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	JMicron - 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)
		1 - M.2 (B+M-Key, PCIe)
	Host Connectors	1 - USB 3.2 USB Type C (10 pin, Gen 2, 10 Gbps)
		1 - USB 3.2 Type-A (9 pin, Gen 2, 10Gbps)
Software		
	OS Compatibility	OS Independent; No drivers required
Special Notes / Requirements		
	Note	Always eject the drive(s) safely through the Operating System before disconnecting. Avoid hot-swapping drives to prevent data loss or device damage.
		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.
		M.2 SATA drives are not supported
Indicators		
	LED Indicators	1 - Power LED:
		Solid: Powered ON

		2 - Drive LEDs: Solid:Drive(s) Detected Flashing:Read/Write Activity
Power		
	Power Source	AC Adapter Included
	Input Voltage	12V DC
	Input Current	2A
	Output Voltage	12V DC
	Output Current	2A
	Plug Type	H
Environmental		
	Operating Temperature	0C to 40C (32F to 104F)
	Storage Temperature	-20C to 60C (-4F to 140F)
	Humidity	Max 90% RH
Physical Characteristics		
	Color	Black
	Material	ABS
	Cable Length	1.0 ft [0.3 m]
	Product Length	16.1 in [410 mm]
	Product Width	3.5 in [88.4 mm]
	Product Height	0.6 in [14.1 mm]
	Weight of Product	1.9 oz [55 g]
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]

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

Warranty Information		
	Warranty	2 Years

Product appearance and specifications are subject to change without notice.