.T. Support	Yes
	Supported RAID Modes	RAID 0 (Striped Disks)
		RAID 1 (Mirrored Disks)
		JBOD - (Just a Bunch of Disks)
		BIG (Spanning or Concatenation)
	TRIM Support	Yes
	Type and Rate	SATA III (6 Gbps)
Connector(s)	Drive Connectors	2 - M.2 (SATA, B-Key, NGFF) Receptacle
	Host Connectors	1 - SATA Data & Power Combo (7+15 pin) Receptacle
Software	OS Compatibility	OS independent; No software or drivers required
Environmental	Humidity	15% to 90%
	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	Color	Red

	Product Height	0.7 cm [0.3 in]
	Product Length	10 cm [3.9 in]
	Product Width	70 mm [2.8 in]
	Weight of Product	41 g [1.4 oz]
Packaging Information	Package Height	30 mm [1.2 in]
	Package Length	14.2 cm [5.6 in]
	Package Width	17.2 cm [6.8 in]
	Shipping (Package) Weight	110 g [3.9 oz]
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

Product appearance and specifications are subject to change without notice.