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

Applications

• 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 SSDs, including Samsung 960/970/980/990/9100, Kingston, Seagate, Western Digital (WD), Crucial, and 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

---

Hardware

Warranty	2 Years
Fan(s)	No
Interface	M.2 PCIe (x4 PCIe)
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
		2260
		2280
	Chipset ID	ASM246PD
Performance		
	Maximum Data Transfer Rate	40Gbps
	Type and Rate	USB4 40Gbps (Thunderbolt 4/3, USB 3.2)
		Thunderbolt 5 - 40 Gbit/s
	UASP Support	Yes
	TRIM Support	Yes
	4Kn Support	Yes
	S.M.A.R.T. Support	Yes
	Shock Protection	Yes
	Hardware Raid Supported	No
	MTBF	112000 Hours
Connector(s)		
	Drive Connectors	1 - M.2 (PCIe, M-Key, AHCI/NVMe, NGFF)
	Host Connectors	1 - USB 3.2 Type-C (24 pin, Gen 2, 10Gbps)
Software		
	OS Compatibility	OS independent; No software or drivers required
Indicators		
	LED Indicators	1 - Solid LED: Drive detected
		Quick-Flashing LED: Read/Write Activity ,
Power		
	Power Source	Bus Powered
Environmental		
	Operating Temperature	0C to 40C (32F to 104F)

	Storage Temperature	-20C to 70C (-4F to 158F)
	Humidity	Up to 90% RH
Physical Characteristics		
	Color	Black
	Material	Aluminum
	Cable Length	1.0 ft [0.3 m]
	Product Length	4.9 in [124.8 mm]
	Product Width	2.6 in [65 mm]
	Product Height	1.1 in [28.8 mm]
	Weight of Product	12.0 oz [340 g]
Packaging Information		
	Package Length	4.5 in [11.4 cm]
	Package Width	7.5 in [19.0 cm]
	Package Height	1.4 in [3.5 cm]
	Shipping (Package) Weight	15.2 oz [430.0 g]
What's in the Box		
	Included in Package	1 - M.2 NVMe Enclosure
		1 - Thermal Pad (Pre-installed)
		1 - USB4 Cable
		1 - Philips Head Screwdriver
		1 - Quick-Start Guide
Warranty Information		
	Warranty	2 Years

Product appearance and specifications are subject to change without notice.