WAVLINK UMD08

WAVLINK UMD08 USB-C Docking Station User Manual

Model: UMD08 | Brand: WAVLINK

1. INTRODUCTION

The WAVLINK UMD08 USB-C Docking Station is a 12-in-1 solution designed to expand the connectivity of your USB-C enabled laptop or device. It provides multiple ports for display output, data transfer, network connectivity, and power delivery, streamlining your workspace with a single cable connection.

This docking station features 2 USB 3.0 ports, 2 USB 2.0 ports, 2 HDMI ports, 1 DisplayPort, a Gigabit Ethernet port, an upstream USB-C port for host connection, SD/Micro SD card readers, and a 3.5mm audio jack. It supports triple display configurations and delivers up to 85W of power to your host device.

Image 1.1: Overview of the WAVLINK UMD08 12-in-1 USB-C Triple Display Docking Station highlighting its various connectivity options.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- WAVLINK UMD08 USB-C Docking Station
- Quick Start Guide
- Driver Download Links (CD or online resource)

Image 2.1: Contents of the WAVLINK UMD08 package, including the docking station, quick start guide, and driver disc.

3. SYSTEM REQUIREMENTS

To ensure proper functionality, your host device must meet the following requirements:

- **Operating System:** Windows 11/10/8.1/8/7/XP/Vista, Mac OS X 10.X or above, Linux, Chrome OS, Android, HarmonyOS, iPadOS.
- **USB-C Port:** Your device's USB-C port must be full-featured, supporting Data Transfer, USB-C Power Delivery, and Video Alternate Mode (Alt Mode).
- **Thunderbolt:** Compatible with Thunderbolt 3 or Thunderbolt 4 ports.

If your USB-C port only supports data or data+video output without Power Delivery, certain functions of the docking station (e.g., charging, specific display outputs) may not be available.
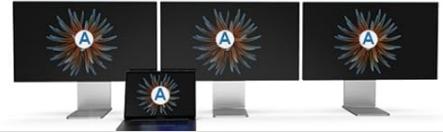
Image 3.1: Illustration of USB-C port capabilities and their impact on docking station functionality.

Image 3.2: Extensive compatibility of the docking station with various operating systems and device types.

4. SETUP AND CONNECTION

4.1 Confirming USB-C Port Capabilities

Before connecting, it is crucial to confirm that your laptop's USB-C port supports video output and charging (Power Delivery). Refer to your laptop's manual or manufacturer's specifications.

Image 4.1: Guide to verifying your laptop's USB-C port functionality for video and charging.

4.2 Connecting the Docking Station

1. Connect the integrated USB-C cable from the docking station to a full-featured USB-C port on your laptop.

2. For power delivery to your laptop, connect your laptop's original power adapter to the USB-C PD (Power In) port on the docking station. An external wall charger is recommended for maximum output.

3. Connect your external monitors to the HDMI and/or DisplayPort outputs on the docking station.

4. Connect any USB peripherals (keyboard, mouse, external drives) to the available USB 3.0 or USB 2.0 ports.

5. For a wired network connection, connect an Ethernet cable to the Gigabit Ethernet (RJ45) port.

6. Insert SD or Micro SD cards into the respective slots for data access.

7. Connect headphones or speakers to the 3.5mm audio jack.

Expand More Possibilities

USB-C (host, PD **85W** for PC)

LED Indicator	**USB 3.0** (5Gb/s)	**TF Slot** (25MB/s)	**SD Slot** (25MB/s)	**Audio Jack** (3.5mm, 4-pole)

USB 3.0   Micro SD   SD

LAN   USB 2.0   USB 2.0   USB 3.0   DISPLAYPORT   HDMI   HDMI   USB-C POWER IN

RJ45 Ethernet (1000Mb/s)	**2*USB 2.0** (480Mb/s)	**USB 3.0** (5Gb/s)	**DisplayPort 1.4** (4K@60Hz)	**2*HDMI 2.0** (4K@60Hz)	**PD** (Charge ONLY, **100W**)
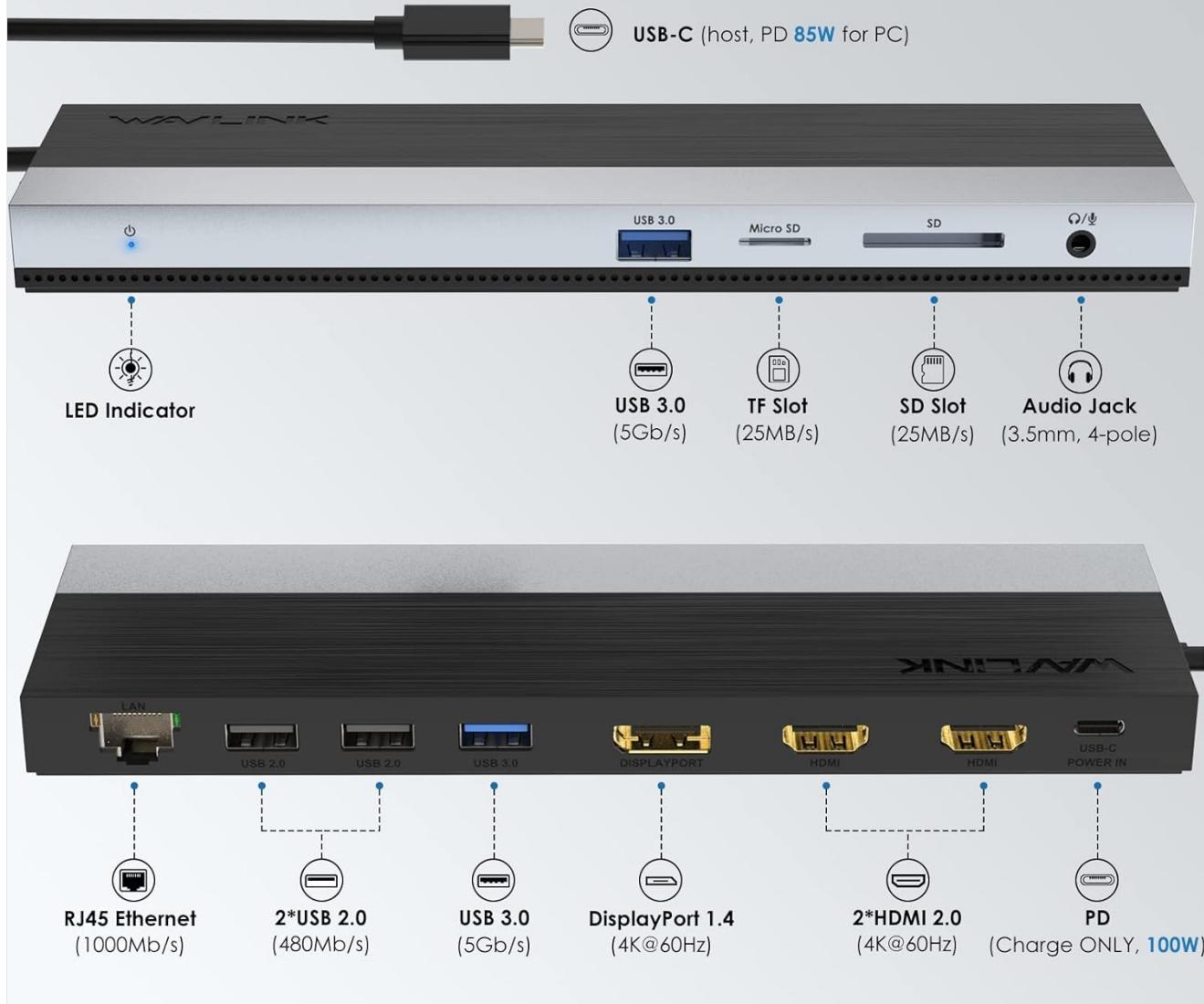
Image 4.2: Front view of the docking station with labeled ports for USB 3.0, Micro SD, SD, and Audio Jack.

Powerful Pass-Through Charging

Note: Make sure the USB-C port of your laptop support charging

Input
100W

Output
85W

*It requires your own laptop charger and cable

Image 4.3: Rear view of the docking station with labeled ports for Ethernet, USB 2.0, USB 3.0, DisplayPort, HDMI, and USB-C Power Delivery.

Your browser does not support the video tag.

Video 4.1: An overview of the WAVLINK UMD08 USB-C Docking Station's features and connectivity.

5. OPERATING INSTRUCTIONS

5.1 Power Delivery

The docking station supports up to 100W power input and provides up to 85W power output to charge your connected laptop. Ensure your laptop's USB-C port supports Power Delivery protocol for this function.

Image 5.1: Power delivery capabilities, illustrating 100W input and 85W output for laptop charging.

5.2 Display Configuration

The UMD08 docking station supports various display configurations depending on your host device's capabilities and operating system.

Windows Display Modes:

For Windows systems, the docking station supports single, dual, and triple monitor setups with various resolutions and refresh rates. Ensure your laptop supports DP1.4 with DSC for optimal performance.

- **Single Monitor:** Up to 4K@60Hz (DP1.4 with DSC).
- **Dual Monitor:** Up to 2x 4K@30Hz (DP1.4 with DSC).
- **Triple Monitor:** Up to Dual 4K@30Hz + 1080P@60Hz (DP1.4 with DSC).

Common modes include Mirror Mode (duplicate displays) and Extend Mode (separate displays).

Triple Display Modes for Windows & MacOS

The perfect choice for multi-monitor home office

Windows

NOTE: Make sure your laptop support **DP1.4 with DSC**. For some graphics cards that only support 3 monitors, you need to turn off the host screen.

HDMI 1 | HDMI 2 | DP

Mirror Mode
Dual 4K@30Hz+1080P@60Hz(DP1.4 with DSC)

Extend Mode
Dual 4K@30Hz+1080P@60Hz(DP1.4 with DSC)

MacOS

NOTE: Make sure your laptop support **DP1.4 with DSC**. Intel/M1/M2 based Mac can only extend **ONE** monitor.

HDMI 1 | HDMI 2 | DP

Mirror Mode
Dual 4K@30Hz+1080P@60Hz(DP1.4 with DSC)

Non-Mirror Mode
Dual 4K@30Hz+1080P@60Hz(DP1.4 with DSC)

*Image 5.2: Triple display modes for Windows and macOS, illustrating mirror and extend options.*

Read Before Purchase

Please confirm which function of your laptop's USB-C port supports, if you are not sure, pls let us know

Only Data

USB | SD/TF | Ethernet
Audio
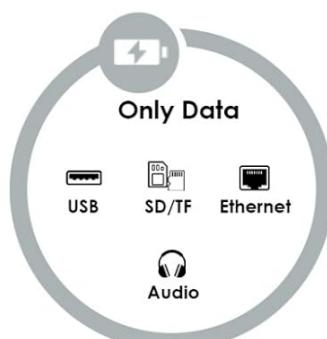
The USB-C charging port and HDMI & DP ports will not work.

Only Data+Video Output

USB | SD/TF | Ethernet
Audio | DP | HDMI
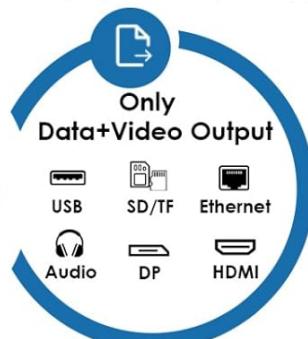
The USB-C upstream charging port will not work.

Full Function (Data+Video+PD)

USB | SD/TF | Ethernet
PD3.0 | DP | HDMI
Audio
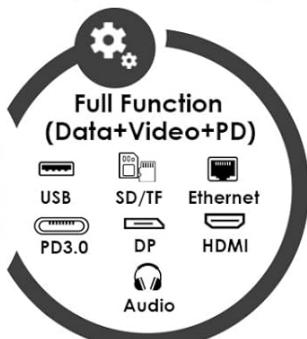
All ports on the dock can work normally

Image 5.3: Detailed resolution and refresh rate capabilities for various display configurations.

Image 5.4: Visual examples of Extend and Mirror display modes on Windows.

macOS Display Modes:

For Intel/M1/M2 based Mac systems, the docking station can only extend one monitor due to macOS limitations. Other external displays will mirror the content of the extended monitor.

Common modes include Non-Mirror Mode (one extended, others mirrored) and Mirror Mode (all displays show the same content).

How to Confirm if the USB-C Port of Your Laptop Supports Video Output and Charging?

Step 1

Please **check the model** of your laptop, it should be on the back of the label.

CN:0800
UX435
MFD:2021 - 08
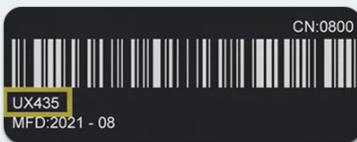
Step 2

Search "**brand + the model number of the device + manual**" in Google, for example: "asus ux435 manual".

Google   asus ux435 manual

Step 3

Check the manual and navigate to the view and **check the type-c specification,** if it states it **supports power delivery** which means it supports charging. If it states the type-c port **supports display** which means it could support video output. If the specification state **bandwidth the type-c port supports only,** which means the type-c port **might not support video output and charging.** You could also contact the manufacturer to confirm that.

2 Thunderbolt 4 port with Power Delivery
The Thunderbolt 4 port is compatible with USB Type-C® standards, and provides a transfer rate of up to 40 Gbit/s for Thunderbolt 4 devices. Connect your Notebook PC to a DisplayPort, VGA, DVI, or HDMI external display and experience high-resolution display features via Intel® Thunderbolt technology. Insert the bundled power adapter into this port to charge the battery pack and supply power to your Notebook PC.

3 USB 3.2 Gen 1 port
The USB 3.2 (Universal Serial Bus 3.2) Gen 1 port provides a transfer rate of up to 5 Gbit/s and is backward compatible to USB 2.0.

Image 5.5: Visual examples of Non-Mirror and Mirror display modes on macOS.

Additional Display Features:

- **Rotation Mode:** Supported on both Windows and macOS.
- **Clamshell Mode:** Supported on both Windows and macOS.

Extensive Compatibility

✅ Windows 11/10/8.1/8/7/XP/Vista

✅ Mac 10.X or above

✅ Linux, Chrome, Android, HarmonyOS, iPadOS

Please Note: The USB-C port of your devices should support charging and video output, or some of the product's ports will not be available. Refer to the details page for more information.
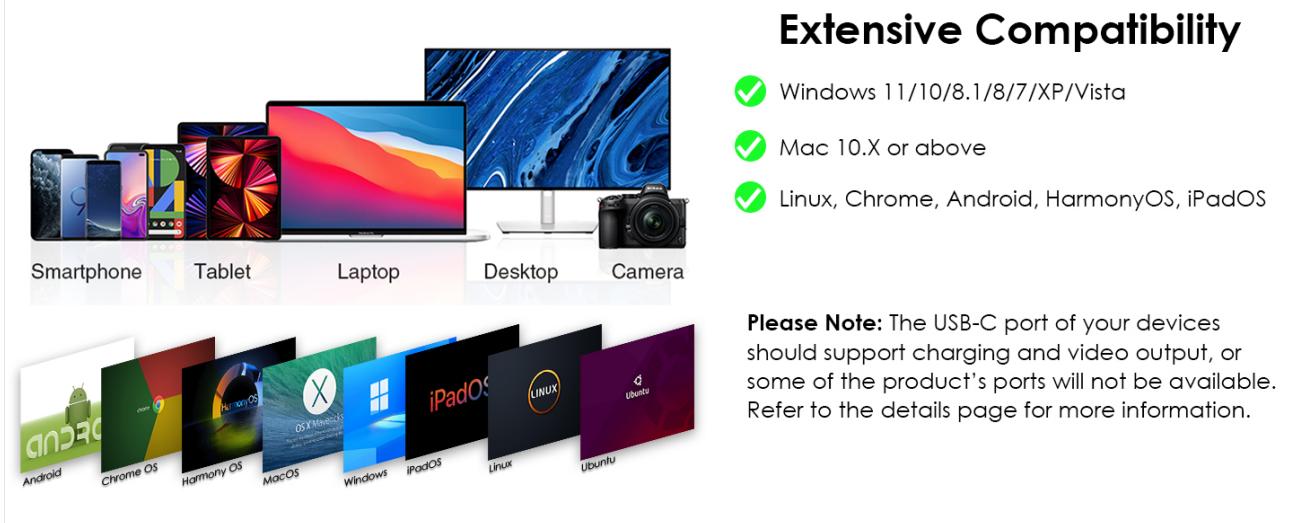
Image 5.6: Illustration of Rotation Mode and Clamshell Mode.

5.3 Data Transfer

The docking station offers high-speed data transfer capabilities:

- **USB 3.0 Ports:** Two ports support data speeds up to 5Gbps.
- **USB 2.0 Ports:** Two ports support data speeds up to 480 Mb/s.
- **SD/Micro SD Slots:** Supports memory cards up to 2TB. Both slots can be read simultaneously.
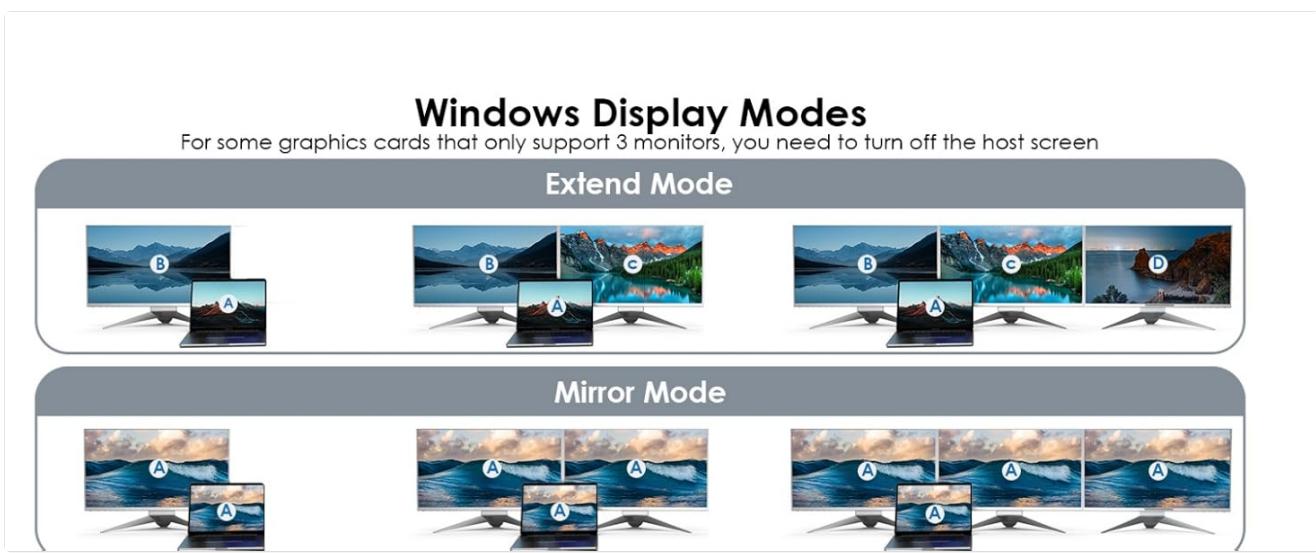
Image 5.7: High-speed data transmission via USB 3.0 and SD/TF card slots.

5.4 Network Connectivity

The Gigabit Ethernet (RJ45) port provides a stable and fast wired network connection, supporting speeds up to 1000Mbps.

6. MAINTENANCE

To ensure the longevity and optimal performance of your WAVLINK UMD08 docking station, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the docking station. Avoid liquid cleaners or aerosols.

- **Ventilation:** Ensure the ventilation holes are not obstructed to allow for proper heat dissipation. The device is designed with ventilation holes and anti-slip mats for stability and airflow.
- **Storage:** Store the docking station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the device to strong impacts.

Image 6.1: Design features for heat dissipation, cable length, and stability.

7. TROUBLESHOOTING

If you encounter issues with your WAVLINK UMD08 docking station, refer to the following common troubleshooting steps:

- **No Display Output:**
    - Ensure your laptop's USB-C port supports Video Alternate Mode.
    - Check all cable connections (USB-C to laptop, HDMI/DP to monitors).

- Verify monitor input sources are correctly selected.
- Update your graphics drivers on your laptop.
- For macOS, remember that only one external monitor can be extended; others will mirror.

- **Laptop Not Charging:**

  - Confirm your laptop's USB-C port supports Power Delivery.
  - Ensure your laptop's original power adapter is connected to the docking station's USB-C PD port.
  - Verify the power adapter is functioning correctly.

- **Intermittent Connections (Display/USB):**

  - Ensure all cables are securely connected.
  - Try using different cables if available.
  - Disconnect and reconnect the docking station from your laptop.
  - Excessive heat can sometimes cause instability. Ensure adequate ventilation around the docking station.

- **Ethernet Not Working:**

  - Check the Ethernet cable connection to both the docking station and your router/modem.
  - Verify network settings on your laptop.

- **SD/Micro SD Card Not Detected:**

  - Ensure the card is fully inserted into the correct slot.
  - Test the card directly in your laptop (if possible) or with another reader to rule out card issues.

8. SPECIFICATIONS

Feature	Specification
Model Number	UMD08-UA
Product Dimensions	8 x 2 x 0.5 inches (207mm L x 58mm W x 20mm H)
Item Weight	3.53 ounces (100 Grams)
Number of Ports	12
Hardware Interface	3.5mm Audio, DisplayPort, Ethernet, HDMI, Multimedia Card, USB Type C
Total USB Ports	4 (2x USB 3.0, 2x USB 2.0)
USB 3.0 Data Speed	Up to 5Gbps
USB 2.0 Data Speed	Up to 480 Mb/s
Total HDMI Ports	2
DisplayPort	1
Ethernet	Gigabit (RJ45) up to 1000Mbps
SD/Micro SD Card Reader	Supports up to 2TB, simultaneous reading

Feature	Specification
Audio Jack	3.5mm (4-Pole)
Power Delivery (Input)	100W
Power Delivery (Output to Host)	85W
Cable Length	1.8 ft (55cm)

Size Chart
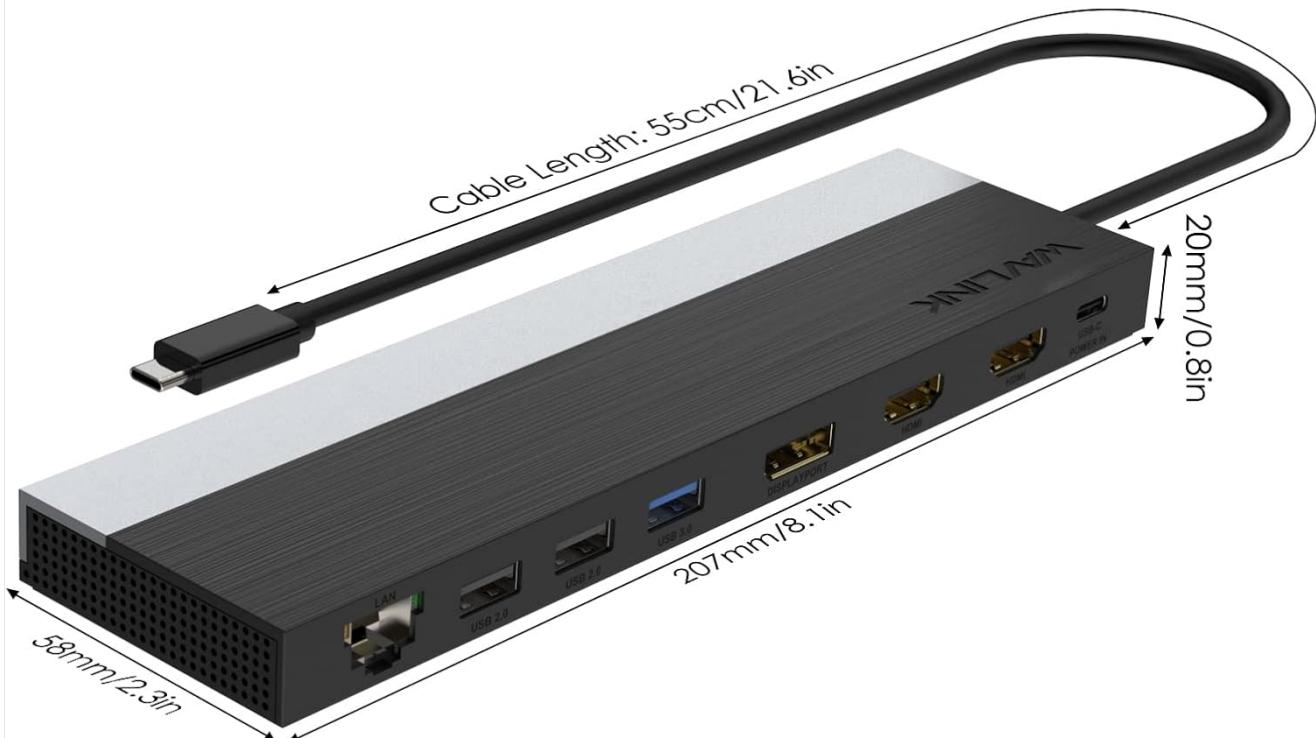
Image 8.1: Physical dimensions and weight of the WAVLINK UMD08 docking station.

9. WARRANTY AND SUPPORT

WAVLINK provides customer service and email support for its products. If you require assistance or have questions regarding your UMD08 docking station, please contact us:

- **Phone Support:** +1 888 973 0883 (UTC-5) Mon-Fri 9AM-6PM
- **Email Support:** Contact@wavlink.com

For the most up-to-date warranty information, please refer to the official WAVLINK website or contact customer support directly.

Image 9.1: WAVLINK customer support contact information.