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› ORICO 9-in-1 USB-C Docking Station with M.2 NVMe SSD Enclosure User Manual

ORICO ORICO-CDH-9N-GY-BP-A-EU

ORICO 9-in-1 USB-C Docking Station with M.2 NVMe SSD Enclosure User Manual

Model: ORICO-CDH-9N-GY-BP-A-EU | **Brand:** ORICO

1. INTRODUCTION

Thank you for choosing the ORICO 9-in-1 USB-C Docking Station with M.2 NVMe SSD Enclosure. This versatile device expands the connectivity of your USB-C enabled laptop, tablet, or phone, while also providing an integrated M.2 NVMe SSD slot for storage expansion. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

2. PRODUCT OVERVIEW

The ORICO 9-in-1 USB-C Docking Station is designed to be a compact and powerful solution for your connectivity and storage needs. It features a robust aluminum alloy body that aids in efficient heat dissipation. Key functionalities include high-speed data transfer, 4K video output, fast charging, and network connectivity.



Figure 2.1: ORICO 9-in-1 USB-C Docking Station with M.2 NVMe SSD Enclosure.

- **10Gbps M.2 NVMe SSD Enclosure:** Supports M.2 NVMe M Key/B&M Key SSDs (up to 4TB) for storage expansion and high-speed data transfer (up to 1000MB/s).
- **4K@30Hz Media Display:** HDMI port for mirroring or extending your screen to an external display.
- **10Gbps Super Speed USB Ports:** Three USB 3.1 Gen2 ports for rapid data transfer.
- **100W PD Charging:** Power Delivery port for fast charging your laptop.
- **Gigabit Ethernet:** RJ45 port for stable and fast wired network connection (up to 1 Gbps).
- **SD/TF Card Reader:** Convenient access to files from SD and TF cards (not simultaneously).
- **3.5mm Audio Port:** For audio input and output.

3. SETUP

To begin using your ORICO docking station, follow these general setup steps. For M.2 NVMe SSD installation, please refer to Section 5.

1. **Connect to Host Device:** Use the provided USB-C to USB-C cable to connect the docking station's 'Host' USB-C port to your laptop, tablet, or phone.
2. **Connect Power (Optional but Recommended):** For optimal performance and to enable laptop charging, connect a PD (Power Delivery) fast charger (up to 100W, 20V/5A) to the docking station's 'PD' USB-C port.

3. **Connect Peripherals:** Plug in your desired peripherals such as external monitors (via HDMI), USB devices (via USB-A/USB-C), Ethernet cable (via RJ45), and SD/TF cards.



Figure 3.1: Connecting peripherals to the ORICO 9-in-1 Docking Station.

4. OPERATING INSTRUCTIONS

Once connected, the ORICO docking station operates plug-and-play with most modern operating systems. Your connected peripherals will be recognized automatically.

- **External Display:** Connect an HDMI cable from the docking station to your monitor or TV. Your device should automatically detect the external display. Adjust display settings (mirror/extend) in your operating system's display preferences.
- **USB Devices:** Simply plug your USB-A or USB-C devices into the corresponding ports. They will function as if directly connected to your host device.
- **Network Connection:** Connect an Ethernet cable to the RJ45 port for a stable wired internet connection.

- **Card Reader:** Insert your SD or TF card into the appropriate slot. The card will appear as a removable drive on your computer. Note that SD and TF cards cannot be used simultaneously.
- **Audio:** Plug your headphones or speakers into the 3.5mm audio jack.

5. M.2 NVMe SSD INSTALLATION

The docking station includes an M.2 NVMe SSD enclosure for expanding your storage. Follow these steps to install an SSD:

1. **Unscrew the Cover:** Locate the small screw on the bottom cover of the docking station. Use the provided screwdriver to remove it and slide off the aluminum plate.
2. **Insert SSD:** Gently insert your M.2 NVMe M Key or B&M Key SSD into the M.2 slot. Ensure it is fully seated (*Note: This enclosure does NOT work with M.2 SATA SSDs.*)
3. **Secure SSD:** Use the provided small screw to secure the SSD in place.
4. **Apply Thermal Pad:** Peel off the protective film from the provided thermal pad and place it directly on top of the SSD chips. This helps dissipate heat to the aluminum casing.
5. **Replace Cover:** Slide the aluminum plate back into position and secure it with the screw.
6. **Format SSD:** Connect the docking station to your computer. The new SSD will appear as an unformatted drive. Use your operating system's disk utility (e.g., Disk Management on Windows, Disk Utility on macOS) to format and partition the SSD before use.

Fit for M.2 NVMe M Key B&M Key SSD

Not Work with M.2 SATA SSD Max Support up to 4TB Capacity

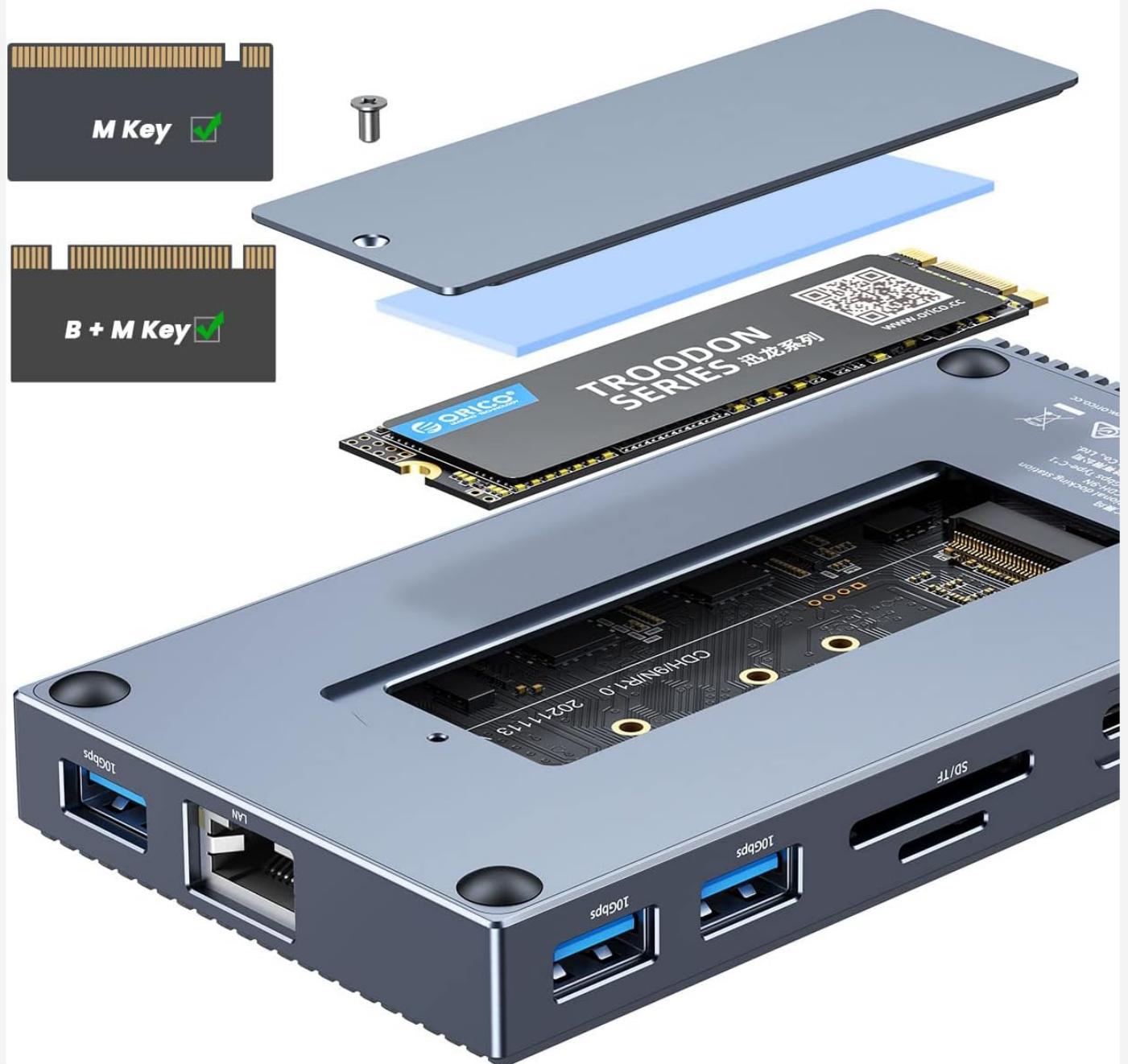


Figure 5.1: M.2 NVMe SSD compatibility and installation.

Video 5.1: Official product video demonstrating the installation of an M.2 NVMe SSD into the enclosure and showcasing its various features and connectivity options.

6. CONNECTIVITY AND PORTS

The ORICO docking station offers a comprehensive array of ports to meet diverse connectivity needs:

- **HDMI Port:** Supports 4K resolution at 30Hz for high-definition video output. It also supports MST (Multi-Stream Transport) function for Windows systems, allowing for extended desktop displays. *(Note: MST is not supported on*

Mac systems.)

- **USB 3.1 Gen2 Ports (3x USB-A, 1x USB-C):** Provides super-speed data transfer rates of up to 10Gbps, enabling quick transfer of large files. These ports are backward compatible with USB 3.0/2.0/1.1 devices.
- **USB-C PD Port:** Dedicated port for Power Delivery, supporting up to 100W to fast charge your host device.
- **Gigabit Ethernet (RJ45):** Offers a stable and reliable wired network connection with speeds up to 1000Mbps, supporting auto 10/100/1000Mbps.
- **SD/TF Card Reader:** Allows easy transfer of photos and videos from SD and TF cards. The card reader supports speeds up to 104MB/s. *(Note: TF and SD cards cannot be used simultaneously.)*
- **3.5mm Audio Port:** Combines microphone input and audio-out functions for headsets.

Transfer Files in Seconds

Backward Compatible with USB USB3.0/2.0/1.1 Devices

10X
Faster Than USB2.0

USB 3.1

5120Mbps

USB 2.0

480Mbps

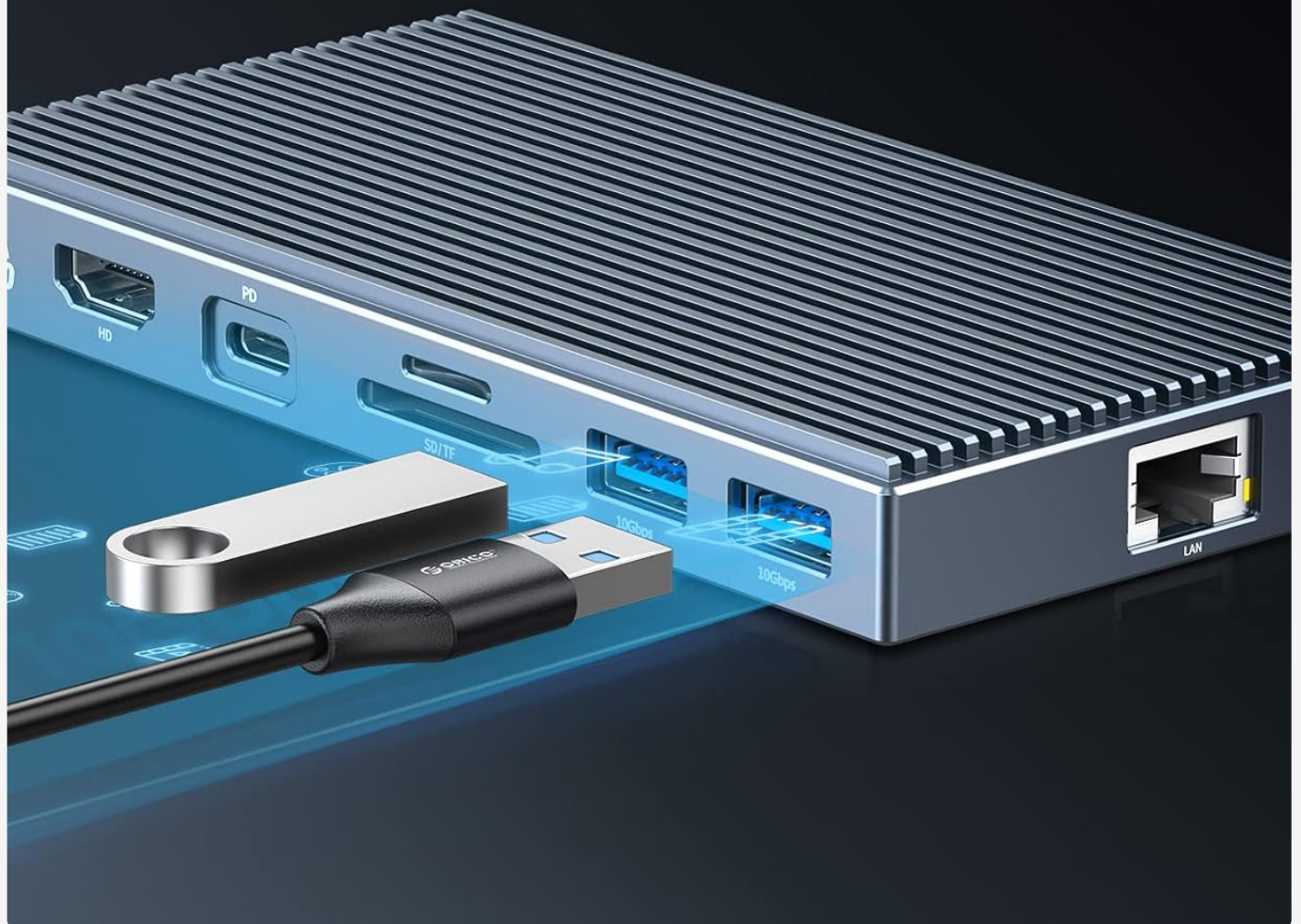


Figure 6.1: High-speed data transfer capabilities.



Figure 6.2: SD/TF Card Reader.



Figure 6.3: Gigabit Ethernet Port.

7. POWER DELIVERY

The docking station supports PD3.0 with up to 100W (20V/5A) fast charging. This allows you to power your laptop through the docking station, simplifying cable management on your desk. Ensure you use a compatible PD fast charger for optimal charging performance.

Fast and Stable Charging

Supports PD3.0, 100W (20V/5A) fast charging

100W



Note: Please use a PD fast charger for charging it.

Figure 7.1: 100W Power Delivery Fast Charging.

8. HEAT DISSIPATION

The ORICO docking station features an aluminum alloy striped shell design. This design significantly expands the heat dissipation area, effectively reducing heat generated by the high-speed operation of the internal SSD and other components. It is normal for the surface temperature to reach approximately 50°C during heavy use, as this indicates efficient heat transfer away from internal components.

Superior Heat Dissipation

The Temperature of the Device

Time	5min	10min	15min	20min	30min
The temperature	32.9°	39.8°	44.9°	48.6°	53.2°



*The data comes from ORICO laboratory. It will change depending on the specific conditions.

Figure 8.1: Superior Heat Dissipation Performance.

9. WIDE COMPATIBILITY

This docking station is designed for broad compatibility across various devices and operating systems:

- **Compatible Devices:** MacBook Pro, iPad Pro, Surface Go 2, XPS, and other USB-C/Type-C/Thunderbolt 3 enabled devices.

- **Compatible Systems:** Windows, Mac OS, Chrome OS.

Wide Compatibility

Devices



MacBook Pro



iPad Pro



Surface Go 2



XPS

Systems



Windows



Mac Os



Chrome Os



Figure 9.1: Wide Compatibility with Devices and Systems.

To ensure the longevity and optimal performance of your ORICO docking station, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the device. Avoid using liquid cleaners or solvents, as they may damage the finish or internal components.
- **Storage:** When not in use, store the docking station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Avoid sharp bends or kinks in the cables, especially the main USB-C host cable, to prevent internal wire damage.
- **Avoid Physical Impact:** Protect the device from drops or strong impacts, which can damage internal circuitry or the SSD.

11. TROUBLESHOOTING

If you encounter issues with your ORICO docking station, refer to the following common problems and solutions:

- **Issue: HDMI display not working or flickering.**
Solution: Ensure the HDMI cable is securely connected at both ends. Verify that your monitor supports the selected resolution and refresh rate (e.g., 4K@30Hz). Update your graphics drivers on your host device. Try a different HDMI cable or monitor to rule out external issues.
- **Issue: M.2 NVMe SSD not recognized or unstable.**
Solution: Confirm that the installed SSD is an M.2 NVMe (M Key or B&M Key) and not an M.2 SATA SSD. Ensure the SSD is correctly inserted and secured in the slot. Format and partition the SSD using your operating system's disk utility. If using a Mac, ensure the SSD is formatted to a compatible file system (e.g., APFS or ExFAT). Ensure your host device's USB-C port provides sufficient power, or connect an external PD charger to the docking station. Some SSDs, especially double-sided ones, might have fitment issues or require specific thermal pads; ensure the thermal pad is making proper contact for heat transfer.
- **Issue: USB ports are unstable or cause host device crashes.**
Solution: Ensure the docking station is receiving adequate power, especially if multiple power-hungry devices are connected. Use a PD charger of 30W or higher. Disconnect and reconnect the docking station. Update your host device's USB drivers.
- **Issue: Docking station feels warm/hot.**
Solution: The aluminum alloy body is designed to dissipate heat from the internal SSD and components. It is normal for the device to feel warm (up to approximately 50°C) during operation, especially under heavy load. This indicates efficient heat transfer. Ensure adequate airflow around the device and avoid covering it.
- **Issue: Ethernet connection is unstable or slow.**
Solution: Check the Ethernet cable for damage and ensure it is securely plugged into both the docking station and your router/modem. Verify your network drivers are up to date on your host device. Try a different Ethernet cable or port on your router.

12. SPECIFICATIONS

Feature	Specification
Product Dimensions	5.55 x 2.87 x 0.71 inches
Item Weight	1.76 pounds

Feature	Specification
Model Number	ORICO-CDH-9N-GY-BP-A-EU
Brand	ORICO
Color	Gray
Hardware Interface	USB 3.0 (Note: USB 3.1 Gen2 for 10Gbps ports)
Compatible Devices	MacBook Pro, iPad Pro, Surface Go 2, XPS, USB-C/Type-C/Thunderbolt 3 devices
Total USB Ports	3 (USB-A) + 1 (USB-C PD) + 1 (USB-C Host)
Number of Ports	9-in-1 (HDMI, PD USB-C, 3x USB-A, 3.5mm Audio, SD, TF, RJ45)
Total HDMI Ports	1
Wattage (PD)	100 watts
M.2 NVMe SSD Support	M Key / B&M Key (up to 4TB), NOT M.2 SATA

13. WARRANTY AND SUPPORT

ORICO products are manufactured to high-quality standards. This product is covered by a standard manufacturer's warranty. For detailed warranty terms and conditions, please refer to the warranty card included in the product packaging or visit the official ORICO website.

If you require technical assistance, troubleshooting, or have any questions regarding your ORICO 9-in-1 USB-C Docking Station, please contact ORICO customer support through their official channels. Provide your product model number and a detailed description of the issue for faster service.

ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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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