

ORICO ACOM2

ORICO ACOM2 40Gbps M.2 NVMe SSD Enclosure User Manual

Model: ACOM2 | Brand: ORICO

1. INTRODUCTION

The ORICO ACOM2 40Gbps M.2 NVMe SSD Enclosure is designed for high-speed data transfer and efficient heat dissipation. It supports M-Key NVMe SSDs up to 8TB capacity and is compatible with Thunderbolt 3/4 and various USB standards. This manual provides instructions for setup, operation, maintenance, and troubleshooting.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 40Gbps NVMe Enclosure (1 unit)
- USB C to A/C Cable (1 unit)
- Thermal Pad and Cooling Vest (1 set)
- SSD Fastener (2 units)
- User Manual (1 unit)

3. PRODUCT FEATURES

- **Ultra-Fast Data Transfer:** Equipped with a stable smart chip and Thunderbolt 3/4 compatible Type-C interface, achieving up to 40Gbps data transfer speeds. Read speeds up to 3500MB/s, write

speeds up to 2800MB/s.

- **Efficient Cooling System:** Features an aluminum alloy body with a 360° stripe pattern, built-in fan, cooling silicone pad, and metal vest to prevent overheating, speed drops, and data loss.
- **Tool-Free Installation:** Simple push-button mechanism for easy SSD installation without screws or screwdrivers.
- **Large Capacity Support:** Supports M.2 NVMe SSDs up to 8TB, suitable for demanding tasks like 4K/8K video projects.
- **Wide Compatibility:** Supports M-Key 2230/2242/2260/2280 SSDs and is compatible with Thunderbolt 3/4, USB4/3.2/3.1/3.0 ports. Works with Windows, macOS, Linux, and Android.

4. COMPATIBILITY

The ORICO ACOM2 enclosure is designed for broad compatibility:

- **SSD Type:** Supports M-Key NVMe SSDs (PCIe protocol) in 2230, 2242, 2260, and 2280 form factors.
- **Incompatible SSDs:** Not compatible with SATA AHCI M.2 SSDs, mSATA SSDs, or B-Key/B+M Key SATA SSDs. SSDs with pre-installed heatsinks may not fit.
- **Host Interface:** Compatible with Thunderbolt 3, Thunderbolt 4, USB4, USB 3.2, USB 3.1, USB 3.0, and USB 2.0 ports.
- **Operating Systems:** Fully compatible with Windows, macOS, Linux, and Android.
- **Specific SSD Notes:** Not recommended for use with Crucial-P3 Plus, WD Black SN750, and Samsung 970 EVO Plus.
- **Thunderbolt Port Notes:** Not compatible with Intel Thunderbolt ports prior to 12th Gen (except 12th Gen). Compatible with AMD and Apple Thunderbolt ports.

Compatible with M.2 M-Key NVMe SSD

Compatible SSD key



X SATA:B-KEY & B+M Key

*SSD with heatsink or SATA SSD is not supported

Compatible SSD form factors

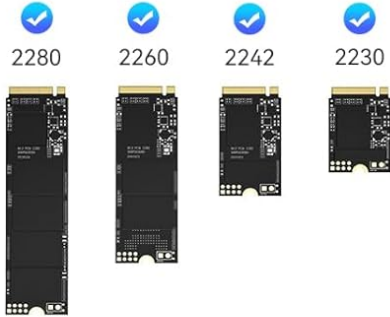


Image: Compatible M.2 M-Key NVMe SSD types and form factors.

Plug and Play & Wide Compatibility



Image: Overview of device and operating system compatibility.

5. SETUP INSTRUCTIONS

Follow these steps to install your M.2 NVMe SSD into the enclosure:

1. **Open the Enclosure:** Gently slide the bottom cover and pull the internal tray out of the aluminum shell.
2. **Prepare the SSD:** Attach the thermal pad to the top surface of your M.2 NVMe SSD. Then, place the cooling vest over the thermal pad, ensuring good contact.
3. **Insert the SSD:** Align your M.2 NVMe SSD with the slot on the circuit board. Insert it firmly and

secure it with the provided SSD fastener.

4. **Close the Enclosure:** Slide the internal tray back into the aluminum shell until it clicks securely into place.
5. **Connect to Device:** Use the included USB-C to C or USB-C to A cable to connect the enclosure to your computer or compatible device.

Tool Less & Ease installation



Image: Step-by-step guide for tool-free SSD installation.

Your browser does not support the video tag.

Video: A short demonstration of the ORICO 40Gbps M.2 NVMe Enclosure's cooling features and tool-free installation process, including inserting an SSD and connecting the device.

6. OPERATING INSTRUCTIONS

Once your SSD is installed and the enclosure is connected to your device, it operates as a plug-and-play external storage solution.

- **Initial Use:** For new SSDs, you may need to initialize and format the drive through your operating system's disk management utility before it appears as a usable drive.
- **Data Transfer:** Drag and drop files to and from the enclosure as you would with any external drive. The 40Gbps interface ensures rapid transfers for large files.
- **Safe Removal:** Always safely eject the drive from your operating system before disconnecting the cable to prevent data corruption.

Super Fast Data Transfer

No waiting, no lagging



Image: The enclosure connected to a laptop, demonstrating high-speed data transfer.

7. MAINTENANCE

To ensure the longevity and optimal performance of your ORICO ACOM2 SSD Enclosure:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid liquid cleaners or solvents.
- **Airflow:** Ensure the ventilation holes are not obstructed to allow for proper heat dissipation by the built-in fan.
- **Temperature:** Operate the enclosure in a well-ventilated area and avoid extreme temperatures.
- **Handling:** Handle the enclosure with care to prevent physical damage.

Upgraded Built-in Cooling Fan

with aluminum alloy case to achieve superb heat dissipation



Notes: The Fan is designed for 7000 RPM, so it is not completely silent. The actual measurement is roughly 40-60 decibels.

Image: Internal cooling fan and heat dissipation performance graph.

8. TROUBLESHOOTING

If you encounter issues with your ORICO ACOM2 SSD Enclosure, refer to the following common solutions:

- **Enclosure Not Detected:**
 - Ensure the USB cable is securely connected to both the enclosure and your device.
 - Try a different USB port or cable.
 - Verify that the SSD is correctly installed and secured within the enclosure.
 - For new SSDs, check Disk Management (Windows) or Disk Utility (macOS) to initialize and format the drive.
- **Slow Transfer Speeds:**
 - Ensure your device's port supports 40Gbps (Thunderbolt 3/4 or USB4) for maximum performance. Connecting to a slower USB port (e.g., USB 3.0) will result in lower speeds.
 - Confirm your SSD is an NVMe M-Key type and not a slower SATA M.2 SSD.
 - Check the compatibility notes regarding specific SSD models (e.g., Crucial-P3 Plus, WD Black SN750, Samsung 970 EVO Plus) and Intel Thunderbolt ports prior to 12th Gen.
 - Ensure the thermal pad and cooling vest are properly installed to prevent thermal throttling.
- **Overheating:**
 - Ensure the enclosure is placed in an area with good airflow and not covered.
 - Verify the thermal pad and cooling vest are correctly applied to the SSD.
 - The built-in fan operates to dissipate heat; ensure its vents are clear.
- **Fan Noise:** The built-in fan operates at 7000 RPM and may produce a sound level of roughly 40-60 decibels. This is normal operation.



Image: ORICO 40Gbps M.2 NVMe Enclosure Test Report for various SSDs.

9. SPECIFICATIONS

Feature	Detail
Model	ACOM2
Hardware Interface	USB Type C (Thunderbolt 3/4, USB4/3.2/3.1/3.0 compatible)
Data Transfer Rate	Up to 40 Gigabits Per Second
Compatible SSDs	M-Key NVMe SSDs (2230/2242/2260/2280)
Max Capacity	8 TB
Enclosure Material	Aluminum Alloy
Cooling System	Built-in Fan, Cooling Vest, Silicone Pad
Product Dimensions	5.9"L x 2.2"W x 0.87"H (150mm x 56mm x 22mm)
Compatible Devices	Desktop, Laptop, Smartphone, Tablet
Operating Systems	Windows, macOS, Linux, Android

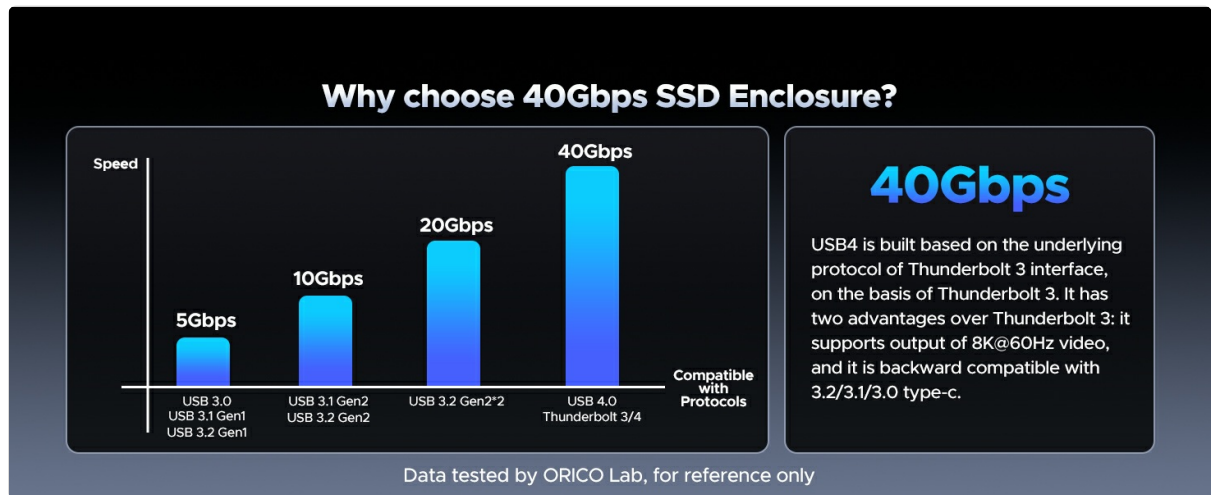


Image: Comparison of data transfer speeds across different USB and Thunderbolt standards.

10. WARRANTY

The ORICO ACOM2 40Gbps M.2 NVMe SSD Enclosure comes with a **2-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

11. SUPPORT

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact ORICO customer support through the official ORICO website or your retailer's support channels. Please have your product model (ACOM2) and proof of purchase ready when contacting support.

