

## USB-C/USB-A to M.2 NVMe and 2.5in/3.5in SATA Adapter, 10Gbps, Tool-Free External SSD Hard Drive Reader, B+M/M-Key

**Product ID:** USB31CSAT3M2E

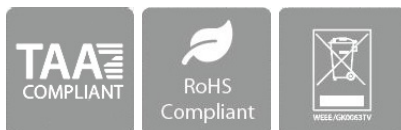


Access and manage M.2 NVMe and 2.5 in/3.5 in SATA SSDs/HDDs through a single USB-C or USB-A 10Gbps connection. The 2-in-1 NVMe and SATA adapter enables simultaneous read and write access for fast data transfer, recovery, and upgrades. This hard drive reader is a versatile solution for IT professionals performing backups, disk imaging, or maintenance on M.2 NVMe and legacy SATA drives.

Connect the M.2 NVMe and SATA SSD Adapter directly to laptop or workstation using the integrated USB-C cable with USB-A adapter. The open-top M.2 slot maintains airflow for consistent performance during sustained workloads. The NVMe/SATA Adapter supports up to 700 MB/s write speeds over M.2 NVMe, and up to 6 Gbps over SATA III when connected to legacy 2.5in or 3.5in SATA drives. Please note that M.2 SATA drives are not supported.

Lightweight and portable, the adapter fits easily into any IT toolkit or workspace. It runs on USB bus power for a single 2.5 in SATA or M.2 NVMe drive, and includes a universal power adapter required for 3.5 in SATA drives, for connecting two drives at once, or when a single drive draws more power than USB can provide. Ideal for IT technicians and end users needing portable, tool-free drive access.

### Certifications, Reports and Compatibility



### Applications

### Features

- **Versatile 2-in-1 Drive Adapter**: Enable fast, tool-free access to an M.2 NVMe drive and a 2.5in/3.5in SATA SSD/HDD, or transfer data simultaneously through a single USB-C or USB-A 10Gbps host; Toaster-style M.2 slot optimizes airflow for peak performance
- **Ideal for Diagnostics and Troubleshooting**: Quickly troubleshoot M.2 NVMe and 2.5/3.5in SATA drives to monitor drive health, test performance, or recover data; Use as a portable multi-interface drive dock for compatibility testing, disk imaging, or storage expansion
- **Portable and Self-Powered**: Compact, lightweight design that fits into any IT toolkit; Runs on USB bus power when connected to one 2.5in SATA or M.2 NVMe drive, and includes a power adapter for dual-drive operation or high-draw SATA/NVMe drives
- **Driverless Setup and Broad Compatibility**: Integrated USB-C cable with USB-A adapter ensures universal host access and driverless operation on Windows, macOS, and Linux; Supports PCIe Gen4 M.2 NVMe and SATA III up to 6 Gbps; Note: M.2 SATA is not supported
- **The IT Pro's Choice**: Our external drive adapters are lab-tested for enterprise-grade performance, thermal efficiency, and OS compatibility; Ideal for secure backups and drive upgrades, and backed by free lifetime 24/5 multi-lingual technical assistance

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## Hardware

|                           |                         |
|---------------------------|-------------------------|
| Warranty                  | 2 Years                 |
| Fan(s)                    | No                      |
| Interface                 | USB 3.2 Gen 2 (10 Gbps) |
| Bus Type                  | USB-C                   |
|                           | USB-A                   |
| Number of Drives          | 2                       |
| Drive Size                | M.2, 2.5in, 3.5in       |
| Compatible Drive Types    | M.2 NVMe                |
|                           | 2.5in / 3.5in SATA      |
| Supported Drive Height(s) | Full Size               |
|                           | 2230                    |
|                           | 2242                    |
|                           | 2260                    |
|                           | 2280                    |
| Chipset ID                | JMS581DC                |

## 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)         |
| Max Drive Capacity         | 2                         |
| Hot Swap Capability        | Yes                       |

## Connector(s)

|                  |  |
|------------------|--|
| Drive Connectors | 1 - SATA Data & Power Combo (7+15 pin)<br>1 - M.2 (B+M-Key, PCIe)                            |
| Host Connectors  | 1 - USB 3.2 USB Type C (10 pin, Gen 2, 10 Gbps)<br>1 - USB 3.2 Type-A (9 pin, Gen 2, 10Gbps) |

## Software

|                  |                                     |
|------------------|-------------------------------------|
| OS Compatibility | OS Independent; No drivers required |
|------------------|-------------------------------------|

## Special Notes / Requirements

|      |   |
|------|---|
| Note | <p>Always eject the drive(s) safely through the Operating System before disconnecting. Avoid hot-swapping drives to prevent data loss or device damage.</p> <p>You can use most M.2 NVMe or 2.5in drives without connecting the universal power adapter, as the USB connection provides sufficient bus power. The included universal power adapter is required when using a 3.5in SATA drive, connecting two drives at the same time, or if your M.2 NVMe drive requires more power than the USB connection can provide.</p> <p>M.2 SATA drives are not supported</p> |
|------|---|

## Indicators

|                |  |
|----------------|--|
| LED Indicators | <p>1 - Power LED:</p> <p>Solid: Powered ON</p> |
|----------------|--|

2 - Drive LEDs:

Solid: Drive(s) Detected

Flashing: Read/Write Activity

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#### Power

|                |                     |
|----------------|---------------------|
| Power Source   | AC Adapter Included |
| Input Voltage  | 12V DC              |
| Input Current  | 2A                  |
| Output Voltage | 12V DC              |
| Output Current | 2A                  |
| Plug Type      | H                   |

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#### Environmental

|                       |                           |
|-----------------------|---------------------------|
| Operating Temperature | 0C to 40C (32F to 104F)   |
| Storage Temperature   | -20C to 60C (-4F to 140F) |
| Humidity              | Max 90% RH                |

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#### Physical Characteristics

|                   |                    |
|-------------------|--------------------|
| Color             | Black              |
| Material          | ABS                |
| Cable Length      | 1.0 ft [0.3 m]     |
| Product Length    | 14.2 in [360.6 mm] |
| Product Width     | 3.5 in [88.4 mm]   |
| Product Height    | 0.6 in [14.1 mm]   |
| Weight of Product | 1.8 oz [50 g]      |

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#### Packaging Information

|                |                  |
|----------------|------------------|
| Package Length | 4.8 in [12.3 cm] |
| Package Width  | 7.5 in [19.0 cm] |

|                           |                   |
|---------------------------|-------------------|
| Package Height            | 2.1 in [5.4 cm]   |
| Shipping (Package) Weight | 11.6 oz [330.0 g] |

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#### What's in the Box

|                     |   |
|---------------------|---|
| Included in Package | 1 - USB to NVMe & SATA Adapter                  |
|                     | 1 - Universal Power Supply - NA/JP, EU, UK, ANZ |
|                     | 1 - Quick-Start Guide                           |

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#### Warranty Information

|          |         |
|----------|---------|
| Warranty | 2 Years |
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***\*Product appearance and specifications are subject to change without notice.***