

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**

- <b>Next-Gen Performance</b>: 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
- <b>Stays Cool Under Load</b>: 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
- <b>Broad USB-C Compatibility</b>: 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
- <b>Broad Drive Compatibility</b>: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
- <b>The IT Pro's Choice</b>: 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 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

2260

2280

Chipset ID ASMedia - ASM2464PD

**Performance** 

Maximum Data Transfer

40Gbps

Type and Rate

Rate

USB4 (40Gbps)

**UASP Support** 

Yes

TRIM Support

Yes

4Kn Support

Yes

S.M.A.R.T. Support

Yes

Type and Rate

NVMe (PCIe Gen 4)

Hardware Raid Supported No

MTBF

112000 Hours

Connector(s)

**Drive Connectors** 

1 - M.2 (PCIe, M-Key, NVMe, NGFF)

**Host Connectors** 

1 - USB4 (40Gbps)

**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 - Product Documentation
Warranty Information		
	Warranty	2 Years

<sup>\*</sup>Product appearance and specifications are subject to change without notice.