

## 4 Bay Thunderbolt 3 NVMe Enclosure, For M.2 NVMe SSD Drives, 1x DisplayPort Video/ 2x TB3 Downstream Ports, 40Gbps, 72W Power Supply, External Hard Drive Enclosure - TAA

**Product ID:** M2E4BTB3



This Thunderbolt 3 to 4x M.2 PCIe SSD enclosure enables you to turn four M-Key PCI-Express based M.2 NVMe or AHCI solid state drives (SSDs) into a high-performance external storage solution.

The SSD enclosure is self-powered with an included 72W EPS power supply that powers the enclosure, the connected drives, and provides up to 15W of power to any downstream Thunderbolt 3 devices. A 2.3 ft. (70 cm) Thunderbolt 3 Certified host cable is also included, to connect the enclosure to your computer.

The enclosure is compatible with 80mm M.2 PCIe based (M-Key) single/double-sided SSDs. Create an external storage solution that utilizes the high-performance bandwidth available to your Thunderbolt 3 port, providing combined data transfer speeds of up to 40Gbps for up to four drives. The vented metal enclosure features thermal pads and a cooling fan to ensure your SSDs are operating at optimal temperatures.

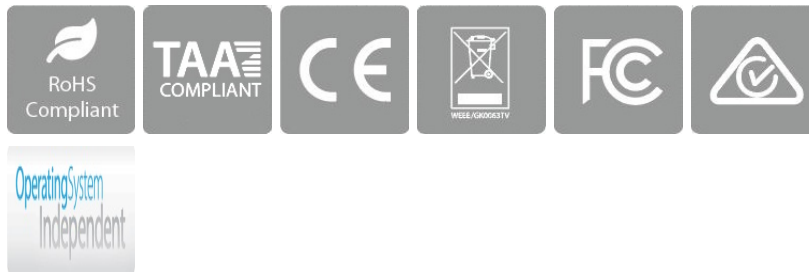
A single 8 Gbps PCIe lane is dedicated to each connected drive. This ensures consistent read/write performance across the entire enclosure, regardless of individual drive activity. The enclosure also supports software RAID with storage management systems like Storage Spaces (Microsoft), RAID Assistant (macOS), or mdraid/mdadm (Linux). The support for software RAID, combined with exceptional drive performance, makes this the ideal enclosure for creative professionals working with large files such as high-resolution graphics, video, and CAD files.

This enclosure is Thunderbolt Certified to ensure an optimal user experience and compatibility when connected to a Thunderbolt 3 host device, such as a MacBook Pro 16, 13, Air, Lenovo ThinkPad X1 Carbon / T Series, Dell XPS / Latitude / Precision or HP EliteBook. The external drive enclosure is also forward compatible with Thunderbolt 4 devices (at Thunderbolt 3 performance).

The enclosure features a DisplayPort output port, enabling you to connect a DisplayPort monitor to your computer through the Thunderbolt 3 enclosure, with resolutions up to 4K 60Hz. The enclosure also features a downstream Thunderbolt 3 port for daisy chaining an additional TB3 device or connect an additional TB3 compatible display (up to 5K 60Hz).

M2E4BTB3 is backed by a 2-year StarTech.com warranty, with free lifetime North American based multilingual technical support.

## Certifications, Reports and Compatibility



## Applications

- Build a software RAID array with a storage management system like Storage Spaces (Microsoft), RAID Assistant (macOS), or mdraid/mdadm (Linux)
- Ideal for creative professionals working with large files such as high-resolution graphics, video, and CAD files

## Features

- **HIGH PERFORMANCE M.2 STORAGE VIA THUNDERBOLT 3** : Turn up to 4 PCIe 80mm M.2 SSDs (M-Key) into an external TB3 storage solution; Data transfer speeds up to 40Gbps; Downstream TB3 port; DisplayPort video output; Vented metal enclosure w/thermal pads & fan
- **MAXIMIZE DRIVE SPEED**: Connect up to four M.2 PCIe NVMe and/or AHCI drives with an 8Gbps PCIe lane dedicated to each SSD; Supports software RAID with storage management systems like Storage Spaces (Microsoft) , RAID Assistant (macOS), mdraid/mdadm (Linux)
- **FLEXIBLE PORT OPTIONS**: DisplayPort output to connect to a display with resolutions up to 4K 60Hz; Downstream TB3 port to daisy chain additional TB3 devices or a compatible TB3 display (up to 5K 60Hz); Connected devices share bandwidth with connected SSDs
- **THUNDERBOLT 3 CERTIFIED**: Works w/TB3 & TB4 host devices like MacBook Pro 16/13/Air (Dual displays on Apple M1/M2/M3 Pro/Max Processors; Only single display on M1/M2/M3), Lenovo ThinkPad X1 Carbon/T Series, Dell XPS/Latitude/Precision & HP EliteBook
- **POWER ADAPTER & THUNDERBOLT 3 CABLE INCLUDED**: Self powered with an included 72W EPS power supply that powers the enclosure, the connected drives and provides 15W to TB3 port; Includes 2.3 ft (70cm) TB3 certified passive cable; NOT COMPATIBLE WITH SATA SSD

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### Hardware

|          |           |
|----------|-----------|
| Warranty | 2 Years   |
| Fan(s)   | Yes       |
| Fans     | 1 - 40 mm |

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Interface                 | Thunderbolt 3                                                  |
| Bus Type                  | Thunderbolt 3                                                  |
| Number of Drives          | 4                                                              |
| Drive Size                | 80 mm - M.2 PCIe                                               |
| Compatible Drive Types    | M.2 (PCIe, NVMe, M-Key, NGFF)<br>M.2 (PCIe, AHCI, M-Key, NGFF) |
| Drive Installation        | Fixed                                                          |
| Supported Drive Height(s) | 2280                                                           |
| Fan Bearing Type          | Sleeve Bearing                                                 |
| Chipset ID                | Intel - JHL6540<br>TI - TPS65983B                              |

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## Performance

|                            |                             |
|----------------------------|-----------------------------|
| Noise Level                | 34.5dB @ 50cm               |
| Maximum Data Transfer Rate | 40 Gbps                     |
| Type and Rate              | Thunderbolt 3 - 40 Gbit/s   |
| TRIM Support               | Yes                         |
| 4Kn Support                | Yes                         |
| S.M.A.R.T. Support         | Yes                         |
| Type and Rate              | NVMe (PCIe x1 Gen 3; 8Gbps) |
| MTBF                       | 50,000 Hours                |

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## Connector(s)

|                    |                                                                            |
|--------------------|----------------------------------------------------------------------------|
| Drive Connectors   | 4 - M.2 (PCIe, M-Key, AHCI/NVMe, NGFF)                                     |
| Host Connectors    | 1 - Thunderbolt 3 USB-C (24-pin) (40Gbps)                                  |
| Other Interface(s) | 1 - Thunderbolt 3 USB-C (24-pin) (40Gbps)<br>1 - 20 pin DisplayPort Female |

|                                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Software</b>                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                     | OS Compatibility | OS Independent; No Software or Drivers Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Special Notes / Requirements</b> |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                     | Note             | <p>Displays Supported: 2</p> <p>Maximum Digital Resolutions:</p> <p>Thunderbolt 3 - 5120 x 2880 at 60Hz</p> <p>DisplayPort - 4086x2160 at 60Hz</p> <ul style="list-style-type: none"> <li>- This M.2 enclosure does not provide full power delivery but will provide 15W of power, resulting in a slow charge to some laptops, such as MacBook Pro. When the dock is connected to your host laptop, a charging icon may appear on the screen. This is only sufficient to charge your laptop in sleep state, and charging will require an extended time period.</li> <li>- 5K support can only be achieved using a Thunderbolt 3 5K monitor. DisplayPort 5K monitors will not work at 5K with this M.2 enclosure</li> <li>- A 4K-capable display is required to achieve 4K resolution (4K is also known as 4K x 2K).</li> <li>- Certain monitors may be limited to 4K at 30Hz when connecting through DisplayPort. These monitors include the following models: Dell P2715Q, Viewsonic VX2475Smhl-4K, Philips 288P6LJEB, LG 31MU97C-B, and Asus PB287Q (these models must be set to 4K at 30Hz).</li> <li>- When connecting a display to one of the Thunderbolt 3 USB-C ports, a USB-C video adapter may be required, depending on the input of your display.</li> <li>- Secondary Thunderbolt 3 port can also be used to connect USB 3.2 Gen 2 (10 Gbps) USB-Type C devices, such as USB 3.2 Gen 2 Hubs. Backwards compatible with USB 3.2 Gen 1 (5 Gbps), and USB 2.0.</li> <li>- Not Compatible with SATA Based M.2 Drives.</li> </ul> |
| <b>Indicators</b>                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                     | LED Indicators   | <p>1 - Power (Illuminates when powered on)</p> <p>4 - Drive Activity (Flashes when drive activity is detected)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Power</b>                        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                     | Power Source     | AC Adapter Included                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                     | Input Voltage    | 110V-240V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                              |          |
|------------------------------|----------|
| Input Current                | 2 A      |
| Output Voltage               | 12V DC   |
| Output Current               | 6 A      |
| Center Tip Polarity          | Positive |
| Plug Type                    | N        |
| Power Consumption (In Watts) | 72       |

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#### Environmental

|                       |                           |
|-----------------------|---------------------------|
| Operating Temperature | 5C to 45C (41F to 113F)   |
| Storage Temperature   | -20C to 50C (-4F to 122F) |
| Humidity              | 20% ~ 80% RH              |

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#### Physical Characteristics

|                   |                  |
|-------------------|------------------|
| Color             | Black            |
| Material          | Metal            |
| Product Length    | 7.7 in [19.5 cm] |
| Product Width     | 5.1 in [13.0 cm] |
| Product Height    | 0.8 in [2.0 cm]  |
| Weight of Product | 1.4 lb [0.6 kg]  |

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#### Packaging Information

|                           |                   |
|---------------------------|-------------------|
| Package Quantity          | 1                 |
| Package Length            | 11.0 in [27.9 cm] |
| Package Width             | 7.2 in [18.3 cm]  |
| Package Height            | 5.0 in [12.8 cm]  |
| Shipping (Package) Weight | 3.9 lb [1.8 kg]   |

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#### What's in the Box

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Included in Package | 1 - 4 Bay NVMe TB3 SSD Enclosure                         |
|                     | 1 - 2.3 ft (70 cm) Certified Thunderbolt 3 Passive Cable |
|                     | 1 - Manual                                               |
|                     | 1 - Universal Power Adapter (NA/JP, UK, EU, ANZ)         |

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**Warranty  
Information**

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