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> ORICO Thunderbolt 4 Docking Station (Model ORICO-TB4-US) User Manual

ORICO ORICO-TB4-US

ORICO Thunderbolt 4 Docking Station User Manual

Model: ORICO-TB4-US | Brand: ORICO

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your ORICO Thunderbolt 4 Docking Station. This 12-in-1 docking station is designed to expand connectivity for your computer, supporting high-speed data transfer, multiple display outputs, and efficient power delivery. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x ORICO Thunderbolt 4 Docking Station
- 1x 130W Power Adapter
- 1x 1M/3.3FT 40Gbps USB-C to USB-C Cable
- 1x Instruction Manual

Packing List

- 1 Thunderbolt 4 Dock
- 2 40Gbps Data Cable
- 3 20V 6.5A Power Adapter
- 4 User Manual



Figure 1: Contents of the ORICO Thunderbolt 4 Docking Station package.

Video 1: An unboxing video demonstrating the contents of the Thunderbolt 4 docking station package.

PRODUCT OVERVIEW

Port Layout

The ORICO Thunderbolt 4 Docking Station features a comprehensive array of ports to meet various connectivity needs. Familiarize yourself with the port layout for proper connection.

12-in-1 Thunderbolt 4 Docking Station



Figure 2: Front and Rear Port Layout of the Docking Station.

- **Front Ports:** 3.5mm Audio Combo Jack, USB-C 3.2 Gen 2 (10Gbps), USB-A 3.2 Gen 2 (10Gbps), Thunderbolt 4 Port (PD 15W), Thunderbolt 4 Host Port (PD 85W), Power Switch.
- **Rear Ports:** DC-IN, DisplayPort 1.4 (8K@30Hz/4K@60Hz), HDMI 2.0 (8K@30Hz/4K@60Hz), Gigabit Ethernet (LAN), 2x USB-A 2.0 (480Mbps), TF/SD Card Slots.

SETUP GUIDE

1. Power Connection

Connect the provided 130W power adapter to the DC-IN port on the rear of the docking station, then plug the power adapter into a wall outlet. The docking station requires external power for full functionality and to provide power delivery to your host device.

2. Connecting to Your Computer

Use the included 1M/3.3FT USB-C to USB-C cable to connect your computer's Thunderbolt 4 port to the Thunderbolt 4 Host Port (PD 85W) on the front of the docking station. This single connection handles data, video, and power delivery to your laptop.



Figure 3: Connecting the docking station for power and host device charging.

3. Connecting Peripherals

Connect your desired peripherals to the available ports on the docking station:

- **Monitors:** Use the DisplayPort 1.4 and HDMI 2.0 ports for external displays.
- **USB Devices:** Connect USB-A and USB-C devices (keyboards, mice, external drives) to the respective ports.
- **Network:** Plug an Ethernet cable into the Gigabit Ethernet port for a stable wired network connection.
- **Audio:** Connect headphones or speakers to the 3.5mm Audio Combo Jack.
- **Memory Cards:** Insert SD or TF cards into the dedicated slots.

OPERATING INSTRUCTIONS

Data Transfer

The Thunderbolt 4 ports support data transfer speeds of up to 40Gbps, allowing for rapid transfer of large files. The USB-C 3.2 Gen 2 and USB-A 3.2 Gen 2 ports offer 10Gbps speeds, while the USB-A 2.0 ports provide 480Mbps.

40Gbps Ultra High Speed

Transfer 3GB files in 1 Second

 **Thunderbolt 4**
Downstream

 **Thunderbolt 4**
Upstream

40Gbps



Figure 4: High-speed data transfer via Thunderbolt 4 ports.

Video 2: Demonstrating the expanded connectivity and high-speed data transfer capabilities of the ORICO Thunderbolt 4 Docking Station.

Display Connectivity

The docking station supports various display configurations:

- **Single Display:** Up to 8K resolution at 30Hz via DisplayPort or HDMI.
- **Dual Display:** Up to 4K resolution at 60Hz for each monitor.

Note: Users with M1/M2/M3 chip laptops or tablets are limited to extending a single display. M1/M2/M3 Pro/Max and Intel chip Macs support dual display output.

Dual 4K 60Hz Resolution

Double the clarity, double the productivity



M1/M2/M3 chip only can extend 1 monitor, M1/M2/M3 Pro/Max, Intel chip support dual display

Figure 5: Dual 4K display setup with the docking station.

Single 8K 30Hz Resolution

Experience unparalleled detail



Figure 6: Single 8K display setup with the docking station.

Daisy Chain Functionality

The downstream Thunderbolt 4 port supports daisy-chaining, allowing you to connect multiple Thunderbolt devices in series. This feature helps reduce cable clutter and expand your workstation's capabilities.



Figure 7: Daisy chain connection setup.

COMPATIBILITY

The ORICO Thunderbolt 4 Docking Station is compatible with a wide range of operating systems and devices:

- **Mac OS:** Compatible with macOS 11.4 and above, including MacBook Pro models with M3, M3 Pro, M3 Max, M2, M2 Pro, M2 Max, M2 Ultra, M1, M1 Pro, M1 Max, M1 Ultra, and Intel-based Macs.
- **Windows:** Compatible with Windows 10 and above.
- **Note:** iPad or other tablets only support single display mode.



Operating System	Display	Interface			Display Mode
		HDMI 2.0	DisplayPort 1.4	Thunderbolt 4	
 Windows	Single Display	8k@30Hz Max	8k@30Hz Max	8k@30Hz Max	AA/AB
	Dual Display	4K@60Hz Max	4K@30Hz Max	4k@60Hz Max	ABC/AAB/ABB
 macOS	Single Display	4K@60Hz Max	4K@60Hz Max	4K@60Hz Max	AA/AB
	Dual Display	4K@60Hz Max	4K@60Hz Max	4K@60Hz Max	ABC/AAA/AAB/ABB

Figure 8: System and display compatibility overview.

MAINTENANCE AND CARE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the docking station. Avoid liquid cleaners or abrasive materials.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the docking station to strong impacts.
- **Ventilation:** Ensure proper airflow around the device to prevent overheating. The aluminum shell is designed for efficient heat dissipation.



Figure 9: Design features for durability and cooling.

TROUBLESHOOTING

If you encounter issues with your ORICO Thunderbolt 4 Docking Station, refer to the following common problems and solutions:

- **No Power/Device Not Recognized:**

- Ensure the 130W power adapter is securely connected to both the dock and a working power outlet.
- Verify the Thunderbolt 4 cable is firmly connected between your computer and the dock's host port.
- Try restarting your computer and the docking station.

- **No Display Output:**

- Check that display cables (HDMI/DisplayPort) are securely connected to both the dock and the monitor.
- Confirm your monitor is set to the correct input source.
- Ensure your computer's display settings are configured to extend or mirror the display.
- Remember M1/M2/M3 chip laptops may be limited to a single external display.

- **Slow Data Transfer Speeds:**

- Ensure you are using the provided Thunderbolt 4 cable for the host connection.
- Verify that the connected peripheral supports the expected speed (e.g., a USB 2.0 device will not achieve 40Gbps).
- Avoid connecting too many high-bandwidth devices simultaneously if performance drops.

- **Intermittent Connections:**

- Check all cable connections for looseness.
- Ensure your computer's drivers are up to date.
- Minimize electromagnetic interference from other electronic devices.

TECHNICAL SPECIFICATIONS

Feature	Specification
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Feature	Specification
Product Dimensions	7.1 x 3.43 x 1 inches (18.03 x 8.71 x 2.54 cm)
Item Weight	11.8 ounces (335 Grams)
Model Number	ORICO-TB4-US
Brand	ORICO
Color	Silvery grey
Hardware Interface	3.5mm Audio, DisplayPort, Ethernet, HDMI, Thunderbolt, USB 2.0 Type A, USB 3.1 Type A
Compatible Devices	MacBook Pro (and other compatible Mac/Windows devices)
Total USB Ports	6 (2x Thunderbolt 4, 1x USB-C 10Gbps, 1x USB-A 10Gbps, 2x USB-A 480Mbps)
Number of Ports	12
Total HDMI Ports	1
Wattage	130W (Power Adapter), 85W (Host Charging), 15W (Downstream Charging)
Date First Available	March 25, 2024

WARRANTY AND SUPPORT

ORICO products are designed and manufactured to the highest quality standards. For warranty information, technical support, or customer service inquiries, please refer to the official ORICO website or contact their customer support directly. Keep your purchase receipt as proof of purchase for warranty claims.