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Data Sheet

Dual-Slot Drive Enclosure for M.2 SATA SSDs - USB 3.1 (10Gbps) - RAID

Product ID: SM22BU31C3R



This dual M.2 SATA enclosure with RAID makes it easy to add ultra-fast, portable external storage to your USB-C™ or USB-A enabled laptop, tablet, smartphone or desktop computer. Its multiple RAID modes provide increased capacity, improved performance, or data redundancy.

Access your external data at greater speeds

Quickly access, transfer, and backup your files wherever you go. This dual-slot M.2 RAID enclosure enables you to easily access your data by creating a high-performance, ultra-portable storage solution using two M.2 (NGFF) SATA SSDs. It’s ideal for creative professionals, such as photographers and videographers, as well as professionals in corporate, educational and government sectors who need fast access to important data files, while out in the field or back at the office.

The RAID enclosure enables you to leverage the speed of your M.2 (NGFF) SATA drives by taking advantage of USB 3.1 Gen 2, with data transfer rates of up to 10Gbps. It ensures easy access to your files for data migration and data backups so that you can safeguard important data at all times.

Increase performance and data redundancy

With multiple RAID options, the M.2 RAID enclosure enables you to gain increased storage size, performance, or redundancy. You can enjoy the peace of mind of knowing your files are continually backed up, or take advantage of greater speed and capacity offered by a combined solution. The enclosure supports RAID 0, RAID 1, Spanning, and JBOD, enabling you to choose your preferred backup mode. It also supports SSD TRIM to prolong drive lifespan and performance.

Make your data more portable

The dual M.2 SATA enclosure provides a highly portable storage solution. With its compact design, you can tuck it away inside your laptop bag or carrying case and take it anywhere - to the office, the lab, or for mobile use, so that you can access your data wherever you go. Engineered with a solid aluminum housing, the dual-slot M.2 SATA enclosure helps to safeguard your data wherever you go.

The M.2 SATA RAID enclosure is powered directly from the USB port on your device, so no external power is required. It comes with two USB cables (USB-C to Micro-B and USB-A to Micro-B) for flexible use with the latest laptops and tablets equipped with a USB-Type C™ port as well as legacy devices. The enclosure is OS independent, with no additional software or driver installation required, and is compatiIt's also compatible with a Thunderbolt™ 3 USB-C port.

The SM22BU31C3R includes all required drive installation tools and hardware and is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

RoHS & REACH DOWNLOAD DECLARATION

TAA COMPLIANT

Applications

- Professionals in a wide range of industries, from corporate to medical fields, can take advantage of high-speed data access for their USB-C or USB-A enabled laptop, tablet, smartphone or desktop computer
- Mobile professionals can utilize two M.2 (NGFF) SATA SSDs to access, transfer and backup files with faster speeds over USB 3.1 Gen 2 (10Gbps)
- Re-use or re-purpose M.2 SATA drives to expand PC storage or to back up data
- Ideal for protecting drives against dust and other potential hazards
- Access drives for data recovery, backup, or repair

Features

- Maximize the performance of your M.2 (NGFF) SATA drives with USB 3.1 Gen 2 (10Gbps) connectivity
- Supports RAID 0, RAID 1, JBOD and SPAN (BIG) for optimal performance, capacity and redundancy
- Supports all common M.2 SATA SSDs, and enables you to mount multiple drive lengths: 30 mm (2230), 42 mm (2242), 60 mm (2260) and 80 mm (2280)
- Not compatible with M.2 NVMe or AHCI PCI-Express SSDs
- Add fast, portable external storage to your USB-C or USB-A enabled laptop, tablet, smartphone or desktop computer
- Supports SSD TRIM to prolong drive lifespan and performance
- Solid aluminum enclosure with SATA I, II, III (up to 6Gbps) support
- Compatible with Thunderbolt 3 USB-C port
- Backward compatible with USB Gen 1 (USB 3.0), USB 2.0, USB 1.x

	Warranty	2 Years
Hardware	Bus Type	USB 3.1 Gen 2
	Chipset ID	ASMedia - ASM1352R
	Compatible Drive Types	M.2 (SATA, B-Key, NGFF)
	Drive Installation	Fixed
	Drive Size	22mm - M.2 SATA
	Fan(s)	No
	Interface	USB 3.1 Gen 2
	Number of Drives	2
	Supported Drive Height(s)	2230
		2242
		2260
		2280
Performance	4Kn Support	Yes
	General Specifications	Not compatible with M.2 NVMe or AHCI PCI-Express SSDs
	Max Drive Capacity	2 TB
	Maximum Data Transfer Rate	10 Gbps
	MTBF	35,000
	Port Multiplier	Yes
	RAID	Yes
	Supported RAID Modes	RAID 0 (Striped Disks)
		RAID 1 (Mirrored Disks)
		BIG (Spanning or Concatenation)
		JBOD - (Just a Bunch of Disks)
	TRIM Support	Yes
	Type and Rate	USB 3.1 Gen 2 - 10 Gbit/s
		SATA III (6 Gbps)
	UASP Support	Yes
Connector(s)	Drive Connectors	2 - M.2 (SATA, B-Key, NGFF)
	Host Connectors	1 - USB 3.1 USB Type Micro-B (10 pin, Gen 2, 10 Gbps) Male
Software	OS Compatibility	OS independent; No software or drivers required

Special Notes / Requirements	**Note**	Windows 7 and earlier Windows versions do not support TRIM with USB to SATA devices.
Indicators	LED Indicators	2 - Read / Write (green)
		2 - Error / Rebuilt (red)
Power	Power Source	USB-Powered
Environmental	Humidity	0% ~ 90% RH
	Operating Temperature	0°C to 60°C (32°F to 140°F)
	Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Physical Characteristics	Color	Black
	Enclosure Type	Aluminum
	Max Drive Height	3.1 in [80 mm]
	Product Height	0.6 in [1.5 cm]
	Product Length	3.9 in [10 cm]
	Product Width	3.1 in [80 mm]
	Weight of Product	3.4 oz [96 g]
Packaging Information	Package Height	1.3 in [32 mm]
	Package Length	6.5 in [16.5 cm]
	Package Width	5.2 in [13.1 cm]
	Shipping (Package) Weight	6.9 oz [195 g]
What's in the Box	Included in Package	1 - M.2 SATA enclosure
		1 - USB-C to Micro-B cable - 18.5 inches
		1 - USB-A to Micro-B cable - 18.5 inches
		2 - housing assembly screws
		2 - sets of M.2 mounting hardware
		1 - screwdriver
		1 - quick-start guide

Product appearance and specifications are subject to change without notice.