WAVLINK WL-UMD28

WAVLINK WL-UMD28 11-in-1 USB C Triple Display Docking Station User Manual

Model: WL-UMD28 (2 DP + HDMI)

1. Product Overview

The WAVLINK WL-UMD28 is an 11-in-1 USB C Triple Display Docking Station designed to expand the connectivity of your laptop or compatible device. It features multiple ports for video output, data transfer, network connectivity, and power delivery.



Figure 1: WAVLINK WL-UMD28 Docking Station with connected peripherals.

Key Features:

- **11-in-1 Connectivity:** Includes USB-C (125W PD Pass-Through host), 1x HDMI, 2x DisplayPort, USB-C (PD3.1 in), 1x 10Gbps USB-C 3.2, 2x 5Gbps USB-A ports, 104MB/s SD/Micro SD card reader, Gigabit RJ45 Ethernet port, and a 3.5mm Audio/Mic Jack.
- **High-Resolution Display:** Supports single display up to 8K@30Hz or 4K@144Hz. Dual displays support 4K@60Hz. Triple displays support dual 4K@30Hz and 4K@60Hz (on Windows with DP 1.4 with DSC).
- **Power Delivery:** USB-C PD3.1 input supports up to 140W, delivering up to 125W to your laptop (15W reserved for downstream ports). A 100W or higher USB-C PD charger is recommended for stable performance.
- **Wide Compatibility:** Compatible with Thunderbolt 3/4 laptops and devices with full-function USB-C ports. Supports Windows, Mac OS, Chrome OS, Linux, iPad OS, Android, iOS, and Harmony OS.
- **Vertical Stand Design:** Offers a tidy layout and improved heat dissipation.

2. Setup Guide

2.1 Package Contents

Verify that your package contains the following items:

- WAVLINK WL-UMD28 Docking Station
- USB-C to USB-C Data Cable
- Power Adapter (if included with your specific model variant)
- Quick Start Guide

2.2 Port Identification

Familiarize yourself with the ports on the docking station:



Figure 2: Front and back ports of the WAVLINK WL-UMD28.

- **Front Ports:** V3.0 Micro SD, V3.0 SD, 2x 5Gbps USB-A, 1x 10Gbps USB-C, TRRS 4-pole phone jack (Audio/Mic), USB-C (Host, PD125W).
- **Rear Ports:** 1000Mbps RJ45 Ethernet, 2x DisplayPort 1.4, 1x HDMI 2.1, 140W USB-C PD3.1 Input.

2.3 Initial Connection Steps

1. **Power Connection:** Connect the power adapter (if included) to the 140W USB-C PD3.1 input port on the rear of the docking station. Plug the power adapter into a wall outlet.
2. **Host Connection:** Connect the provided USB-C to USB-C data cable from the USB-C (Host, PD125W) port on the front of the docking station to a full-function USB-C port on your laptop. Ensure your laptop's USB-C port supports video output and charging.
3. **Monitor Connection:** Connect your external monitors to the HDMI and DisplayPort outputs on the rear of the docking station.
4. **Peripheral Connection:** Connect any USB devices (keyboard, mouse, external drives), SD/Micro SD cards, or Ethernet cables to the corresponding ports.

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Video 1: An overview of the WAVLINK Laptop Docking Station and its ports.

3. Operating Instructions

3.1 Display Configuration

The docking station supports various display modes depending on your operating system and graphics card capabilities.

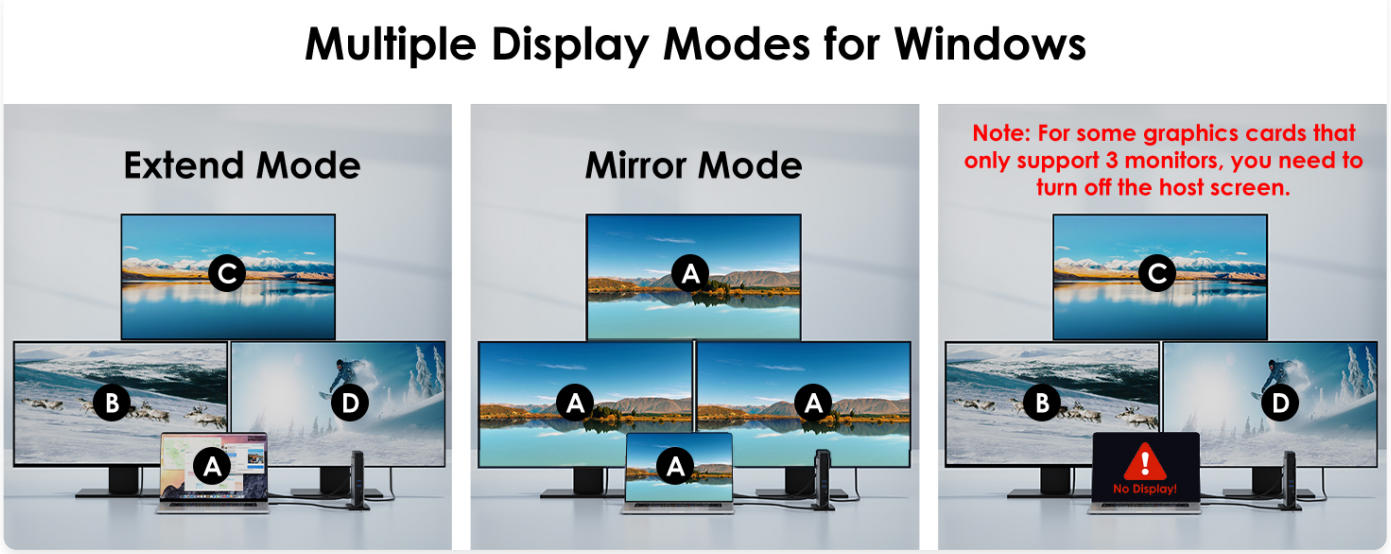

Figure 3: Multiple Display Modes for Windows.

- **Windows:** Supports Mirror Mode (all displays show the same content) and Extend Mode (each display shows different content). For some graphics cards that only support 3 monitors, you may need to disable the built-in monitor to achieve triple external display.
- **macOS and iPadOS:** Only support Single-Stream Transport (SST) mode. All connected monitors will show the same content (ABBB). Multi-Stream Transport (MST) for extended displays is not supported by macOS.



Figure 4: Multiple Display Modes for Mac OS, highlighting MST limitation.

3.2 Power Delivery (PD3.1)

The docking station supports PD3.1 for charging your host laptop. When connected to a 140W PD3.1 charger, it can deliver up to 125W to your laptop. Using a lower wattage charger (e.g., 65W) may result in slow or failed charging as 15W is reserved for the dock's internal operations and downstream ports.

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Video 2: Demonstration of 125W charging compatibility with MacBook.

3.3 Data Transfer and Network

- **USB Ports:** Utilize the 10Gbps USB-C port and 5Gbps USB-A ports for high-speed data transfer with external storage devices, keyboards, mice, and other peripherals.
- **SD/Micro SD Card Reader:** Insert your SD or Micro SD cards into the dedicated slots for quick access to photos and videos (up to 104MB/s).
- **Ethernet:** Connect an Ethernet cable to the Gigabit RJ45 port for a stable and fast wired network connection.

4. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the docking station. Avoid liquid cleaners or solvents.
- **Ventilation:** Ensure the ventilation grilles at the top and bottom of the docking station are not obstructed to allow for proper airflow and prevent overheating. The vertical stand design aids in this.
- **Cable Management:** Keep cables organized and untangled to prevent strain on ports and accidental disconnections.
- **Storage:** When not in use for extended periods, store the docking station in a cool, dry place away from direct sunlight.

5. Troubleshooting

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

- **Monitor Not Working:**
  - Ensure your PC or laptop has a USB-C port that supports DisplayPort Alt mode.
  - Check all cable connections (USB-C host, HDMI/DP to monitors).
  - For Windows, ensure your graphics card supports the number of monitors connected. You might need to disable the built-in monitor for triple external displays.
  - For macOS, remember that only Single-Stream Transport (SST) is supported, meaning all external monitors will mirror the same content.
- **Docking Station Fails to Charge Laptop:**
  - Confirm your PC or laptop's USB-C port supports USB Power Delivery (PD).
  - Use a 100W or higher USB-C PD charger connected to the dock's PD3.1 input. Lower wattage chargers may not provide sufficient power to the laptop after the dock reserves 15W.
- **Resolution Lower Than Advertised:**
  - Check if your computer's graphics card supports the appropriate DisplayPort (DP) version and Display Stream Compression (DSC) technology.
  - Verify that your HDMI cable is HDMI 2.1 and your DP cable is DP1.4 for optimal resolution.
  - Ensure your monitor supports the desired resolutions.

For further assistance, please refer to the official WAVLINK support resources or contact customer service.

6. Specifications

Feature	Detail

Model Number	2DP+1HDMI (WL-UMD28)
Product Dimensions	7.17 x 5.2 x 2.76 inches
Item Weight	1.47 pounds (0.67 Kilograms)
Hardware Interface	DisplayPort, HDMI, Micro USB 2.0 Type A, USB Type C
Total USB Ports	5 (1x 10Gbps USB-C, 2x 5Gbps USB-A, 2x USB-C for host/PD)
Total HDMI Ports	1
Total DisplayPort	2
Wattage (PD Output)	125W (from 140W input)
Compatible Devices	Apple M4/M3/M2/M1 (MacBook 2018 or later), Intel Macs (macOS 11+), Dell XPS, Latitude, Alienware, HP EliteBook, Spectre, ZBook, Intel NUC, Thinkpad, Yoga, MSI, ASUS ZenBook, and more.

7. Warranty and Support

WAVLINK products typically come with a manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official WAVLINK website for detailed warranty terms and conditions.

For technical support, product inquiries, or troubleshooting assistance, please contact WAVLINK customer service through their official website or the contact information provided in your product documentation.

Manufacturer: WAVLINK

Brand: WAVLINK

Official Website: www.wavlink.com (Refer to the FAQ section for compatibility details:WAVLINK Compatibility FAQ)

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

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Email

you@example.com

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