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USB4 M.2 NVMe Enclosure, 40Gbps, External USB-C/Thunderbolt NVMe SSD Enclosure, Aluminum Heatsink Case, B+M/M-Key

Product ID: 1USB4-NVME-ENCLOSURE



Turn your PCIe M.2 NVMe SSD into a fast and highly portable USB-C external storage solution. This NVMe enclosure supports USB4 (40Gbps), delivering read/write speeds up to 3,800 MB/s. Ideal for power users handling large media files, managing data across devices, or performing OS imaging, data recovery, and disk management.

Built for current and next-gen storage, this USB4 enclosure connects M-Key or B+M Key M.2 NVMe SSDs (2230/2242/2260/2280) to USB4, Thunderbolt 5/4/3, or USB 3.2 hosts. It supports PCIe Gen 4x4 NVMe drives and offers native, driverless compatibility with Windows, macOS, and Linux. Seamless interoperability with USB-C and Thunderbolt systems makes it ideal for fast backups and high-volume data transfers.

The anodized aluminum housing features a heatsink-style cover design with a high-efficiency thermal pad to enable passive cooling during sustained workloads. The fanless construction allows for silent operation while maintaining consistent transfer rates during intensive tasks such as disk imaging or data capture.

The USB4 NVMe Enclosure's compact footprint fits comfortably in a technician's toolkit or laptop bag. The rugged aluminum housing not only helps with heat dissipation but also protects the SSD from physical damage during transport or deployment in demanding environments.

Certifications, Reports and Compatibility

Operating System Independent

Applications

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• Access your NVMe drive externally with ultra-fast transfer speeds

• Heat-dissipating design is ideal for extended data-migration related tasks

• Designed for professional high-speed data workflows where fast, portable NVMe access is required

• Provide an instant, high-performance storage solution for data recovery, backup or repair. No driver installation required

Features

• Next-Gen Performance: Transform your M.2 NVMe SSD into an ultra-fast external storage solution, delivering up to 40Gbps via a USB4 or Thunderbolt host; Ideal for IT technicians and professionals requiring fast, dependable SSD access

• Stays Cool Under Load: Rugged aluminum heatsink enclosure with a high-performance thermal pad for effective heat dissipation; Maintains consistent SSD speeds under sustained load, supporting extended data transfers without active cooling

• Broad USB-C Compatibility: Connect the NVMe enclosure with the included USB-C cable to a USB4, Thunderbolt 5/4/3, or USB 10Gbps host for seamless, driverless operation across macOS, Windows and Linux systems with USB-C ports

• Broad Drive Compatibility: Easily access, transfer, or back up data using 2230/2242/2260/2280 M.2 NVMe PCIe Gen 4 SSDs, incl. Samsung 960/970/980/990/9100, Kingston, Seagate, Western Digital, Crucial & Intel; NOTE: M.2 SATA drives not supported

• The IT Pro's Choice: Our hard drive enclosures are lab-tested for enterprise-grade performance, thermal efficiency, and OS compatibility; Ideal for secure backups and drive upgrades; Backed by free lifetime 24/5 multi-lingual technical assistance

General		
	UPC	065030907248
	Warranty	2 Years
Power		
	Power Source	Bus Powered
Physical & Environmental		
	Color	Black
	Material	Aluminum
	Cable Length	12.0 in [30.5 cm]
	Product Length	4.9 in [12.5 cm]

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Product Width	2.6 in [65 mm]
Product Height	1.1 in [28.8 mm]
Weight of Product	12.0 oz [340 g]
Operating Temperature	0C to 40C (32F to 104F)
Storage Temperature	-20C to 70C (-4F to 158F)
Humidity	Up to 90% RH

Performance

Maximum Data Transfer Rate	40Gbps
Type and Rate	USB4 (40Gbps)
UASP Support	Yes
TRIM Support	Yes
S.M.A.R.T. Support	Yes
4Kn Support	Yes
SATA Type and Rate	NVMe (PCIe Gen 4)
RAID	No
MTBF	112000 Hours

Hardware

Fans Included? Yes/No	No
Interface	USB4 (40Gbps)
Bus Type	USB4 (40Gbps)
Number of Drives	1
Drive Size	22 mm - M.2 NVMe
Compatible Drive Types	M.2 (PCIe, NVMe, M-Key, NGFF)
Supported Drive Height(s)	2230
	2242

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		2260
		2280
	Chipset ID	ASMedia - ASM2464PD
	LED Indicators	1 - Solid LED: Drive detected
		Quick-Flashing LED: Read/Write Activity ,

Packaging & In-the-Box		
	Included in Package	1 - M.2 NVMe Enclosure
		1 - Thermal Pad (Pre-installed)
		1 - USB4 Cable
		1 - Philips Head Screwdriver
		1 - Product Documentation
	Package Width	4.5 in [11.4 cm]
	Package Depth	7.5 in [19 cm]
	Package Height	1.4 in [35 mm]
	Shipping (Package) Weight	15.2 oz [430 g]

Connector(s)		
	Host Connector 1 (Quantity)	1
	Host Connector 1	USB-C (40Gbps, 100W PD Input)
	Connector 1 (Quantity)	1
	Connector 1	M.2 M-Key (PCIe, AHCI / NVMe)

Product appearance and specifications are subject to change without notice.