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> ORICO 9-in-1 USB C Hub with M.2 NVMe SSD Enclosure 10Gbps, Tool Free Hub Docking Station Adapter with Built-in Fan, Gigabit Ethernet, 100W PD, SD/TF, Type C & USB A for Laptop MacBook Mac mini -M2P7

ORICO M2P7

ORICO 9-in-1 USB C Hub with M.2 NVMe SSD Enclosure

Model: M2P7

INTRODUCTION

The ORICO 9-in-1 USB C Hub with M.2 NVMe SSD Enclosure is a versatile docking station designed to expand the connectivity and storage capabilities of your laptop, MacBook, or desktop. It integrates multiple essential ports and an M.2 NVMe SSD enclosure, providing high-speed data transfer, network connectivity, power delivery, and additional storage in a compact form factor.

PRODUCT FEATURES

- **9-in-1 Multi-Port Design:** Includes RJ45 Gigabit Ethernet, 100W PD-IN, two 5Gbps USB-A, one 10Gbps USB-A, one 10Gbps USB-C, SD card slot, TF card slot, and an M.2 SSD slot.
- **M.2 NVMe SSD Enclosure:** Compatible with M.2 NVMe 2230/2242/2260/2280 SSDs, supporting up to 8TB storage expansion.
- **High-Speed Data Transfer:** USB-C and USB-A data ports offer speeds up to 10Gbps.
- **Efficient Heat Dissipation:** Features a built-in fan and an M.2 heatsink for optimal cooling performance, preventing speed reduction due to overheating.
- **Gigabit Ethernet:** Provides stable and fast internet access up to 1000 Mbps.
- **100W Power Delivery:** Supports fast charging for connected devices, allowing simultaneous work and charging.

9-in-1 USB-C Hub

With M.2 NVMe SSD Enclosure



*PS: Mobile phone/tablet needs to support OTG function

Figure 1: Overview of the 9-in-1 USB-C Hub with detailed port labels and internal SSD enclosure with cooling fan.

PACKAGE CONTENTS

Please verify that all items are present in the package:

- ORICO USB C Dock (9-in-1 Hub with M.2 NVMe SSD Enclosure)
- USB C to C Cable
- User Manual (this document)

- M.2 Heatsink and thermal pad (pre-installed or included for SSD)

SPECIFICATIONS

Brand	ORICO
Model	M2P7
Dimensions	6.61 x 4.37 x 1.73 inches
Item Weight	10.8 ounces
Color	Black
Hardware Interface	PCI Express x4 (for M.2 NVMe SSD)
Compatible Devices	Tablets, Laptops (MacBook, Mac mini, Dell, HP, Surface, etc.)
Total USB Ports	4 (2x USB-A 5Gbps, 1x USB-A 10Gbps, 1x USB-C 10Gbps)
Ethernet Speed	10/100/1000 Mbps (Gigabit)
Power Delivery	Up to 100W (PD-IN port)
Card Reader	SD and TF (Micro SD) 3.0

SETUP AND INSTALLATION

Installing an M.2 NVMe SSD

The ORICO hub features a tool-free design for M.2 NVMe SSD installation. Follow these steps:

1. **Remove the magnetic top cover:** Gently lift the top cover of the docking station. It is held in place by magnets.
2. **Prepare the SSD:** If included, stick the silicone thermal pad onto your M.2 NVMe SSD and place the heatsink cover on top of the thermal pad. This aids in heat dissipation.
3. **Insert the M.2 SSD:** Carefully insert your M.2 NVMe SSD into the designated slot within the enclosure. Ensure it is fully seated. The enclosure supports 2230, 2242, 2260, and 2280 form factors.
4. **Secure the SSD:** Use the provided retention mechanism (e.g., rubber stopper or screw) to secure the SSD in place.
5. **Replace the magnetic cover:** Align the magnetic top cover and place it back onto the docking station until it snaps into place.



Figure 2: Step-by-step guide for M.2 NVMe SSD installation.

Support M.2 NVMe SSD

Expandable up to 8TB



Figure 3: Supported M.2 NVMe SSD form factors and M Key protocol.

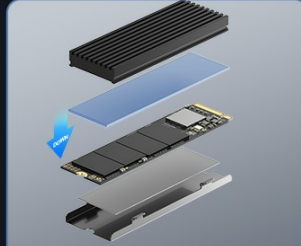
Connecting the Hub to Your Device

Connect the ORICO 9-in-1 USB C Hub to your host device (laptop, MacBook, etc.) using the provided USB-C to C cable. Ensure your device's USB-C port supports the necessary functions for full hub functionality.

Installation Steps



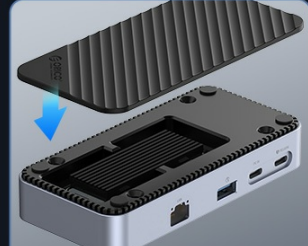
1. Remove the magnetic top cover.



2. Stick the silicone thermal pad on the SSD and place the heat sink cover on it.



3. Insert the M.2 SSD into the slot.



4. Place the magnetic cover back on the docking station.

Figure 4: Understanding USB-C Port Types and Compatibility. Confirm your laptop's USB-C port supports DisplayPort Alternate Mode for full functionality.

OPERATING INSTRUCTIONS

Data Transfer

Utilize the USB-A and USB-C data ports for connecting external drives, flash drives, or other peripherals. The 10Gbps ports (one USB-A, one USB-C) provide high-speed data transfer for large files.



Figure 5: High-speed data transfer via 10Gbps USB 3.2 Gen 2 ports.

Network Connectivity

Connect an Ethernet cable to the RJ45 Gigabit Ethernet port for a stable and fast wired internet connection, ideal for streaming, gaming, or large downloads.

Gigabit Connected

Boost Laptop Internet Speed



Ethernet 1Gbps

1000Mbps



WiFi

300Mbps

1000Mbps



Figure 6: Gigabit Ethernet connectivity for enhanced network speed.

Power Delivery (PD)

Connect a 100W PD charger to the PD-IN port on the hub. This allows you to power your laptop or other compatible devices through the hub while simultaneously using its other functions. Ensure your computer's USB-C interface supports PD charging.

Support PD 100W Fast Charging



***Note:** When M.2 NVMe SSD is working, your computer needs to connect the PD100W interface to get powered.

Figure 7: 100W Power Delivery for charging your host device.

SD/TF Card Reader

Insert SD or TF (Micro SD) cards into the respective slots to access data from memory cards, useful for cameras, drones, or other devices.

MAINTENANCE

To ensure optimal performance and longevity of your ORICO 9-in-1 USB C Hub, consider the following maintenance tips:

- **Keep Clean:** Regularly wipe the exterior with a soft, dry cloth to remove dust. Avoid liquid cleaners.
- **Ventilation:** Ensure the hub's ventilation areas are not obstructed to allow proper airflow for the built-in fan.
- **Heat Management:** The hub is designed with a built-in fan and heatsink to manage heat, especially when an SSD is installed and under heavy load. It is normal for the device to become warm during operation. If the fan activates, it is working as intended to cool the SSD and internal components.
- **Handle with Care:** While the magnetic top cover is convenient, handle the device carefully, especially when transporting, to prevent accidental detachment of the cover or dislodging of internal components.

Upgraded Built-in Turbo Fan & M.2 Heatsink

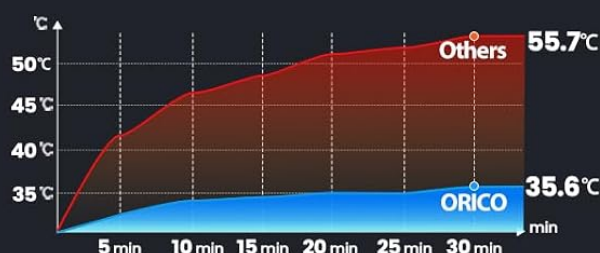
Fast cooling SSD to ensure stable and safe transmission



M.2 Heatsink



Cooling Fan



NOTE:

1. To reduce noise and energy consumption, the fan starts to work when temperature is over 50°C
2. M.2 heatsink only for single and double-sided 2280 NVMe SSD

Figure 8: Enhanced heat dissipation system with built-in fan and M.2 heatsink.

TROUBLESHOOTING

If you encounter issues with your ORICO 9-in-1 USB C Hub, please refer to the following common solutions:

- **SSD Not Recognized:**

- Ensure the M.2 NVMe SSD is correctly inserted and secured in the slot.
- For new SSDs, it may need to be initialized and formatted through your operating system's Disk Management (Windows) or Disk Utility (macOS) before it appears.
- SSDs larger than 1TB may require an external power supply connected to the PD-IN port for stable operation.

- **Slow Data Transfer Speeds:**

- Verify that your host device's USB-C port supports USB 3.2 Gen 2 (10Gbps) for maximum speed.
- Ensure you are using the provided high-quality USB-C to C cable.
- Simultaneous use of multiple high-bandwidth interfaces (e.g., SSD, multiple USB devices, Ethernet) can slightly reduce individual port speeds.
- Overheating can cause speed throttling. Ensure proper ventilation and that the heatsink and fan are functioning.

- **No Power Delivery (Charging):**

- Confirm that your laptop's USB-C port supports Power Delivery (PD). Not all USB-C ports support charging.
- Ensure you are using a PD-compatible charger (e.g., 100W) connected to the hub's PD-IN port.

- **Ethernet Connection Issues:**

- Check the Ethernet cable connection at both the hub and your router/modem.
- Ensure your device's network settings are configured correctly (e.g., DHCP enabled).
- Try updating your computer's network drivers.

- **Fan Noise:**

- The built-in fan activates when the internal temperature, particularly of the SSD, exceeds a certain threshold (e.g., 50°C) to prevent overheating. This is normal operation.
- If the fan noise is unusually loud or grinding, ensure the device is on a flat, stable surface and that no debris is obstructing the fan vents.

WARRANTY AND SUPPORT

ORICO products typically come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official ORICO website for detailed warranty terms and conditions specific to your region.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact ORICO customer service through their official website or the retailer from whom you purchased the product. Have your product model (M2P7) and purchase information ready when contacting support.

Manufacturer: SHENZHEN ORICO TECHNOLOGIES CO.,LTD

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Question

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Details

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

Submit question

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