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> ORICO MiniRaid Creator-MR10 Dual-Bay M.2 NVMe/SATA SSD Enclosure and 10-in-1 Docking Station User Manual

ORICO MR10

ORICO MiniRaid Creator-MR10 User Manual

Dual-Bay M.2 NVMe/SATA SSD Enclosure with 10-in-1 Docking Station

1. INTRODUCTION

This manual provides detailed instructions for the ORICO MiniRaid Creator-MR10, a versatile dual-bay M.2 NVMe/SATA SSD enclosure and 10-in-1 docking station. This device is designed to expand storage and connectivity for compatible systems, including Mac mini M4/M4 Pro, MacBook Pro, and other devices with USB-C connectivity. It features dual M.2 SSD slots supporting NVMe and SATA protocols, multiple RAID modes, and a comprehensive set of ports for enhanced productivity.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x MiniRaid Body
- 1 x C to C Cable 3.3Ft (100cm)
- 1 x 20V 3.25A Power Adapter
- 2 x Thermal Pad for SSD
- 1 x Rubber Fastener
- 1 x User Manual



3. PRODUCT OVERVIEW

The ORICO MiniRaid Creator-MR10 integrates a dual M.2 SSD enclosure with a 10-in-1 docking station, offering extensive connectivity and storage expansion.

Front Ports:

- **SD/TF 3.0 Card Reader:** Supports simultaneous reading at up to 104MB/s.
- **USB-C (10Gbps):** For high-speed data transfer.
- **Audio Port (3.5mm):** For headphone or speaker connection.
- **USB-A (10Gbps):** For high-speed data transfer.
- **USB-A (5Gbps):** For standard data transfer.

Back Ports & Features:

- **DC Power Interface:** Connects to the included power adapter.
- **USB-C (PD60W):** Power Delivery port for charging compatible devices.
- **RAID Key:** Switches for selecting RAID 0, RAID 1, PM (JBOD), or Clone modes.
- **HDMI (4K@60Hz):** Video output for external displays.
- **RJ45 Ethernet (1000Mbps):** Gigabit Ethernet port for wired network connection.
- **M.2 SSD Slots (x2):** Supports NVMe and SATA M.2 2230/2242/2260/2280 SSDs up to 4TB each.

10-in-1 Mac Mini Raid Dual M.2 SSD Dock

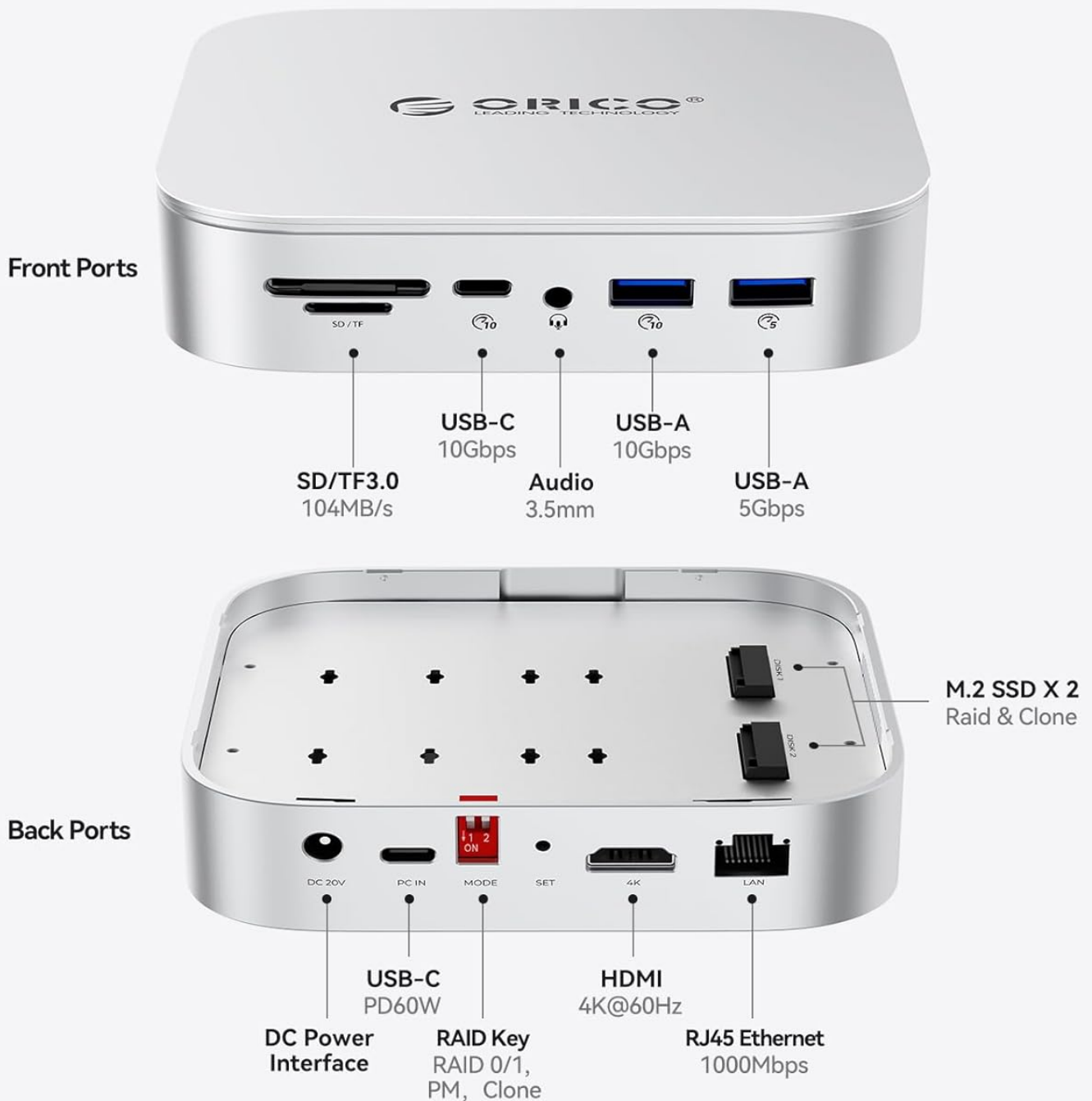


Image: Diagram illustrating the front and back ports of the ORICO MiniRaid Creator-MR10 docking station, detailing each port's function and speed.

4. SETUP AND INSTALLATION

Follow these steps to install M.2 SSDs and connect the docking station to your device.

4.1. SSD Installation (Tool-Free)

1. **Open the Top Cover:** Gently lift the snap-on top cover of the docking station to access the M.2 SSD slots.
2. **Insert SSD:** Align your M.2 NVMe or SATA SSD with the slot (Disk 1 or Disk 2) and insert it firmly.
3. **Secure SSD:** Use the provided rubber fastener to secure the SSD in place. Apply a thermal pad onto the SSD for optimal heat dissipation.
4. **Close Cover:** Replace the top cover, ensuring it snaps securely into place.

Note: Do not forcefully bend, shake, or twist the SSD during insertion or removal, as this may damage the M.2 slot or PCB board.

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Data Backup

Image: Step-by-step visual guide for tool-free M.2 SSD installation into the ORICO MiniRaid Creator-MR10, showing opening the cover, inserting the SSD, securing it, and closing the cover.

4.2. Connecting to Your Device

1. **Connect Power:** Plug the 20V 3.25A power adapter into the DC Power Interface on the back of the MiniRaid and then into a wall outlet.
2. **Connect to Host Device:** Use the provided USB-C to USB-C cable to connect the MiniRaid's USB-C port (PD60W) to your Mac mini, MacBook Pro, or other compatible host device.
3. **Connect Peripherals:** Connect any desired peripherals (monitor via HDMI, Ethernet cable, USB devices, SD/TF cards, audio devices) to the appropriate ports on the MiniRaid.

5. OPERATING MODES (RAID & CLONE)

The ORICO MiniRaid Creator-MR10 supports various storage configurations using its dual M.2 SSD slots. The mode is selected using the RAID Key switches on the back of the unit.

5.1. RAID Modes

WARNING: Please back up all data before changing the RAID mode. Changing modes will erase all data on the installed SSDs.

- **PM (JBOD - Just a Bunch Of Disks):** Each SSD operates independently. You will see two separate drives in your system. This mode offers maximum capacity and moderate safety/speed.
- **RAID 0 (Striping):** Combines both SSDs into a single logical unit, distributing data across both drives. This significantly increases read/write speeds but offers no data redundancy. If one drive fails, all data is lost. Requires

two SSDs.

- **RAID 1 (Mirroring):** Creates an exact copy of data on both SSDs. This provides high data redundancy; if one drive fails, the data is still accessible on the other. The total usable capacity is limited to the size of the smaller SSD. Requires two SSDs.



Image: Diagram showing the RAID key switch positions for PM, RAID 0, and RAID 1 modes, along with their respective capacity, safety, and speed characteristics.

5.2. Offline Cloning Function

The MiniRaid supports offline cloning, allowing you to duplicate the contents of one SSD to another without needing a computer.

1. **Install SSDs:** Insert the source SSD into Disk 1 and the target SSD into Disk 2. Ensure the target SSD's capacity is equal to or greater than the source SSD's capacity.
2. **Select Clone Mode:** Adjust the RAID Key switches to the 'Copy' position (refer to the diagram on the unit or in the manual).
3. **Start Cloning:** Press and hold the 'SET' button on the back of the unit until the indicator lights begin to flash, indicating the cloning process has started.
4. **Monitor Progress:** The indicator lights will show the cloning progress (25%, 50%, 75%, 100%).
5. **Completion:** Once all lights are solid, the cloning process is complete. Power off the unit before removing the SSDs.

Excellent Heat Dissipation



Image: Visual representation of the offline cloning process, showing Disk 1 being copied to Disk 2 with progress indicators.

6. CONNECTIVITY FEATURES

The MiniRaid Creator-MR10 offers a wide array of ports to enhance your workstation.

6.1. USB Ports

The docking station includes multiple USB ports for connecting various peripherals:

- 1 x USB-C (10Gbps)
- 1 x USB-A (10Gbps)
- 1 x USB-A (5Gbps)

These ports allow for high-speed data transfer and connection of multiple devices simultaneously.



Image: Illustration of the ORICO MiniRaid Creator-MR10 connected to a monitor and various USB devices, highlighting the multiple USB ports available.

6.2. HDMI 4K@60Hz Output

Connect an external monitor via the HDMI port to extend or mirror your display at up to 4K resolution at 60Hz.

- **Mirror Mode:** Duplicates your primary display.
- **Extend Mode:** Expands your desktop across multiple screens.

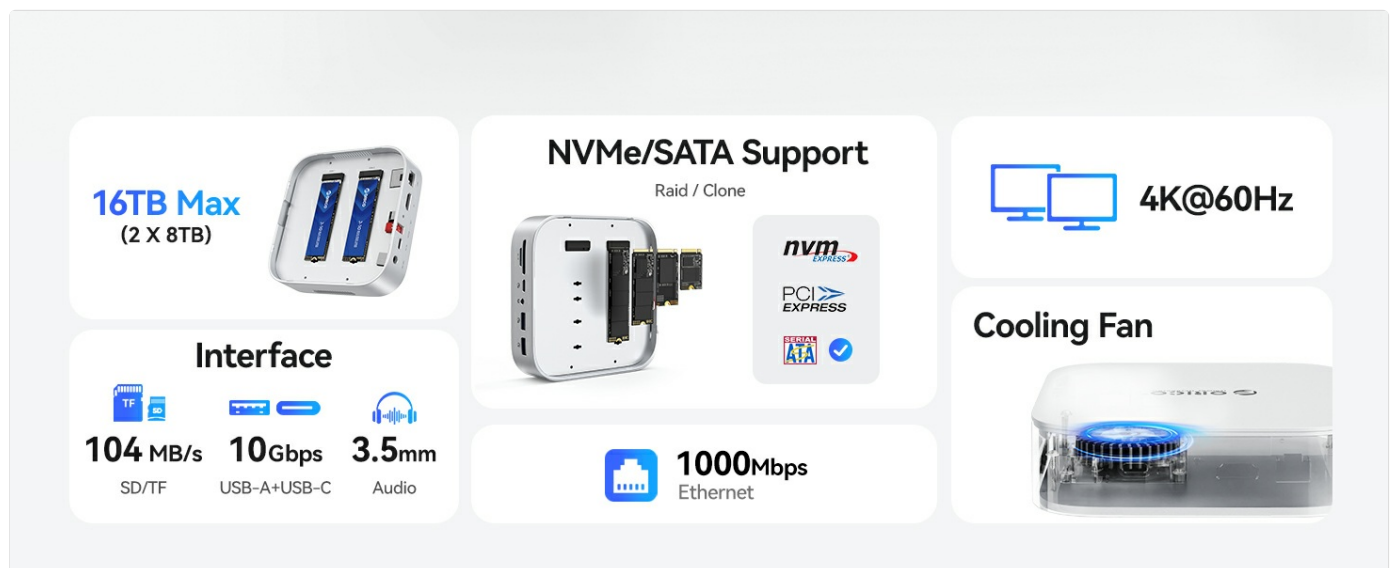


Image: Depiction of the ORICO MiniRaid Creator-MR10 connected to two external monitors, demonstrating both mirror and extend display modes at 4K 60Hz.

6.3. SD/TF Card Slot

The built-in SD/TF 3.0 card reader supports simultaneous reading of both card types at speeds up to 104MB/s, ideal for transferring photos, videos, music, and documents.

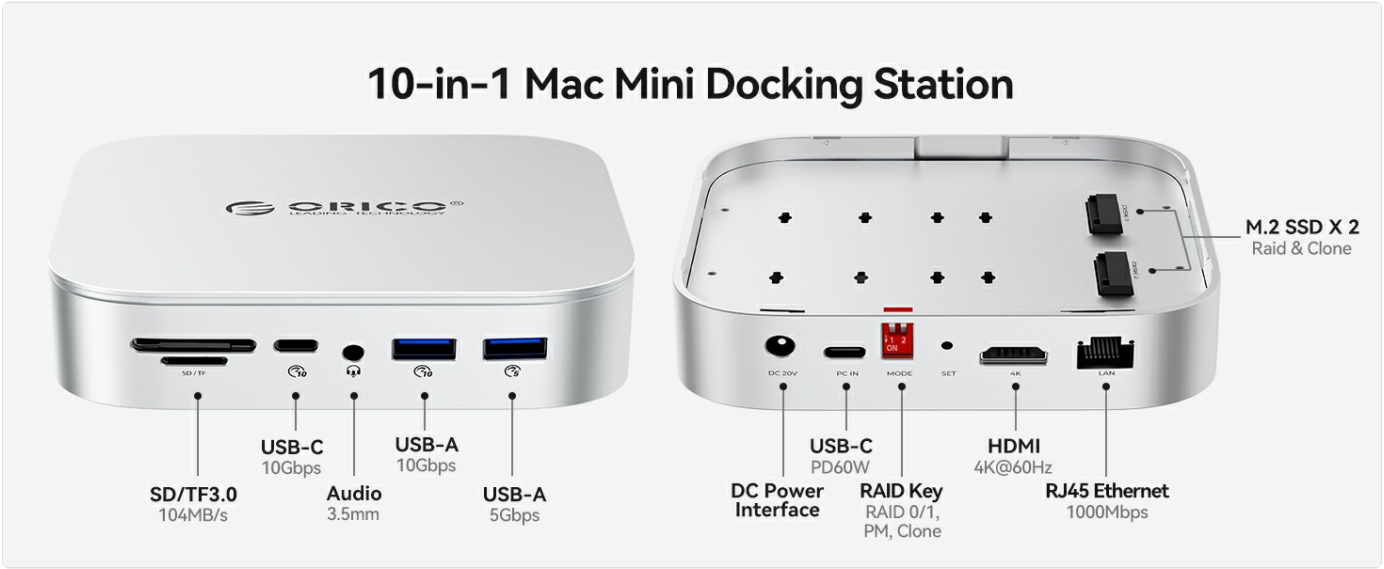


Image: A Mac mini setup with the ORICO MiniRaid Creator-MR10, showing the SD/TF card slot in use for media transfer.

6.4. RJ45 Gigabit Ethernet

The 1000Mbps RJ45 Ethernet port provides a stable and fast wired network connection, suitable for gaming, cloud storage access, and streaming.

6.5. PD60W USB-C Charging

The USB-C port with Power Delivery (PD60W) can charge compatible laptops and devices, such as a 13-inch MacBook Air up to 70% in 60 minutes.

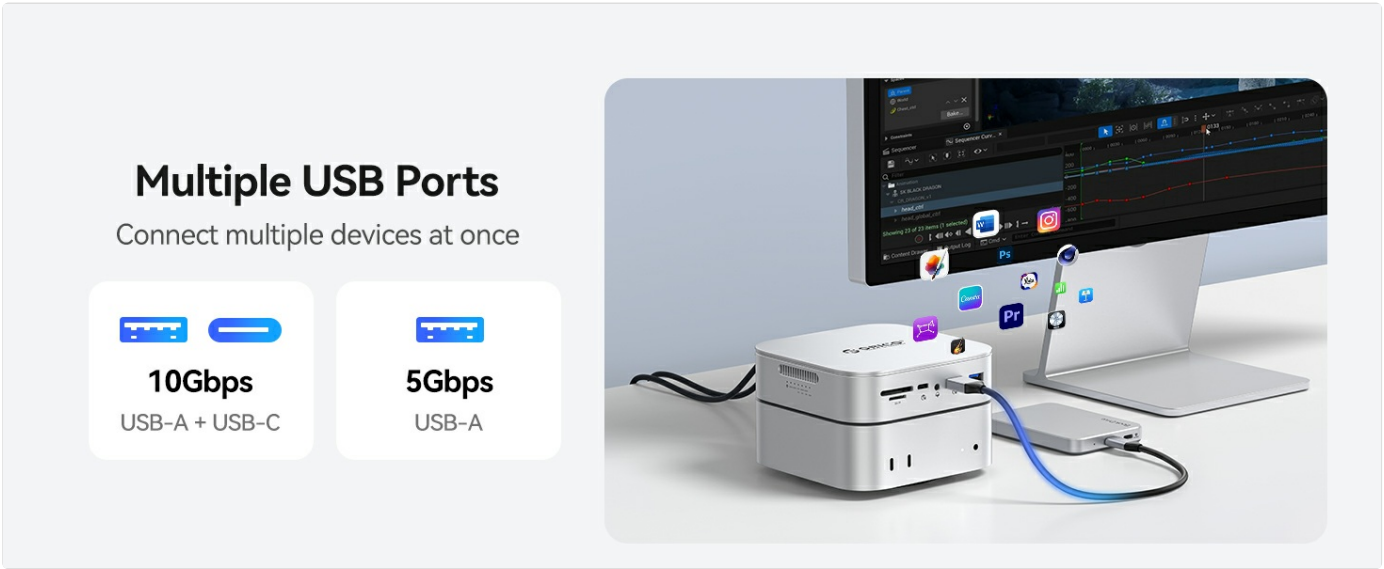


Image: Two panels showing the RJ45 Ethernet port connected for network access and the USB-C PD60W port charging a laptop.

6.6. 3.5mm Audio Port

Connect your headphones or speakers to the 3.5mm audio jack for high-quality audio output.



Image: A setup showing the ORICO MiniRaid Creator-MR10 connected to a monitor and headphones via the 3.5mm audio port.

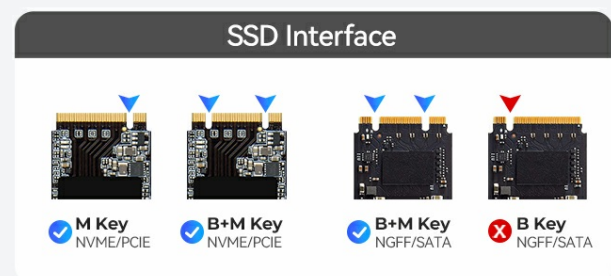
7. HEAT DISSIPATION

The ORICO MiniRaid Creator-MR10 is designed with an intelligent cooling system to ensure stable performance during heavy workloads.

- **Aluminum Alloy Shell:** Provides excellent passive heat dissipation.
- **Thermal Silicone Pads:** Transfer heat from the SSDs to the enclosure.
- **Intelligent Cooling Fan:** Automatically activates when the internal temperature reaches 50°C to actively cool components.
- **Heat Dissipation Holes:** Strategically placed vents facilitate airflow.



SSD NVMe & SATA Compatible



* Note: When using M.2 SSDs with different protocols, only the drive in DISK 1 is recognized .

Image: Exploded view of the ORICO MiniRaid Creator-MR10, highlighting its heat dissipation components including the aluminum alloy, thermal pads, cooling fan, and ventilation holes.

8. TROUBLESHOOTING

If you encounter issues with your ORICO MiniRaid Creator-MR10, refer to the following common solutions:

8.1. SSD Not Recognized

- Ensure the SSD is correctly seated in the M.2 slot and secured with the rubber fastener.
- Verify that the SSD is compatible (NVMe or SATA M.2 2230/2242/2260/2280).
- Check the RAID mode settings. If using PM mode, ensure both drives are properly initialized in your operating system's disk management utility.
- If using M.2 SSDs with different protocols, only the drive in Slot 1 may be recognized.
- Try connecting the MiniRaid to a different USB-C port or computer to rule out host-side issues.

8.2. Slow Data Transfer Speeds

- Ensure you are using a USB 3.2 Gen 2 (10Gbps) compatible port on your host device.
- Verify the quality of the USB-C cable. Use the provided cable or a certified 10Gbps USB-C cable.
- Check the SSD's performance. SATA SSDs will be slower than NVMe SSDs.
- If in RAID 1 mode, write speeds may be affected by the mirroring process. RAID 0 offers the highest speeds.

8.3. Display Issues via HDMI

- Ensure the HDMI cable is securely connected to both the MiniRaid and the monitor.
- Verify that your monitor supports 4K@60Hz.
- Check your operating system's display settings to ensure the external display is detected and configured correctly (mirror or extend mode).
- Ensure your host device's USB-C port supports DisplayPort Alternate Mode.

8.4. Power Delivery (PD) Not Working

- Ensure the external power adapter is connected to the MiniRaid and a working power outlet.
- Verify that your host device supports USB-C Power Delivery.
- Check the power requirements of your device; the MiniRaid provides up to 60W PD.

9. SPECIFICATIONS

Feature	Detail
Model Number	MR10
Brand	ORICO
Color	Silver
SSD Compatibility	M.2 NVMe/SATA (2230/2242/2260/2280)
Max SSD Capacity	Up to 4TB per SSD (8TB total)
RAID Modes	RAID 0, RAID 1, PM (JBOD), Offline Clone
USB-C Host Interface	USB 3.2 Gen 2 (10Gbps)
USB-A Ports	1 x 10Gbps, 1 x 5Gbps

Feature	Detail
USB-C Ports	1 x 10Gbps (Data), 1 x PD60W (Charging)
HDMI Output	4K@60Hz
Ethernet Port	RJ45 Gigabit (1000Mbps)
Card Reader	SD/TF 3.0 (104MB/s)
Audio Port	3.5mm Jack
Power Delivery	Up to 60W
Cooling	Aluminum alloy, thermal pads, intelligent fan
Compatible Systems	Windows, macOS, Linux, HarmonyOS
Dimensions	Approx. 5 x 5 x 1.95 inches (excluding top cover)
Item Weight	5.3 ounces

10. WARRANTY AND SUPPORT

ORICO products come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included in your package or visit the official ORICO website.

For technical support, troubleshooting assistance, or product inquiries, please contact ORICO customer service through their official channels. Contact information can typically be found on the ORICO website or in the product packaging.

Online Resources:

- ORICO Official Website: www.orico.cc
- Product Support Page (if available): Refer to the official website for model-specific support pages.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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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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