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WAVLINK 13-in-1 Multiport USB C Adapter

WAVLINK 13-in-1 USB C Docking Station Instruction Manual

Model: 13-in-1 Multiport USB C Adapter

1. Introduction

This manual provides detailed instructions for the setup, operation, and troubleshooting of your WAVLINK 13-in-1 USB C Docking Station. This multiport adapter is designed to expand the connectivity of your USB-C enabled laptop, offering multiple display outputs, USB ports, power delivery, and network access.

2. Product Overview

The WAVLINK 13-in-1 USB C Docking Station transforms a single USB-C port into 13 versatile ports, enhancing your productivity and connectivity. It features:

- 1 x Power Delivery (PD) charging port
- 1 x Gigabit RJ45 Ethernet Port
- 2 x 4K HDMI ports
- 1 x 4K DisplayPort (DP)
- 2 x Super Speed USB 3.0 Ports (up to 5Gbps)
- 2 x USB 2.0 Ports (backward compatible)
- 1 x SD Card Slot
- 1 x TF Card Slot
- 1 x Mic/Audio 3.5mm Jack



Figure 2.1: Overview of the WAVLINK 13-in-1 USB C Docking Station with labeled ports including HDMI, USB, PD, RJ45, DP, SD/TF, and Audio.

3. Setup Instructions

Follow these steps to set up your WAVLINK 13-in-1 USB C Docking Station:

1. **Connect the Docking Station to your Laptop:** Plug the integrated USB-C cable from the docking station into a compatible USB-C port on your laptop. Ensure your laptop's USB-C port supports video output (DisplayPort Alternate Mode) for display functionality.
2. **Connect Power (Optional but Recommended):** If your laptop supports USB Power Delivery, connect your laptop's original USB-C power adapter to the PD charging port on the docking station. This will provide up to 60W power delivery to your laptop and 27W to other peripherals.
3. **Connect External Displays:** Connect your monitors to the HDMI 1, HDMI 2, and/or DisplayPort (DP) outputs on the docking station using appropriate cables.
4. **Connect USB Peripherals:** Plug in your USB devices such as keyboards, mice, external hard drives, or printers into the available USB 3.0 or USB 2.0 ports.
5. **Connect to Network:** For a stable wired internet connection, connect an Ethernet cable from your router or modem to the Gigabit RJ45 port on the docking station.
6. **Insert Memory Cards:** If needed, insert SD or TF memory cards into their respective slots for data access.

7. **Connect Audio Devices:** Plug in headphones or speakers into the 3.5mm Mic/Audio jack.

Your operating system should automatically detect the connected devices. If you encounter any issues, refer to the Troubleshooting section.

4. Operating Instructions

4.1 Display Modes

The docking station supports various display configurations depending on your operating system and laptop's capabilities.

Windows System Display Modes

Windows systems support both Mirror (SST) and Extend (MST) modes for multiple displays.

- **Triple Display:** When connecting 2 HDMI ports and 1 DP port simultaneously, the HDMI and DP monitors can display one identical screen. The resolution will be limited to 1920x1080@60Hz.
- **Dual Display:** If you connect 2 HDMI ports or 1 HDMI + 1 DP port, both extended screens will operate at 1920x1080@60Hz.
- **Single 4K Display:** For 4K@60Hz resolution, connect only to HDMI 1 or the DP port. For 4K@30Hz, connect only to HDMI 2.



Figure 4.1: Triple Display configurations for Windows, illustrating both Mirror and Extend modes.

macOS System Display Modes

Due to macOS limitations, Multi-Stream Transport (MST) is not supported. macOS only supports Mirror mode and non-mirror (extended) mode where all external monitors display the same content, but different from the laptop screen.

- **Triple Display:** All three external monitors will display the same content, which can be mirrored or extended from the laptop's display. Resolutions for HDMI1, HDMI2, and DP will be 1920x1080@60Hz.
- **Single 4K Display:** For 4K@60Hz resolution, connect only to HDMI 1 or the DP port. For 4K@30Hz, connect only to HDMI 2.



Figure 4.2: Triple Display configurations for macOS, illustrating Mirror and non-mirror Extend modes.

Important Display Notes:

- Ensure your laptop's USB-C port supports video output (DisplayPort Alternate Mode).
- For 4K@60Hz output, your laptop's USB-C port should support DP1.4. Otherwise, you may only achieve 4K@30Hz.

Video Demonstrations:

Video 4.1: Demonstrates the features and connectivity of the WAVLINK 13-in-1 USB C Docking Station, including various port functionalities and display setups for Windows and macOS.

Video 4.2: Illustrates the triple display capabilities of the WAVLINK docking station, specifically focusing on dual HDMI and DisplayPort connections with 87W Power Delivery.

4.2 Data Transfer

The docking station provides high-speed data transfer capabilities:

- **USB 3.0 Ports:** Two Super Speed USB 3.0 ports offer data transfer speeds up to 5 Gbps.
- **USB 2.0 Ports:** Two USB 2.0 ports provide transfer speeds up to 480 Mbps. It is advisable to connect USB 2.0 ports for stable Wi-Fi connections due to potential USB 3.0 radio frequency interference.
- **SD/TF Card Slots:** Built-in SD and TF card slots allow easy access to files from memory cards with speeds up to 5 Gbps.



Figure 4.3: The docking station facilitates productive data transfer with multiple USB ports and card readers.

4.3 Power Delivery

The 87W PD3.0 pass-through charging port allows you to power your laptop and connected peripherals:

- Up to 60W power delivery to your laptop.
- Up to 27W power delivery to other peripherals.

Note:

- The Type-C PD charging port is only applicable to devices with the PD protocol.



Figure 4.4: The docking station supports power delivery to the connected laptop and peripherals.

4.4 Network Connectivity

The 1000M Ethernet port provides instant and stable access to a wired internet connection, supporting 10/100/1000Mbps speeds.

5. Compatibility

The WAVLINK 13-in-1 USB C Docking Station is compatible with a wide range of laptops, smartphones, and tablets that feature a full-function USB-C port supporting data transfer, USB-C power delivery, and video alternate mode. Compatible devices include, but are not limited to:

- Dell XPS 9380/ XPS 13 9365/ XPS 15 2018/ XPS 13 9300/ New XPS 15; Latitude 7280/ Latitude 5310 2-in-1; Precision 7730/ Precision 7750; Laptop 5590
- HP Spectre Laptop 13-af001TU/ Spectre x360 13t/ Spectre folio (13t-ak000cto)/ Spectre 360 laptop/ Specter x369; Elitebook 840 G5 series/ Elitebook X2/ Elitebook x360 1030 G3/ Elitebook 745 G6/ Elitebook 830 G6/ 2018 HP Elite

800 G4; Envy Geforce mx250/ Envy x360 Laptop (15z-ds100)

- Lenovo Yoga 720-13IKB/ Yoga 730/ Yoga 900-13ISK/ Yoga 910/ Yoga 920/ Yoga 930/ Yoga 940-14IIL; 3rd generation Thinkpad Yoga; Yoga15 Thinkpad Ultrabook Pro; Thinkpad E590/ Thinkpad P72/ Thinkpad T470/ Thinkpad X1 Carbon (2019 model); Flex 14 IML (81XG)/ Flex 5; Legion Y530; Lenovo C930/ T480s/ X390/ 81N8
- Microsoft Surface Book 2/ Surface Go/ Surface Laptop 3; Surface Pro 7
- Huawei Macbook Mate10/ Mate10 pro/ Mate20/ Mate20 pro / Mate30/ Mate30Pro; Google Slate (2019); Chromebook C340-15; SanDisk Cruise Glide; Razer Blade 2017 (gtx 1060); Pixel book go 2019/2020



Figure 5.1: The docking station offers universal compatibility with various USB-C devices.

6. Specifications

Feature	Specification
Model	13-in-1 Multiport USB C Adapter

Feature	Specification
Package Dimensions	7.44 x 3.98 x 0.67 inches
Item Weight	6.5 ounces
Hardware Interface	USB
Total USB Ports	6 (2x USB 3.0, 2x USB 2.0, 2x USB 3.0 on other side)
Total HDMI Ports	2
DisplayPort	1
Ethernet Port	Gigabit RJ45 (10/100/1000Mbps)
Card Reader	SD/TF Card Slot
Audio Jack	3.5mm Mic/Audio
Power Delivery	87W PD3.0 (up to 60W to laptop, 27W to peripherals)
Max Display Resolution (Single)	4K@60Hz (HDMI 1 or DP), 4K@30Hz (HDMI 2)
Max Display Resolution (Dual/Triple)	2K@60Hz (Windows), 1920x1080@60Hz (macOS)

7. Troubleshooting

If you encounter issues with your WAVLINK 13-in-1 USB C Docking Station, consider the following:

- **No Display Output:**
  - Ensure your laptop's USB-C port supports DisplayPort Alternate Mode.
  - Check all cable connections (USB-C to laptop, HDMI/DP to monitors).
  - Verify monitor input sources are correctly selected.
  - Update your laptop's graphics drivers.
  - For macOS, remember that external displays will mirror or show the same extended content, not independent extended displays.
- **Intermittent Connections or Slow Speeds:**
  - Ensure the docking station is receiving adequate power, especially if multiple power-hungry devices are connected.
  - Try connecting USB 2.0 devices to the USB 2.0 ports to avoid potential interference with Wi-Fi signals.
  - Ensure all cables are securely connected.
- **Charging Issues:**
  - Confirm your laptop and power adapter support USB Power Delivery (PD) protocol.
  - Use your laptop's original power adapter with the docking station's PD port.
- **Ethernet Not Working:**
  - Check the Ethernet cable connection to both the router/modem and the docking station.
  - Verify network settings on your computer.

8. Warranty and Support

WAVLINK provides comprehensive support for its products:

- **Warranty:** This product comes with an 18-month warranty.
- **Customer Service:** 24/7 online customer service is available.
- **Technical Support:** Lifetime technical support is provided.
- **Phone Support:** You can reach support at +1 8889730883 (UTC -5) Monday - Friday, 9 AM - 10 PM.

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.

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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