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› ORICO M.2 NVMe SATA SSD Enclosure Adapter User Manual

ORICO Black

ORICO M.2 NVMe SATA SSD Enclosure Adapter User Manual

Model: PWDM2-BK Black

INTRODUCTION

This manual provides comprehensive instructions for the ORICO M.2 NVMe SATA SSD Enclosure Adapter. This versatile enclosure allows you to convert your M.2 NVMe or SATA SSD into a portable external storage device, offering high-speed data transfer and robust protection for your data.



The ORICO M.2 NVMe SATA SSD Enclosure Adapter, shown with its included USB-C to USB-C cable and heat dissipation components.

WHAT'S IN THE BOX

Please verify that all items listed below are included in your package:

- 1 x M.2 SSD Enclosure
- 1 x USB C to C cable
- 1 x Thermal Pad
- 2 x Rubber Fastener
- 1 x Cooling Vest (Heatsink)
- 1 x Instruction Book

Packing list



Contents of the ORICO M.2 SSD Enclosure package.

SETUP AND INSTALLATION (TOOL-FREE)

The ORICO M.2 NVMe SATA SSD Enclosure features a tool-free design for easy installation. Follow these steps to install your M.2 SSD:

1. **Slide the button cover to the left and pull the shell out.** This will expose the internal tray.
2. **Stick the thermal pad and the cooling vest on the SSD.** Ensure the thermal pad is placed between the SSD and the cooling vest for optimal heat dissipation.
3. **Stick the silicone plug to the SSD and insert the SSD in.** Align the SSD with the M.2 slot and gently push it in until it seats firmly. Secure it with the provided silicone plug.

4. Place the shell back and slide the button cover back. Ensure the enclosure is securely closed.

Easy to install Tool-free

1



Slide the button cover to the left and pull the shell out.

2



Stick the thermal pad and the cooling vest on the SSD.

3



Stick the silicone plug to the SSD and insert the SSD in.

4



Place the shell back and slide the button cover back.

Step-by-step guide for tool-free SSD installation into the enclosure.



The ORICO M.2 SSD Enclosure connected to a laptop via USB-C.

COMPATIBILITY

The ORICO M.2 Enclosure is designed for broad compatibility with various M.2 SSD types and sizes:

- **Supported SSD Types:** M.2 NVMe M Key / B+M Key and M.2 NGFF SATA B+M Key SSD (based on SATA protocol).
- **Supported SSD Sizes:** 2230, 2242, 2260, 2280.
- **Maximum Capacity:** Up to 4TB.
- **Operating System Compatibility:** Windows, Mac OS, Linux, Android.

Compatible NVMe and M.2 SATA SSD

SATA



NVME



Visual guide to compatible M.2 NVMe and SATA SSD key types.



Illustration of supported M.2 SSD sizes (2230, 2242, 2260, 2280).

OPERATING INSTRUCTIONS

Once your M.2 SSD is installed, connect the enclosure to your device using the provided USB-C to C cable. The enclosure is plug-and-play, requiring no additional drivers for most operating systems.

High-Speed Data Transfer

The ORICO M.2 Enclosure supports high-speed data transfer protocols:

- **NVMe SSD:** Up to 10Gbps transmission rate, with read/write speeds around 1000MB/s.
- **M.2 SATA SSD:** Up to 5Gbps transmission rate, with read/write speeds around 450MB/s.

USB3.2 Super Speed

NVMe M.2 SSD

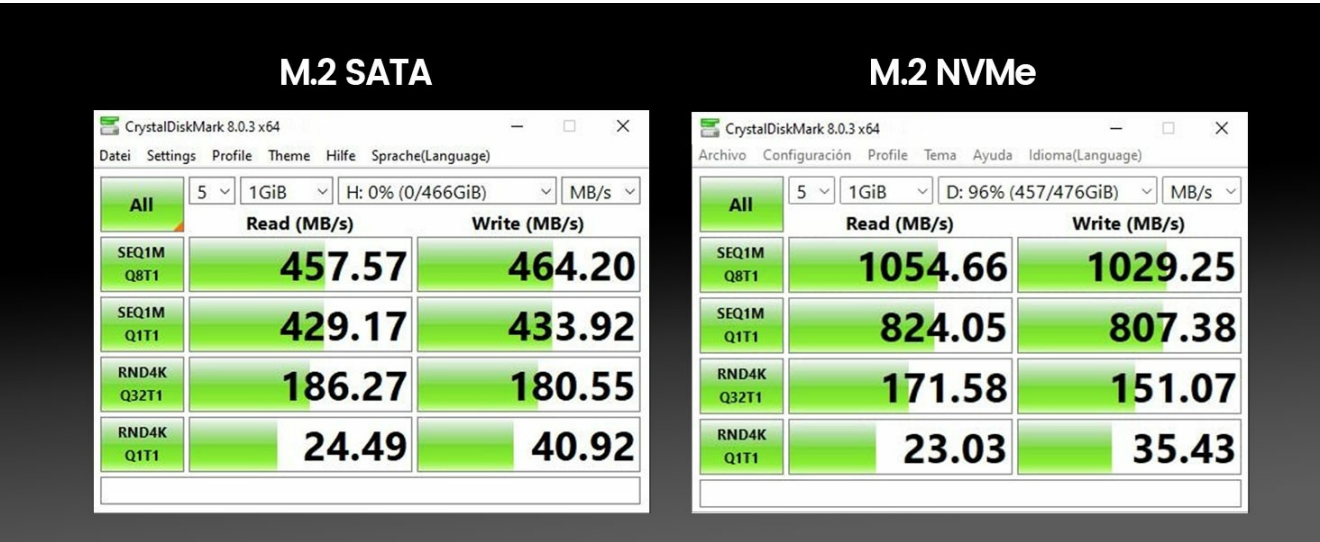
Transfer Speed up to **1054** MB/s

SATA M.2 SSD

Transfer Speed up to **450** MB/s



Demonstration of the high-speed data transfer capabilities of the enclosure with NVMe and SATA SSDs.



Comparison of read/write speeds between M.2 SATA and M.2 NVMe SSDs in the enclosure.

Efficient Heat Dissipation

The enclosure is equipped with a professional heatsink (cooling vest) and thermal silicone to effectively dissipate heat, ensuring stable performance even during prolonged use.

Multiple Heat Dissipation

Aluminum body,thermal pad



Temperature test

Enclosure
Temperature of others

Enclosure
Temperature of this product

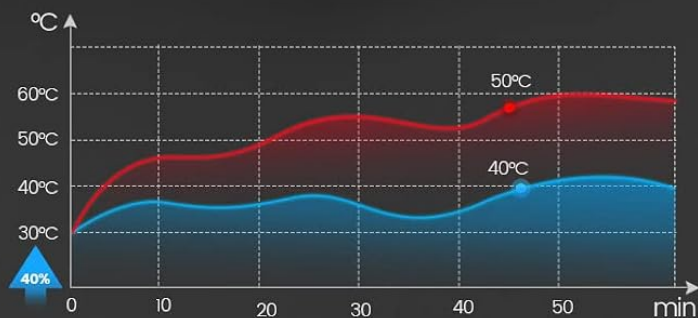


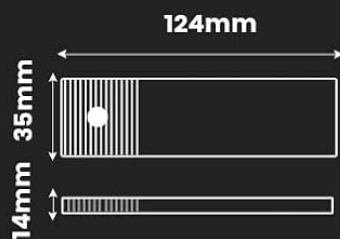
Diagram illustrating the multiple heat dissipation layers: aluminum body, thermal pad, and cooling vest.



Graph showing temperature performance comparison, highlighting the improved heat dissipation of this product.

Portability

The compact and durable design makes this enclosure highly portable, ideal for on-the-go data access and backup.



Compact & Portable

SSD is firmly fixed and it is not easy to slip out.

A person holding the compact ORICO SSD enclosure alongside a laptop sleeve, demonstrating its portability.

TROUBLESHOOTING

- **Enclosure not recognized:** Ensure the SSD is properly seated in the enclosure. Try connecting to a different USB port or a different computer. Verify that the USB cable is not damaged.
- **Slow transfer speeds:** Ensure your device's USB port supports USB 3.2 Gen 2 (10Gbps) for NVMe SSDs or USB 3.0 (5Gbps) for SATA SSDs. Older USB ports will result in slower speeds. Check if your SSD is properly formatted.

- **SSD not appearing in 'My Computer'/'This PC':**For new SSDs, you may need to initialize and format the drive in Disk Management (Windows) or Disk Utility (Mac OS) before it appears.
- **Overheating:** Ensure the thermal pad and cooling vest are correctly installed on the SSD. Avoid placing the enclosure in direct sunlight or enclosed spaces during heavy use.

SPECIFICATIONS

Feature	Detail
Brand	ORICO
Model Number	Black (PWDM2-BK)
Compatible Devices	Laptop, Desktop, Tablet, Phone
Hardware Interface	PCI, USB Type C
Data Transfer Rate	10 Gigabits Per Second (NVMe), 5 Gigabits Per Second (SATA)
Memory Storage Capacity	Up to 4 TB
Supported SSD Sizes	2230, 2242, 2260, 2280
Material	Aluminum, Silicone
Product Dimensions	1.38 x 0.55 x 4.88 inches
Item Weight	0.352 ounces (0.01 Kilograms)
First Available Date	October 13, 2022

WARRANTY AND SUPPORT

For warranty information and technical support, please visit the official ORICO website or contact their customer service. You can also find more products and information at the [ORICO Store on Amazon](#).

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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