

ORICO OM28PR

ORICO OM28PR USB-C 8-in-1 Docking Station with Y20M-128 M.2 SATA SSD Bundle User Manual

Model: OM28PR

1. INTRODUCTION

Thank you for choosing the ORICO OM28PR USB-C 8-in-1 Docking Station with an integrated M.2 SSD enclosure and a bundled 128GB M.2 SATA SSD. This device is designed to expand the connectivity of your USB-C enabled laptop or desktop, providing multiple ports for data transfer, video output, network access, and power delivery, along with convenient storage expansion.

This manual provides detailed instructions for the proper installation, operation, and maintenance of your ORICO OM28PR docking station and the included M.2 SATA SSD. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product.



Image 1.1: The ORICO OM28PR USB-C 8-in-1 Docking Station shown with the included Y20M-128 M.2 SATA SSD.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- ORICO OM28PR USB-C 8-in-1 Docking Station
- ORICO Y20M-128 M.2 SATA SSD (128GB)
- Thermal Pad for M.2 SSD
- Heatsink for M.2 SSD
- Screwdriver and Screws for SSD installation
- User Manual (this document)

3. PRODUCT FEATURES AND PORT LAYOUT

The ORICO OM28PR docking station offers a comprehensive set of ports and features:

- **USB-C Host Connection:** Connects to your laptop or desktop's USB-C port.
- **HDMI Port:** Supports 4K@60Hz video output for external displays.

- **RJ45 Gigabit Ethernet Port:** Provides stable wired network connectivity (1000Mbps).
- **USB 3.2 Gen 2 Type-C Port:** 10Gbps data transfer speed.
- **USB 3.2 Gen 2 Type-A Port:** 10Gbps data transfer speed.
- **USB 2.0 Type-A Ports (x2):** 480Mbps data transfer speed, suitable for peripherals like keyboards and mice.
- **SD/TF Card Reader:** Supports simultaneous reading and writing for SD and microSD cards.
- **USB-C PD 100W Charging Port:** Allows power delivery to your host device (requires an external USB-C power adapter, not included).
- **M.2 SSD Enclosure:** Supports M.2 NVMe and SATA SSDs (2230, 2242, 2260, 2280 sizes) up to 8TB. The included SSD is M.2 SATA.

8-in-1 USB C Docking Station with M.2 SSD Enclosure

 (Max 100W)
PD Charging

 (10Gbps)
USB 3.2 GEN 2

 (10Gbps)
USB 3.2

 (480Mbps)
USB 2.0 x 2

 (1000Mb/s)
RJ45

 (4K@60Hz)
HDMI

 (NVMe/SATA)
M.2 SSD Enclosure



4. SETUP INSTRUCTIONS

4.1. M.2 SATA SSD Installation

The ORICO OM28PR includes a built-in M.2 SSD enclosure. The bundled 128GB M.2 SATA SSD needs to be installed into this enclosure.

1. Locate the M.2 SSD enclosure cover on the docking station.
2. Using the provided screwdriver, carefully remove the screw securing the cover and slide it open.
3. Insert the ORICO Y20M-128 M.2 SATA SSD into the M.2 slot. Ensure the notch on the SSD aligns with the key in the slot. The included SSD is a B+M Key SATA SSD.
4. Gently press down the SSD and secure it with the provided screw.
5. For optimal thermal management, place the thermal pad onto the SSD, then attach the heatsink on top of the thermal pad.
6. Close the enclosure cover and secure it with the screw.

Important Note: The included SSD is M.2 SATA (B+M Key). This enclosure supports both M.2 NVMe (M Key) and M.2 SATA (B+M Key) SSDs. However, the bundled SSD is SATA. Ensure your host device's M.2 slot supports SATA if you plan to use the SSD directly in a computer, or verify compatibility if using a different M.2 SSD in the enclosure. PCIe NVMe is NOT supported by the bundled SSD.

Next Generation M.2 SATA SSD

The 2280 M.2 NGFF high speed SSD with B+M Key



Image 4.1: Visual guide for M.2 SATA SSD installation, highlighting compatibility warnings.

10 Gbps
Data Transfer

M.2 NVMe/SATA SSD Enclosure



NVME & SATA Compatible



ORICO • USB-C docking station with M.2 SSD enclosure
• Storage & Expansion All-in-One Solution



Others

- 1* USB C dock & 1* M.2 SSD enclosure
- Cluttered desk
- Not conducive to portability

Image 4.2: Diagram illustrating M.2 SSD enclosure compatibility with NVMe and SATA drives of various sizes.

4.2. Connecting to Host Device

1. Connect the integrated USB-C cable from the ORICO OM28PR docking station to an available USB-C port on your laptop or desktop. Ensure your host device's USB-C port supports data transfer and DisplayPort Alternate Mode (Alt Mode) for video output.
2. The docking station is plug-and-play; no drivers are typically required for Windows, macOS, or Linux.

4.3. Power Delivery (Optional)

To charge your laptop via the docking station, connect a USB-C power adapter (not included) to the USB-C PD

100W charging port on the docking station. The docking station will then pass power through to your host device.

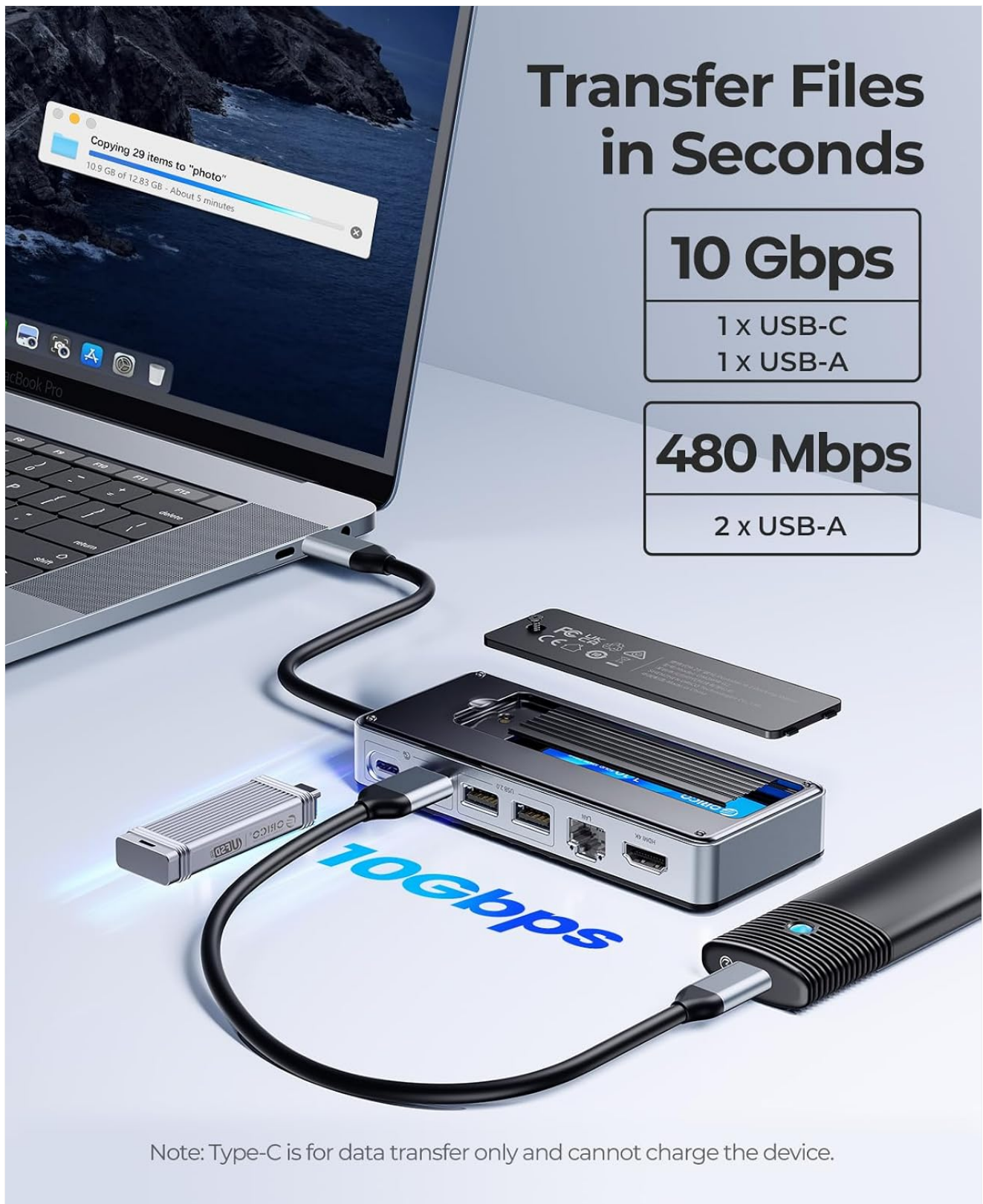
5. OPERATING INSTRUCTIONS

5.1. Data Transfer

Utilize the USB 3.2 Gen 2 (10Gbps) Type-C and Type-A ports for high-speed data transfer with external drives, flash drives, or other compatible devices. The USB 2.0 ports are suitable for connecting standard peripherals.

- **10Gbps Ports:** 1x USB-C, 1x USB-A
- **480Mbps Ports:** 2x USB-A

The integrated M.2 SSD enclosure, with the pre-installed 128GB M.2 SATA SSD, will appear as an external storage device on your computer. You can use it for file storage, backups, or running applications.



The illustration shows a silver MacBook Pro on the left, connected to a silver docking station. A black cable connects the laptop's USB-C port to the docking station's USB-C port. Another black cable connects the docking station's USB-A port to a small, silver, rectangular external drive. A third black cable connects the docking station's USB-A port to a larger, black, rectangular external drive. The docking station has several ports: a USB-C port, two USB-A ports, an Ethernet port, and an HDMI port. A blue light is visible on the front of the docking station. In the background, a laptop screen displays a file transfer progress bar that says "Copying 29 items to 'photo'" and "10.9 GB of 12.83 GB - About 5 minutes". To the right of the docking station, there are two boxes listing specifications: "10 Gbps" with "1 x USB-C" and "1 x USB-A", and "480 Mbps" with "2 x USB-A". The text "10Gbps" is also written in large blue letters on the surface in front of the docking station.

Transfer Files in Seconds

10 Gbps
1 x USB-C 1 x USB-A

480 Mbps
2 x USB-A

10Gbps

Note: Type-C is for data transfer only and cannot charge the device.

Image 5.1: Illustration of high-speed data transfer capabilities via the docking station's USB ports.

5.2. Video Output

Connect an external monitor or projector to the HDMI port on the docking station. Ensure your display cable is securely connected. Your computer should automatically detect the external display. You can configure display settings (mirror, extend, primary display) through your operating system's display settings.

- Supports resolutions up to 4K (3840x2160) at 60Hz.



Image 5.2: Example of the docking station connected to an external 4K display.

5.3. Network Connection

For a stable and fast internet connection, connect an Ethernet cable from your router or modem to the RJ45 Gigabit Ethernet port on the docking station. Your computer will automatically detect the wired network connection.

5.4. Card Reader

Insert SD or microSD cards into the corresponding slots for quick access to photos, videos, and other files. Both slots can be used simultaneously.

6. MAINTENANCE AND CARE

- Keep the docking station in a dry environment, away from direct sunlight and extreme temperatures.
- Avoid dropping or subjecting the device to strong impacts.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or solvents.
- Ensure proper ventilation around the device during operation.
- When disconnecting, always safely eject any connected storage devices (including the internal M.2 SSD) from your operating system before unplugging the docking station.

7. TROUBLESHOOTING

Problem	Possible Solution
No display output via HDMI.	Ensure your host device's USB-C port supports DisplayPort Alt Mode. Check HDMI cable connections at both the docking station and the monitor. Try a different HDMI cable or monitor. Update graphics drivers on your host device. Adjust display settings in your operating system.
M.2 SSD not detected.	Verify the SSD is correctly installed and secured in the enclosure. Ensure the SSD is M.2 SATA (B+M Key) or M.2 NVMe (M Key) and not a PCIe-only NVMe SSD if you replaced the bundled one. Check Disk Management (Windows) or Disk Utility (macOS) to see if the SSD needs to be initialized or formatted. Reconnect the docking station to your host device.
Slow data transfer speeds.	Ensure you are using the 10Gbps USB 3.2 Gen 2 ports for high-speed devices. Verify the connected device (e.g., external SSD) also supports 10Gbps speeds. Check the quality of the USB cable used for the external device.
No network connection.	Check the Ethernet cable connection to both the docking station and your router/modem. Verify network settings on your host device. Try a different Ethernet cable.
Laptop not charging via PD port.	Ensure your external USB-C power adapter is connected to the PD port and is powerful enough (e.g., 65W or 100W). Verify your laptop supports USB-C Power Delivery. Check the USB-C cable connecting the docking station to your laptop.

8. SPECIFICATIONS

Feature	Specification
Model	OM28PR
Host Interface	USB-C

Feature	Specification
HDMI Output	1x HDMI (4K@60Hz)
Ethernet	1x RJ45 Gigabit Ethernet (10/100/1000Mbps)
USB Data Ports	1x USB-C 3.2 Gen 2 (10Gbps) 1x USB-A 3.2 Gen 2 (10Gbps) 2x USB-A 2.0 (480Mbps)
Power Delivery	1x USB-C PD 100W (Input)
Card Reader	SD/TF (simultaneous read/write)
M.2 SSD Enclosure	Supports M.2 NVMe (M Key) and M.2 SATA (B+M Key) SSDs Sizes: 2230, 2242, 2260, 2280 Max Capacity: 8TB
Included SSD	ORICO Y20M-128 M.2 SATA SSD (128GB) Read Speed: Up to 500MB/s Write Speed: Up to 450MB/s
Compatibility	Windows, macOS, Linux, Android (with USB-C DP Alt Mode support)

Enhanced Performance

SATA 3.0



Read Speeds up to
500MB/s

Write Speeds up to
450MB/s

*Performance may vary depending on the SSD's firmware version, system and hardware configuration.

Image 8.1: Performance specifications for the included ORICO Y20M-128 M.2 SATA SSD.

Compatible with Multiple Devices



Desktop



Laptop



WARNING

- ⚠ * Not Compatible with PCIe NVMe Devices.
- ⚠ * Please verify that your device fully supports M.2 SATA/NGFF/AHCI SSD before purchasing.

Image 8.2: Compatibility information for the ORICO Y20M-128 M.2 SATA SSD with various devices.

Safe, Reliable and Durable

Comprehensive smart technology provide high efficiency performance



Image 8.3: Features ensuring the reliability and durability of the ORICO Y20M-128 M.2 SATA SSD.

9. 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 with your product or visit the official ORICO website. If you encounter any issues or require technical assistance, please contact ORICO customer support through their official channels or the retailer where you purchased the product.

ORICO Official Website: www.oricotech.com

