Maintenance Information

Tips: Please read and follow all safety guidelines provided to prevent potential hazards and ensure safe operation of the product.

- Avoid water exposure and use a dry cloth for cleaning the product.
- Follow instructions, ensure proper ventilation, and protect from electric shock by handling with dry hands; unplug during thunderstorms or extended disuse.
- Keep away from fire, heat sources, and dispose of the battery responsibly.
- Do not disassemble or repair the product without permission.

Warranty Information

Our product comes with a one-year warranty from the shipping date, covering defects in materials and workmanship. We will repair or replace the product under normal use conditions, unless it's been altered or misused. Non-warranty repairs will be charged at current rates and are guaranteed for six months after return.

TESmart

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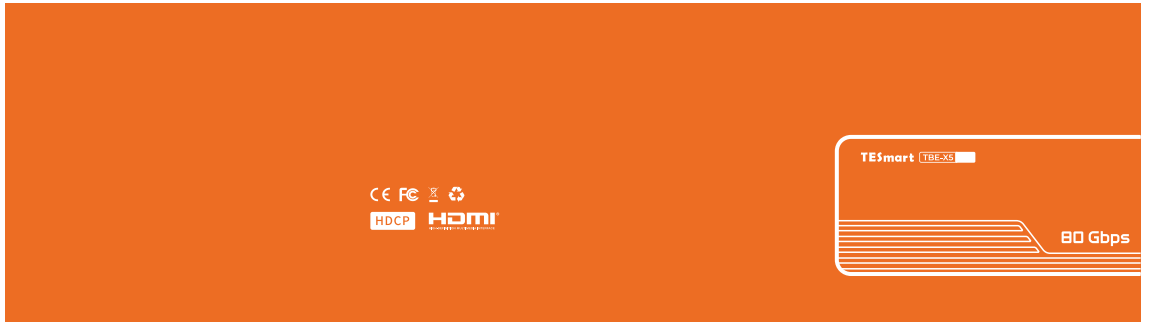

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User Guide

TBE-X5Pro
TBE-X5Max

80Gbps SSD Enclosure

Features

- Utilizes the Intel JHL9480 (B2) controller chip. When connected to a Thunderbolt 5 host, sequential read/write speeds may reach up to 7000MB/s in ideal laboratory conditions .
- Maintains backward compatibility with USB4 and Thunderbolt 4 protocols and interfaces.
- X5Max utilizes the AMS2364 controller, maintains full backward compatibility with USB 3.2/3.1/3.0 protocols and interfaces, while supporting USB 3.2 Gen 2×2 bandwidth (20 Gbps).
- Features an integrated cooling fan and silicone thermal pad to enhance heat dissipation during operation.
- Functions as an NVMe enclosure, supporting M.2 NVMe SSDs with capacities of up to 8TB.
- Compatible with PCIe 5.0 SSD.

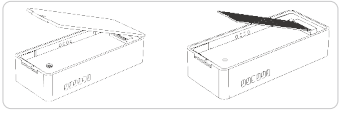
***Note**: Actual achievable speeds will vary and depend on factors including the host device interface, cable quality, the performance of the installed SSD, and the system environment.*

Packing List

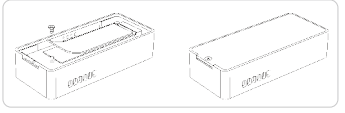
1 * 80Gbps SSD Enclosure
1 * 80 Gbps USB-C Cable
1 * User Manual
2 * Silicone Thermal Pad
1 * Screwdriver

Operation Method

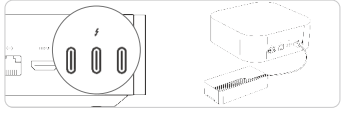
Step 1: Open the top cover of the enclosure. Ensure your NVMe M.2 SSD is properly inserted into the enclosure's slot.



Step 2: Apply the silicone thermal pad, tighten all screws, then close the top cover of the enclosure.



Step 3: Verify that your computer supports Thunderbolt 4/5. Use the included Thunderbolt cable to connect one end to the computer's Thunderbolt port and the other end to the enclosure's USB-C port.



Warning: Always safely eject the Thunderbolt drive before disconnecting to prevent data loss.

On Windows: Click the "**Safely Remove Hardware and Eject Media**" icon in the system tray. Select your Thunderbolt device and wait for the confirmation message before disconnecting.

On macOS: Click the eject icon in the menu bar or drag the drive to Trash. Wait for confirmation before disconnecting.

Important Note

- For optimal performance, the drive interface should support PCIe 4.0 x4 NVMe 1.4 or above.
- TBE-X5Pro model does not support protocols below USB 4.0.
- This product is compatible only with Windows, Linux, and macOS. It requires a 2280-sized M.2 NVMeSSD (M-Key or B&M Key interface) and is not compatible with SATA-based M.2 SSDs (B-Key or B&M Key).
- Due to Thunderbolt 5's PCIe specification being limited to PCIe 4.0 ×4, the actual transfer rate for PCIe 5.0 SSDs will be constrained to the maximum bandwidth of PCIe 4.0 ×4.

Minimum System Requirements	
Computer Port	OS
PC with Thunderbolt 5	Windows 11
PC with Thunderbolt 4	Windows 10 or 11
Mac with Thunderbolt 4 or Thunderbolt/USB 4	macOS 14.4
Mac with Thunderbolt 3	macOS 15.0

Specification

Technical	
Supported Protocols	Thunderbolt 5/4/3/USB4 v2/USB4 (X5Pro) Thunderbolt 5/4/3/USB4 v2/USB4/3.2/3.1/3.0 (X5Max)
Supported Drive Type	M.2 NVMe PCIe SSD (Supports 2280form factor only)
Capacity	Support up to 8TB
Data Rate	Maximum 80 Gbps *Maximum speeds depend on the host interface, cable, installed SSD performance, and system environment.
Power Supply	Bus Power
Drive Interface	For optimal performance, the drive interface should support PCIe 4.0 x4 NVMe 1.4 or above.

General	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	10% to 90%, non-condensing
Enclosure Material	Full - aluminum CNC
Cooling Solution	Silicone & Active cooling fan
Dimensions (W x D x H)	107 *46.5 *23.5(mm)
Product Weight	150g

Compatibility List

SSD	Mac mini M4 Pro		Razer Blade 18 2024	
	READ	WRITE	READ	WRITE
Samsung 9100pro	6933	6581	6226	5936
Samsung 990pro	7011	6401	6033	5810
Lexar 1090pro	6481	6108	6173	5651
WD_Black SN850X	6895	5532	6213	4897
WD_Black SN7100	7022	5752	6213	5251
WD_Black SN770	5220	4724	5154	4899
Kingston FURY	6215	6008	5779	5569

Note: 1. For more compatibility information, please refer to our official website.
2. The specific speed will vary depending on the device and SSD.