StarTech.com
Hard-to-find made easy®

M.2 SATA external SSD enclosure – USB 3.0 with UASP

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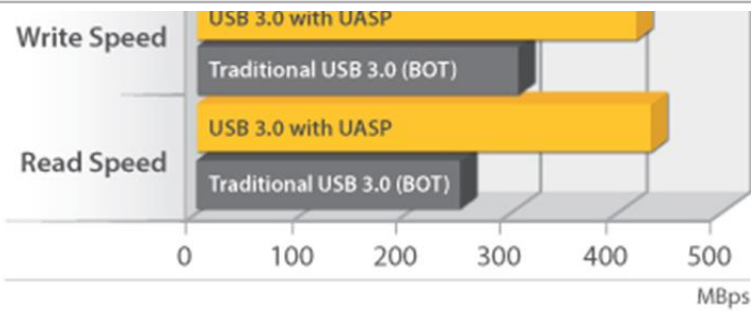
For wide compatibility with all of the common M.2 solid state drives, the enclosure can mount multiple drive heights including: 2242, 2260, and 2280.

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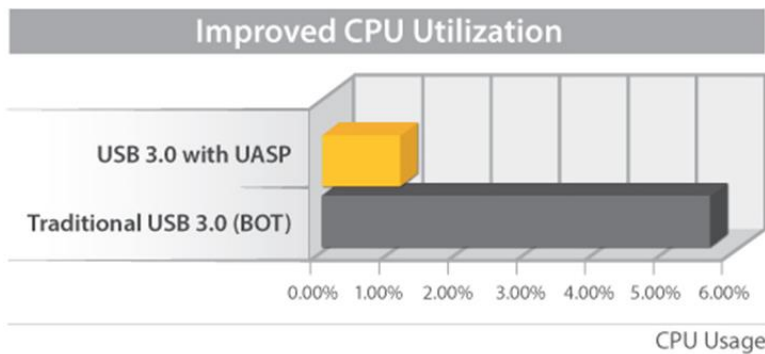
Improved Performance with UASP

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.

Faster Transfer Speeds

Write Speed
USB 3.0 with UASP
Traditional USB 3.0 (BOT)

Read Speed
USB 3.0 with UASP
Traditional USB 3.0 (BOT)

0   100   200   300   400   500

MBps

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

Improved CPU Utilization

USB 3.0 with UASP

Traditional USB 3.0 (BOT)

0.00% 1.00% 2.00% 3.00% 4.00% 5.00% 6.00%

CPU Usage

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

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
- Broad compatibility with support for the most common SATA M.2 SSDs (30mm, 42mm, 60mm, 80mm)
- Maximize portability with a small footprint, lightweight design and USB-powered performance
- 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

Technical Specifications

Warranty	2 Years
Bus Type	USB 3.0
Chipset ID	Asmedia - ASM1153
Compatible Drive Types (Type and Rate)	M.2 (NGFF; B Key)
Drive Installation	Fixed
Interface	USB 3.0
Number of Drives	1
Drive Connectors	1 - M.2 (NGFF; B Key) Receptacle
Host Connectors	1 - USB 3.0 Micro-B (10 pin; SuperSpeed) Female
General Specifications	Not compatible with PCI-Express M.2 SSDs
Maximum Data Transfer Rate	5 Gbps
Type and Rate	USB 3.0 - 5 Gbit/s
Type and Rate	SATA III (6 Gbps)
UASP Support	Yes
Color	Black
Enclosure Type	Aluminum
Product Height	15 mm [0.6 in]
Product Length	100 mm [3.9 in]
Product Weight	68 g [2.4 oz]
Product Width	35 mm [1.4 in]
Power Source	USB-Powered
Humidity	5% to 95% RH
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-10°C to 85°C (14°F to 185°F)
Shipping (Package) Weight	0.1 kg [0.3 lb]
Included in Package	1 - USB 3.0 to M.2 NGFF SSD Enclosure
Included in Package	1 - USB 3.0 Cable
Included in Package	1 - SSD screw kit
Included in Package	1 - Mini screw driver
Included in Package	1 - Instruction manual

Certifications, Reports and Compatibility

CE

RoHS Compliant
Available

FC