

## M.2 SSD Enclosure for M.2 SATA SSDs - USB 3.1 (10Gbps) with USB-C Cable - TAA

**Product ID:** SM21BMU31C3



This compact M.2 SATA SSD enclosure lets you add highly portable data storage to any laptop or computer with a USB-C port - such as MacBook, Chromebook Pixel, Dell XPS laptops, and many others. It turns your SATA M.2 drive into a high-speed storage solution over a USB 3.1 Gen 2 connection, at up to 10Gbps throughput.

This slim, pocket-sized enclosure for M.2 NGFF SATA SSDs has been specially designed for mobility, with a small form factor design that fits easily into your laptop bag. Its lightweight yet durable aluminum housing helps to ensure your drive won't be damaged while you're on the move.

Ventilation holes help to dissipate heat and help ensure an optimum operating temperature.

Leverage the speed of your M.2 NGFF SATA drive with this external enclosure. It delivers USB 3.1 Gen 2 data transfer speeds up to 10Gbps as well as UASP support, so you can achieve higher transfer speeds when you connect it to a UASP-enabled host computer.

The enclosure works with tablets, laptops and desktop computers and is compatible with hosts equipped with Thunderbolt 3 USB-C ports.

The enclosure is compatible with all of the common M.2 SATA SSDs, and enables you to mount multiple drive lengths, including: 30mm (2230), 42mm (2242), 60mm (2260), and 80mm (2280).

The SM21BMU31C3 is backed by a 2-year StarTech.com warranty and free lifetime technical support.

### Certifications, Reports and Compatibility





## Applications

- Mobile professionals can use their M.2 SATA SSD to gain high-speed data access for their USB-C enabled laptop or computer
- Repurpose an M.2 SATA SSD as a USB 3.1 Gen 2 external drive
- Transfer files faster by using a high-performance SATA M.2 SSD as your external drive

## Features

- Leverage your SATA M.2 SSD to add fast external storage to your USB-C enabled host (USB-C cable included)
- Supports USB 3.1 Gen 2 (10Gbps)
- Compatible with Thunderbolt 3 USB-C port
- Solid aluminum housing with ventilation for optimum heat dissipation
- Broad compatibility with support for the most common M.2 SATA SSDs (30mm, 42mm, 60mm, 80mm)
- Not compatible with M.2 NVMe or AHCI PCI-Express SSDs
- Supports SATA I/II/III (1.5, 3, 6Gbps)

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### Hardware

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Warranty               | 2 Years                                              |
| Interface              | USB 3.2 Gen 2                                        |
| Bus Type               | USB 3.2 Gen 2                                        |
| Number of Drives       | 1                                                    |
| Compatible Drive Types | M.2 (SATA, B-Key, NGFF)<br>M.2 (SATA, B+M-Key, NGFF) |
| Drive Installation     | Fixed                                                |
| Chipset ID             | Realtek - RTS9201VB                                  |

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### Performance

|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| Maximum Data Transfer Rate | 10 Gbps                                               |
| Type and Rate              | USB 3.2 Gen 2 - 10 Gbit/s                             |
| UASP Support               | Yes                                                   |
| TRIM Support               | Yes                                                   |
| 4Kn Support                | Yes                                                   |
| Type and Rate              | SATA III (6 Gbps)                                     |
| General Specifications     | Not compatible with M.2 NVMe or AHCI PCI-Express SSDs |
| MTBF                       | 1,000,000 hours                                       |

#### Connector(s)

|                  |                                                       |
|------------------|-------------------------------------------------------|
| Drive Connectors | 1 - M.2 (SATA, B-Key, NGFF)                           |
| Host Connectors  | 1 - USB 3.2 USB Type Micro-B (10 pin, Gen 2, 10 Gbps) |

#### 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 | 1 - Power & Activity |
|----------------|----------------------|

#### Power

|                |             |
|----------------|-------------|
| Power Source   | USB-Powered |
| Input Voltage  | 5V DC       |
| Output Voltage | 5 DC        |

#### Environmental

|                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Operating Temperature | 0C to 40C (32F to 104F)                                           |
| Storage Temperature   | -10C to 65C (14F to 149F)                                         |
| Humidity              | Operation Humidity: 10% ~ 90% RH<br>Storage Humidity: 5% ~ 95% RH |

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**Physical Characteristics**

|                   |                 |
|-------------------|-----------------|
| Color             | Black & Silver  |
| Material          | Aluminum        |
| Max Drive Height  | 3.1 in [80 mm]  |
| Product Length    | 3.9 in [9.9 cm] |
| Product Width     | 1.7 in [4.2 cm] |
| Product Height    | 0.5 in [1.3 cm] |
| Weight of Product | 2.2 oz [61.0 g] |

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**Packaging Information**

|                           |                  |
|---------------------------|------------------|
| Package Quantity          | 1                |
| Package Length            | 6.2 in [15.8 cm] |
| Package Width             | 5.1 in [13.0 cm] |
| Package Height            | 1.3 in [3.4 cm]  |
| Shipping (Package) Weight | 4.9 oz [140.0 g] |

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**What's in the Box**

|                     |                                          |
|---------------------|------------------------------------------|
| Included in Package | 1 - M.2 NGFF SATA Enclosure - USB 3.1    |
|                     | 1 - USB-C to Micro B cable - 18.5 inches |
|                     | 1 - M.2 screw kit                        |
|                     | 1 - screwdriver                          |
|                     | 1 - quick install guide                  |

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