

## M.2 SSD Enclosure for M.2 SATA SSDs - USB 3.0 (5Gbps) with UASP

**Product ID:** SM2NGFFMBU33



The SM2NGFFMBU33 external USB 3.0 to M.2 (NGFF) enclosure turns your SATA M.2 solid state drive into a portable, high speed USB 3.0 drive.

Get higher external performance by using an M.2 SSD in place of a platter drive, harnessing the full potential of your USB 3.0 computer system. The enclosure supports UASP, enabling you to achieve transfer speeds up to 70% faster than traditional USB 3.0 when used with a UASP-enabled host computer.

This slim, pocket-sized SSD enclosure has been specifically engineered for mobility. The enclosure features a lightweight yet durable design, which fits easily into your pocket or laptop bag. For further convenience, the enclosure is powered entirely using the USB host bus and requires no external power adapter.

Durable aluminum construction helps to ensure your drive won't be damaged while you're on the move. Plus, to maximize heat dissipation the enclosure features specially engineered ventilation holes which help maintain a cooler operating environment for optimal performance and a longer life span for your drive. 

For wide compatibility with all of the common M.2 solid state drives, the enclosure can mount multiple drive heights including: 2242, 2260, and 2280.

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

UASP is supported in Windows 8, Mac OSX (10.8 or above), and Linux. In testing UASP performs with a 70% faster read speed and 40% faster write speed over traditional USB 3.0 at peak performance.



At the same peak in testing UASP also shows an 80% reduction in required processor resources.



Testing results were obtained using an Intel Ivy Bridge system, a UASP enabled StarTech.com Enclosure, and a SATA III solid state drive.

## Certifications, Reports and Compatibility

### Applications

- Re-purpose an M.2 SATA SSD as a USB 3.0 external drive
- Carry with your laptop for a highly portable external storage solution
- Transfer files to or from your external drive faster, by using a high performance SATA M.2 SSD as your external drive

### Features

- Boost external performance by leveraging the speed of your SATA M.2 SSD in a UASP-supported USB 3.0 enclosure
- Maximize portability with a small footprint, lightweight design and USB-powered performance
- Broad compatibility with support for the most common SATA M.2 SSDs (30mm, 42mm, 60mm, 80mm)
- Not compatible with M.2 NVMe or AHCI PCI-Express SSDs
- Compatible with USB 3.0/2.0/1.1 (5 Gbps / 480 Mbps / 1.5 Mbps)
- Compatible with SATA revision I/II/III (1.5 / 3.0 / 6.0 Gbps)
- Aluminum housing with ventilation holes for added heat dissipation

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#### Hardware

Warranty	2 Years
Interface	USB 3.0
Bus Type	USB 3.0
Number of Drives	1
Compatible Drive Types	M.2 (SATA, B-Key, NGFF) M.2 (SATA, B+M-Key, NGFF)
Drive Installation	Fixed

Chipset ID ASMedia - ASM1153E

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**Performance**

Maximum Data Transfer Rate	5 Gbps
Type and Rate	USB 3.0 - 5 Gbit/s
UASP Support	Yes
TRIM Support	No
4Kn Support	Yes
Type and Rate	SATA III (6 Gbps)
General Specifications	Not compatible with M.2 NVMe or AHCI PCI-Express SSDs

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**Connector(s)**

Drive Connectors	M.2 (SATA, B-Key, NGFF)
Host Connectors	USB 3.0 Micro-B (10 pin, SuperSpeed)

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**Software**

OS Compatibility	OS independent; No software or drivers required
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**Special Notes / Requirements**

Note	Windows 7 and earlier Windows versions do not support TRIM with USB to SATA devices.
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**Power**

Power Source	USB-Powered
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**Environmental**

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

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**Physical Characteristics**

Color	Black
Material	Aluminum



Product Length	3.9 in [100 mm]
Product Width	1.4 in [35 mm]
Product Height	0.6 in [15 mm]
Weight of Product	1.8 oz [50 g]

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**Packaging Information**

Package Length	5.2 in [13.1 cm]
Package Width	6.4 in [16.3 cm]
Package Height	1.2 in [31 mm]
Shipping (Package) Weight	4.4 oz [125 g]

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**What's in the Box**

Included in Package	USB 3.0 to M.2 NGFF SSD Enclosure
	USB 3.0 Cable
	SSD screw kit
	Mini screw driver
	Instruction manual

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***\*Product appearance and specifications are subject to change without notice.***

