Dual M.2 SATA Adapter with RAID - TAA

Product ID: 25S22M2NGFFR

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 solid-state drives in a single 2.5" drive bay and configure a powerful RAID array.

The dual M.2 to SATA adapter supports multiple RAID modes (RAID 0, 1, BIG) 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 independent of one another.

The dual SSD adapter lets you utilize the full potential of your SATA III controller. Using M.2 SSDs in place of a platter drive reduces your data transfer bottlenecks and gives you file transfer speeds of up to 6 Gbps. M.2 SSDs also save you money by reducing your power consumption over regular platter drives.

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

The M.2 to SATA adapter features an enclosed housing that helps protect your NGFF (Next Generation Form Factor) SSD. The added protection gives you peace of mind when you are using your M.2 drives in applications that require an added level of durability such as hot-swap drive bays, or external SATA docking stations.

The 25S22M2NGFFR is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

OperatingSystem
Independent

Applications

• Add data redundancy to your system, by adding a mirrored SSD (RAID 1)

• Increase the storage capacity of your system by adding an additional SSD in a RAID array (RAID 0/BIG)

• Turn two unused M.2 drives into a regular 2.5in SATA solid-state drive

• Retrieve/backup data from an M.2 (NGFF) drive using a standard SATA computer

• Use M.2 drives in any 2.5 in. SATA application

Features

• Install two M.2 NGFF SSDs into a single 2.5" SATA bay and build a powerful RAID array

• Supports RAID 0, RAID 1, spanning, or JBOD

• Add M.2 SSD performance to any computer system by converting M.2 to SATA

• Protect your M.2 (NGFF) SSDs in any 2.5in application with enclosed housing

• Supports TRIM to help ensure stable performance of your M.2 SSDs

• Supports SATA I/II/III (up to 6Gbps)

• 2.5in SATA form factor housing

• Broad compatibility with support for the most common SATA M.2 SSDs (2230, 2242, 2260, 2280)

• Not compatible with M.2 NVMe or AHCI PCI-Express SSDs

Hardware

	Warranty	2 Years
	Interface	SATA
	Number of Drives	2
	Drive Size	22m - M.2 NGFF
	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	6Gbps	
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)	
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.	
MTBF	500000	

Connector(s)

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

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.	

Indicators

LED Indicators	2 - Drive Error

Power

Input Voltage	5V DC
Output Voltage	5 DC

Environmental

Operating Temperature	0C to 50C (32F to 122F)
Storage Temperature	-10C to 85C (14F to 185F)
Humidity	5% ~ 95% RH

Physical Characteristics

Color	Black & Silver
Material	Steel and Plastic
Product Length	3.9 in [99.0 mm]
Product Width	2.8 in [7.0 cm]
Product Height	0.3 in [0.8 cm]
Weight of Product	1.9 oz [55.0 g]

Packaging Information

Package Quantity	1
Package Length	6.2 in [15.8 cm]
Package Width	5.2 in [13.2 cm]
Package Height	1.3 in [3.2 cm]
Shipping (Package) Weight	4.2 oz [118.0 g]

What's in the Box

Included in Package	1 - dual M.2 NGFF SATA RAID adapter
	2 - M.2 drive mount hardware

4 - screws

1 - mini screwdriver

1 - quick start guide

Product appearance and specifications are subject to change without notice.