FALWEDI USB C Docking Station 16-in-1 Multiport Hub

FALWEDI USB C Docking Station 16-in-1 Multiport Hub User Manual

1. Product Overview

The FALWEDI 16-in-1 USB C Docking Station is a versatile multiport hub designed to expand the connectivity of your USB-C enabled laptop. It supports dual and triple monitor setups, high-speed data transfer, power delivery, and various peripheral connections.



Image 1.1: The FALWEDI 16-in-1 USB C Docking Station, showcasing its compact design and multiple ports.

Key Features:

- **Triple Display Output:** Supports up to three external monitors via 2 HDMI, 1 DisplayPort (DP), and 1 VGA port.
- **Power Delivery:** Includes a 100W Power Delivery (PD3.0) input port for laptop charging and an 18W USB-C output port.

- **High-Speed Data Transfer:** Features USB 3.1 (10Gbps), USB 3.0 (5Gbps), and USB 2.0 ports.
- **Ethernet Connectivity:** RJ45 Gigabit Ethernet port for stable wired network access.
- **Card Readers:** Integrated SD and Micro SD card slots.
- **Audio:** 3.5mm audio/microphone jack.

2. Setup Guide

2.1 Package Contents

Please ensure all items are present:

- FALWEDI 16-in-1 USB C Docking Station
- USB-C to USB-C Cable (for host connection)
- User Manual (this document)

2.2 Port Identification



Image 2.1: Detailed diagram of the FALWEDI docking station's front and rear ports, including USB-C, USB-A, audio, SD/TF card slots, PD3.0, VGA, HDMI, DisplayPort, and RJ45 Ethernet.

2.3 Initial Connection

1. **Verify Laptop USB-C Port:** Ensure your laptop's USB-C port supports 'Full Function' (Power Delivery, Data Transfer, and DisplayPort Alternate Mode). The docking station will only function fully with such a port.

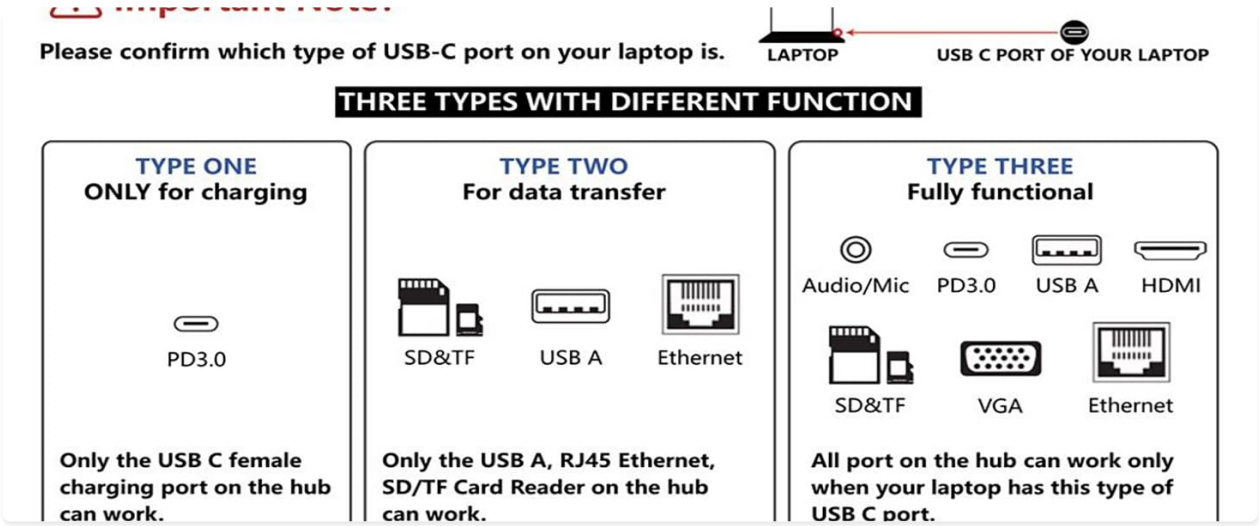


Image 2.2: Illustration of different USB-C port types and their functionalities (charging only, data transfer only, or fully functional).

2. **Connect Power Adapter:** Connect a **100W Power Delivery (PD) adapter** (not included) to the PD3.0 input port on the docking station. This is crucial for stable operation and charging your laptop.



Image 2.3: Diagram showing the connection of a 100W power adapter to the docking station for power input and laptop charging.

3. **Connect to Laptop:** Use the provided USB-C to USB-C cable to connect the docking station's 'USB-C input (Host)' port to your laptop's compatible USB-C port.
4. **Connect Peripherals:** Connect your monitors, keyboard, mouse, Ethernet cable, and other devices to the corresponding ports on the docking station.

3. Operating Instructions

3.1 Display Configuration

The docking station supports various display modes for Windows and macOS. Ensure your laptop's graphics card and USB-C port support the desired display configuration.

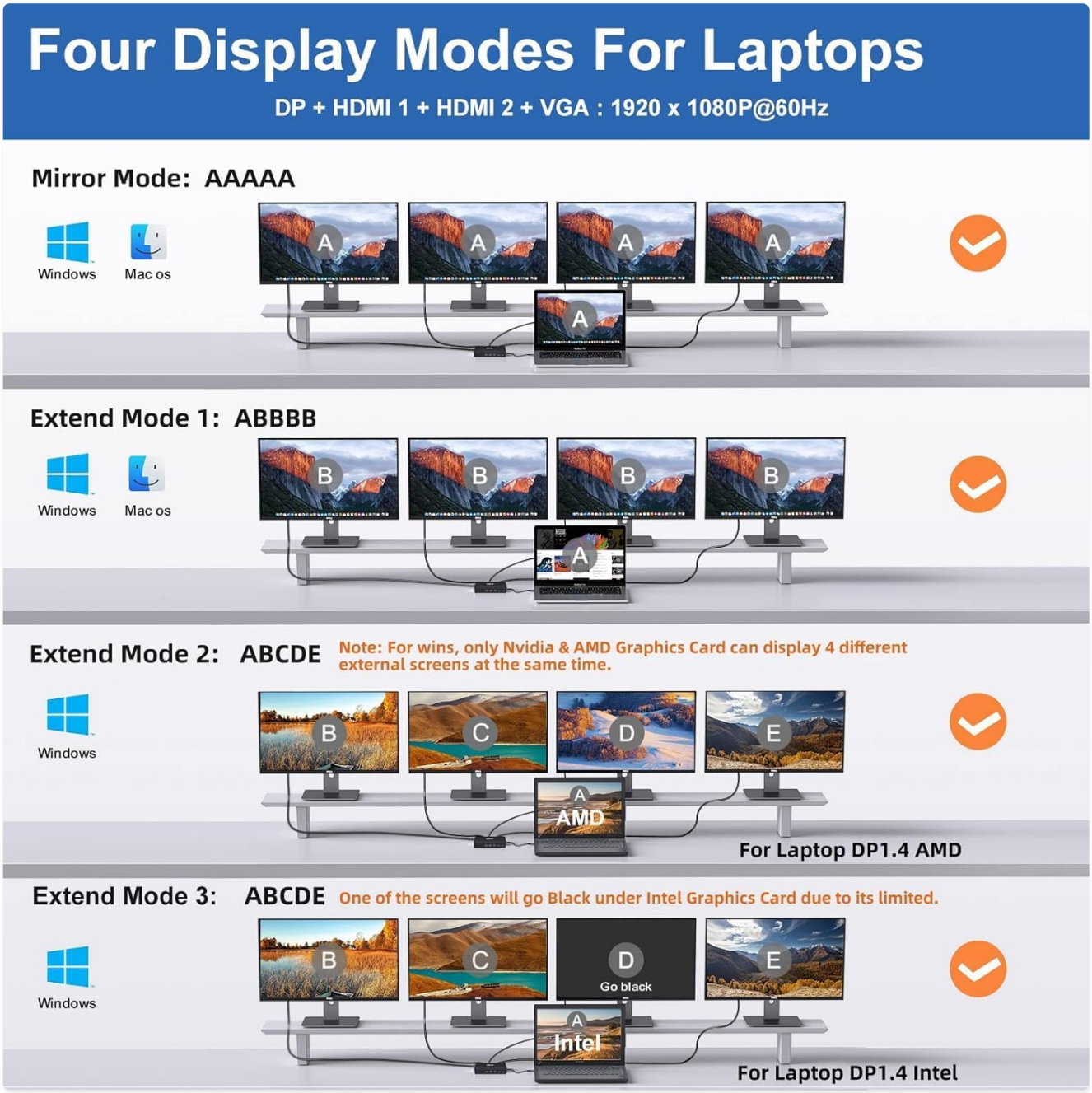


Image 3.1: Visual representation of Mirror Mode (AAAAA) and Extend Modes (ABBBB, ABCDE) for Windows and macOS, illustrating how multiple monitors can be configured.



Image 3.2: Examples of 4K video output configurations for Windows OS (HDMI 1 + HDMI 2, HDMI 1 + HDMI 2 + DP) and Mac OS (HDMI 1 + HDMI 2, HDMI 1 + HDMI 2 + DP).

Display Modes:

- **Mirror Mode:** All connected displays show the same content as your laptop screen.
- **Extend Mode:** Each connected display shows different content, extending your desktop workspace.

Note on Resolution: The final resolution depends on your host device's capabilities. For Windows, only devices supporting DP1.4 can achieve 4K resolution on multiple displays. For Mac OS, the maximum resolution for multiple displays is 4K@60Hz.

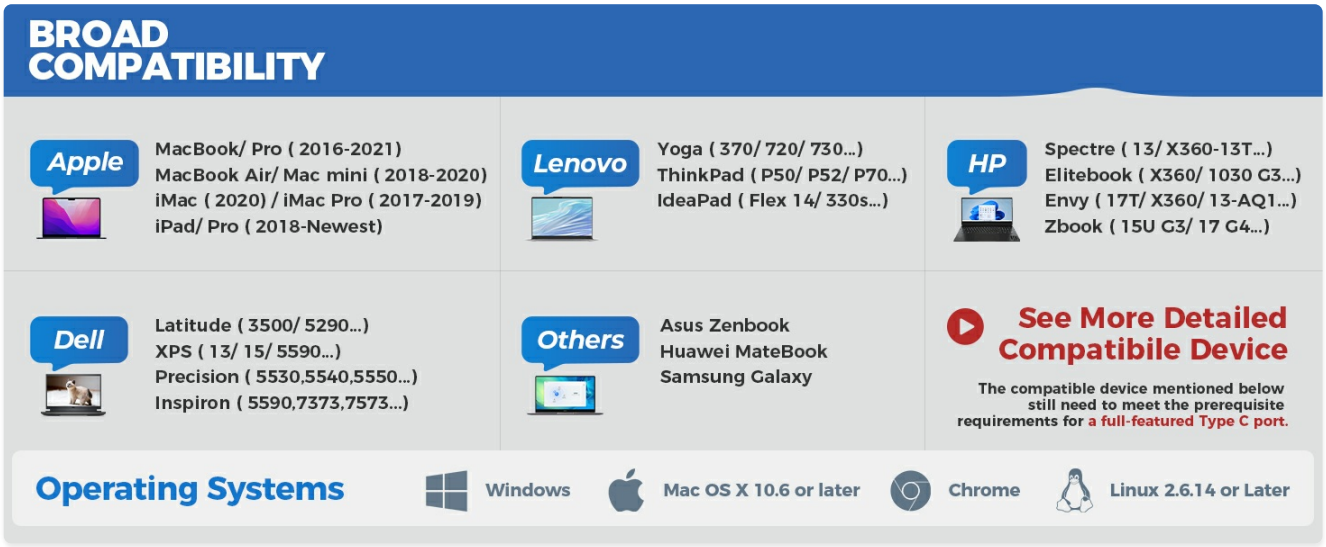


Image 3.3: Comparison of display capabilities for Mac OS (not supporting different screens on multiple monitors) and Windows (DP1.4 and AMD processor laptops supporting up to 4 screens, Intel graphics limited to 3 external displays with one going black).

3.2 Data Transfer

The docking station provides various USB ports for connecting peripherals and transferring data.



Image 3.4: Overview of USB port types and their respective data transfer speeds: USB 2.0 (480Mbps), USB 3.0 (5Gbps), USB 3.1 (10Gbps), and USB-C2 Data Port (10Gbps).

- **USB-C 2 (10Gbps):** For high-speed data transfer.
- **USB-A 3.1 (10Gbps):** For high-speed data transfer.
- **USB-A 3.0 (5Gbps):** For fast data transfer.
- **USB-A 2.0 (480Mbps):** Suitable for keyboards, mice, and other low-bandwidth devices.

3.3 Other Connections

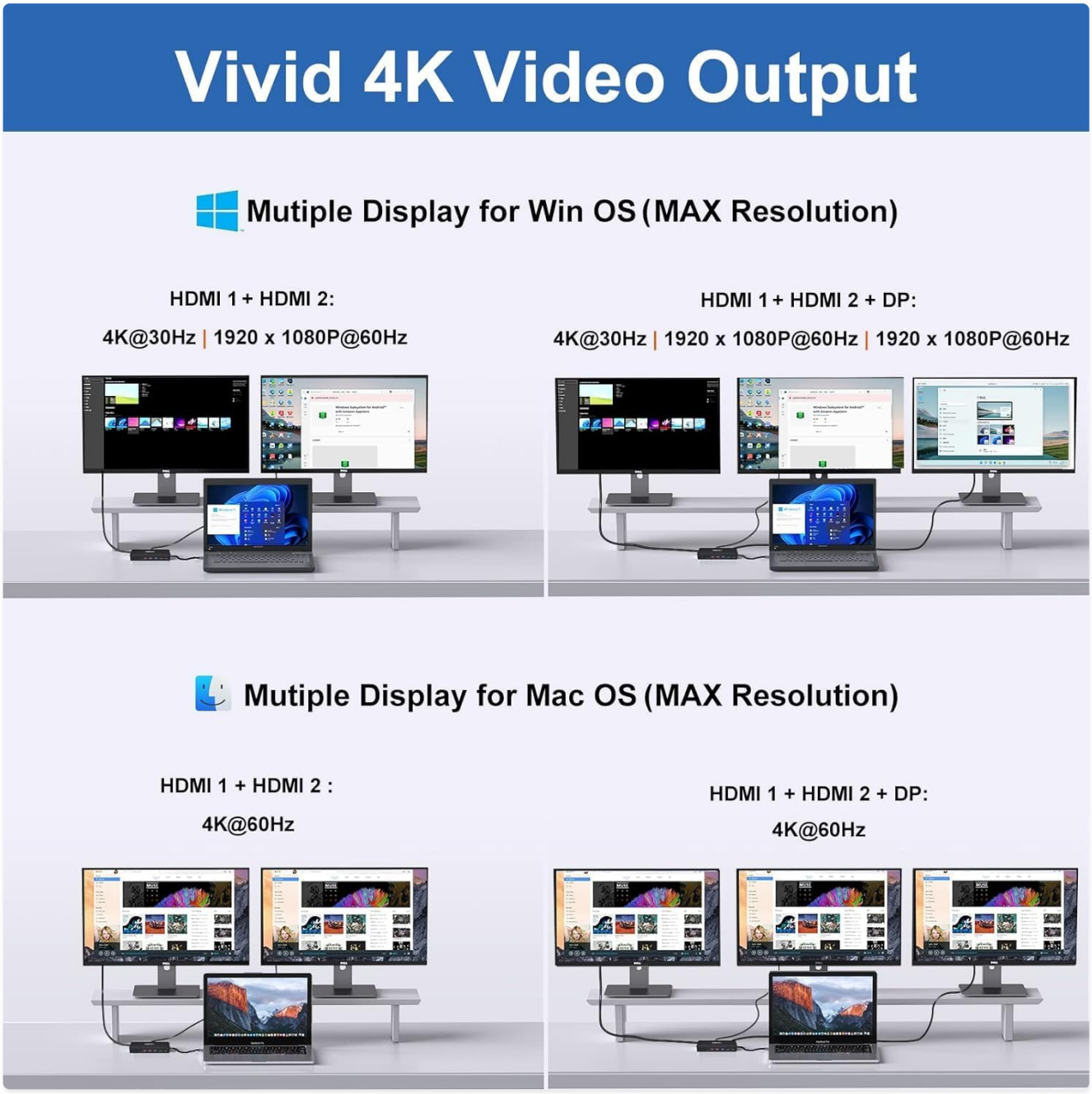


Image 3.5: Illustration of the SD/TF card slots and the RJ45 Gigabit Ethernet port, along with the audio/mic jack.

- **RJ45 Gigabit Ethernet:** Connect an Ethernet cable for a stable and fast wired internet connection (up to 1000Mbps).
- **SD/TF Card Slots:** Insert SD or Micro SD cards for data access. Supports simultaneous reading of two cards.
- **Audio & Mic:** Connect headphones or a microphone using the 3.5mm jack.

4. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the docking station. Avoid liquid cleaners or abrasive materials.
- **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.
- **Ventilation:** Ensure the docking station has adequate ventilation to prevent overheating, especially during

prolonged use with multiple connected devices.

5. Troubleshooting

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

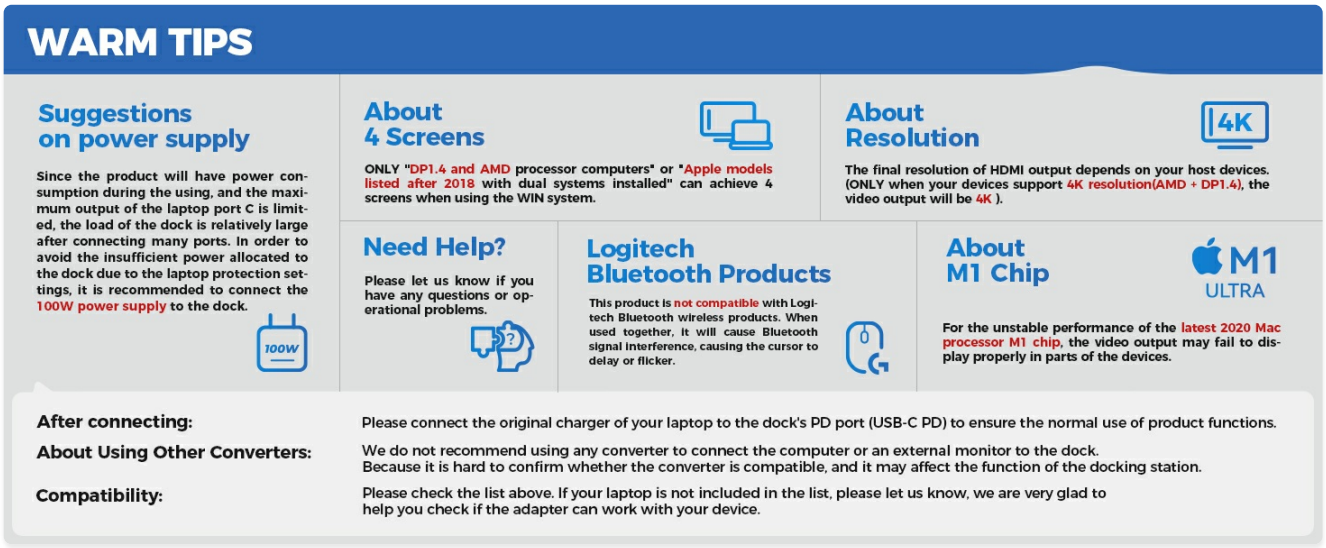


Image 5.1: Important tips regarding power supply, multi-screen support, resolution, M1 chip compatibility, and using other converters.

- **No Display Output / Only One Monitor Working:**
  - **Verify USB-C Port:** Confirm your laptop's USB-C port supports DisplayPort Alternate Mode. Not all USB-C ports support video output.
  - **Power Supply:** Ensure a 100W PD adapter is connected to the docking station's PD3.0 port. Insufficient power can affect display stability.
  - **Cable Check:** Use high-quality HDMI/DP/VGA cables. Try swapping cables or ports.
  - **Laptop Settings:** Check your laptop's display settings (Windows: Display Settings > Detect; macOS: System Settings > Displays) to ensure external monitors are detected and configured correctly.
  - **Driver Updates:** Ensure your laptop's graphics drivers are up to date.
  - **Mac OS Limitations:** Mac OS typically does not support different content on multiple external monitors in extend mode (only mirror or single extended display).
  - **Intel Graphics:** Laptops with Intel Graphics Card (DP1.4) may have one screen go black when attempting to use four external displays due to limitations.
- **Unstable Connection / Device Disconnections:**
  - **Power Supply:** Reiterate the importance of a stable 100W power input to the dock.
  - **Host Connection:** Ensure the USB-C cable connecting the dock to your laptop is securely seated and undamaged.
  - **Overheating:** If the dock feels excessively hot, disconnect it, allow it to cool, and ensure proper ventilation. Overheating can lead to instability.
- **USB Ports Not Working:**
  - **Power:** Confirm the docking station is receiving adequate power.
  - **Reconnection:** Disconnect and reconnect the USB device.
  - **Laptop USB-C Port:** Ensure your laptop's USB-C port supports data transfer.
- **Logitech Bluetooth Products Interference:**

- This product may cause Bluetooth signal interference with Logitech wireless products, potentially causing cursor delay or flicker. Consider using wired peripherals or non-Logitech wireless devices.

- **M1 Chip Compatibility:**
  - For the unstable performance of some M1 chip Mac models, the video output may fail to display properly.

6. Specifications

Feature	Specification
Model	16-in-1 USB C Docking Station
Hardware Interface	USB 3.0 Type C (Host Connection)
Video Output Ports	2 x HDMI, 1 x DisplayPort (DP), 1 x VGA
USB Ports	2 x USB-C (10Gbps, 18W output), 2 x USB-A 3.1 (10Gbps), 1 x USB-A 3.0 (5Gbps), 2 x USB-A 2.0 (480Mbps)
Total USB Ports	7 (2 USB-C, 5 USB-A)
Power Delivery Input	PD3.0 (100W)
Ethernet	RJ45 Gigabit Ethernet (1000Mbps)
Card Reader	SD & Micro SD (supports simultaneous read)
Audio	3.5mm Audio/Mic Jack
Compatible Devices	Thunderbolt 3/4 laptops, various laptop brands with full-function Type C port (MacBook/Dell/HP/Lenovo)
Operating Systems	Windows, Mac OS X 10.6 or later, Chrome OS, Linux 2.6.14 or later
Item Weight	12 ounces
Package Dimensions	8.31 x 4.65 x 2.44 inches

7. Compatibility

The FALWEDI 16-in-1 USB C Docking Station is designed for broad compatibility with various laptops equipped with a **full-function USB-C port**. Please refer to the lists below for common compatible and incompatible devices.

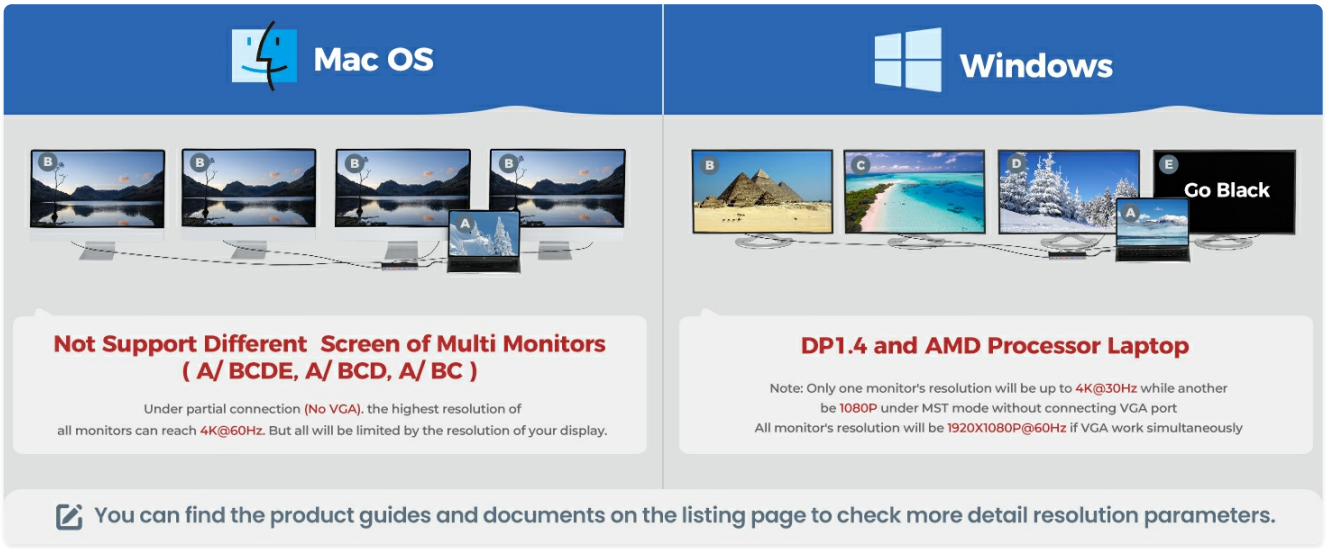


Image 7.1: Overview of broad compatibility with Apple, Lenovo, HP, Dell, and other brands, along with supported operating systems.

7.1 Compatible Devices (Partial List)



Image 7.2: A detailed, though partial, list of compatible laptop models from various brands.

- **Apple:** MacBook/Pro (2016-2021), MacBook Air/Mac mini (2018-2020), iMac (2020)/iMac Pro (2017-2019), iPad Pro (2018-Newest)
- **Lenovo:** Yoga (370/720/730...), ThinkPad (P50/P52/P70...), IdeaPad (Flex 14/330s...), Yoga (900/910/920/930/940/C740/C930), IdeaPad Chromebook Flex 5, ThinkPad (P72/E590/T470/T470s/T480s/T490s)
- **HP:** Spectre (X360/13T-AK000CTO/13T-AF001TU), Elitebook (800 G4/840 G5 series/850 G5/745/830 G6/X2), Zbook/Probook, Spectre X360/13/15/15T
- **Dell:** Latitude (3500/5290...), XPS (13/15/5590...), Precision (5530,5540,5550...), Inspiron (5590,7373,7573...), Latitude (5310/5400/5480,5490), Inspiron (14 or 15 7000 series 2-in-1), XPS (9380/13-9300/13-9365), Precision (7520/7730/7750)
- **Asus:** Zenbook (Flip Q529ZA/UX435/UX434F/UX433FA/UX425EA/S-UX390), Rog GX501
- **Samsung:** Note (20/10/9/8+), Galaxy (S20 ultra/S10+/S10/S9/S8+/Tablet S5e/Tablet New S7/Chromebook/Flex Alpha 2-in-1)
- **Huawei:** MateBook (X Pro/E/X/Mate 10/Mate 10Pro/Mate 20/Mate 20 Pro/Mate 30/Mate 30 Pro/P20/P20 Pro/P30 Pro)
- **Acer:** Aspire 5/Aspire C24-865/Swift 1/Swift 3/Swift 7/Swift X/SPIN 5/SPIN 7/Predator Helios 300

- **Google Chromebook:** Pixel 2016/Pixel 2017/C340-15
- **Microsoft Surface:** Book 2/Go-1943/Laptop 3/Laptop 4/Pro 8/Pro 7

7.2 Incompatibility (Partial List)



Image 7.3: A detailed, though partial, list of incompatible laptop models from various brands.

- **MacBook Air:** (before 2018)
- **MacBook Pro:** 2015
- **iMac:** 2021
- **Asus Vivobook series:** Q547/Q503U/Q526F/L203MA
- **Asus TUF:** 17.3 Gaming Laptop
- **Asus Zenbook:** UX333FN/UX330UA-AH55/Flip 14 UX463FL/Flip 14 UX461FN-DH74T/Q407I
- **Acer Aspire:** E5-575/R5-571T/E5-576G/R15/G3-571
- **Acer Predator:** Helios 300/Swift X 14
- **MSI:** GI65/GF63/GF65 THIN 9SD-252/GERVR 7RF Apache Pro GS73VR 7RG Stealth Pro/GE73 Raider RGB 8RF
- **Microsoft:** Surface Pro 3/Surface Pro 4/Surface Pro 6/Book 3
- **HP Elitebook:** 840 G3/840 G4/820 G4/745 G6/800 G2
- **HP Probook:** 600/640/650 G2/Folio 1020 B&O
- **HP:** Earlier Pavilion series/340S G7/Envy 15/EVGA SC15/7265NGW
- **Dell Inspiron:** 17-5000 series/15-5000 series/14-5410/15-3000/15-3583/17-3793 Business
- **Dell Latitude:** E7270/E7470/E7440/E7450/3520
- **Lenovo:** V330/T570/Y520/Yoga 520/Yoga 710
- **Lenovo ThinkPad:** L490/E580
- **Lenovo IdeaPad:** 3/5/330/L340/S340/130S/Flex-15IWL/Flex-14/Flex-6 14IKB
- **Other:** High-power equipment/USB Super Drive/CD/DVD player

8. Warranty and Support

8.1 Warranty Information

The FALWEDI docking station may come with a 3-year warranty. Please refer to any warranty card included with

your product for specific terms and conditions. Note that the official FALWEDI website (www.myfalwedi.com) may not always be accessible for warranty registration or information.

8.2 Customer Support

If you have any questions, operational problems, or require assistance, please contact FALWEDI customer support through the platform where you purchased the product. Providing your product model and a detailed description of the issue will help expedite support.

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

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