Minthouz MT-UTD46

Minthouz Thunderbolt 4 Docking Station (Model MT-UTD46) Instruction Manual

Product Overview

The Minthouz Thunderbolt 4 Docking Station (Model MT-UTD46) is a versatile 12-in-1 solution designed to expand the connectivity of your laptop. It provides a comprehensive suite of ports for display output, data transfer, networking, and power delivery, enhancing productivity for both Windows and macOS users.



Image: Front and rear view of the Minthouz Thunderbolt 4 Docking Station, highlighting all available ports and their functions.

Key Features:

- **12-in-1 Connectivity:** Includes Thunderbolt 4, HDMI, USB-C, USB-A, 2.5G Ethernet, and SD/TF card slots.
- **High-Resolution Display Support:** Supports single 8K@60Hz or triple 4K@60Hz displays for Windows, and single/dual 4K@60Hz for Mac (M1/M2/M3 Pro/Max).
- **Fast Data Transfer:** Thunderbolt 4 (40Gbps), USB-C (10Gbps), USB-A (10Gbps/5Gbps), and SD/TF card slots (312MB/s).
- **Efficient Power Delivery:** Provides up to 96W to your laptop and charges other devices via USB-C (30W) and USB-A (15W).
- **Universal Compatibility:** Compatible with Windows 10/11 and macOS 11+ systems with Thunderbolt 3/4 or full-featured USB-C/USB4 ports.

What's In The Box



Image: The Minthouz Thunderbolt 4 Docking Station and its included accessories laid out.

Upon opening the package, please verify that all the following items are included:

1. Minthouz Thunderbolt 4 Docking Station (Model MT-UTD46)
2. 0.8M Thunderbolt 4 Cable
3. 160W Power Adapter
4. AC Power Cable
5. Cable Holder

Setup Instructions

Follow these steps to set up your Minthouz Thunderbolt 4 Docking Station:

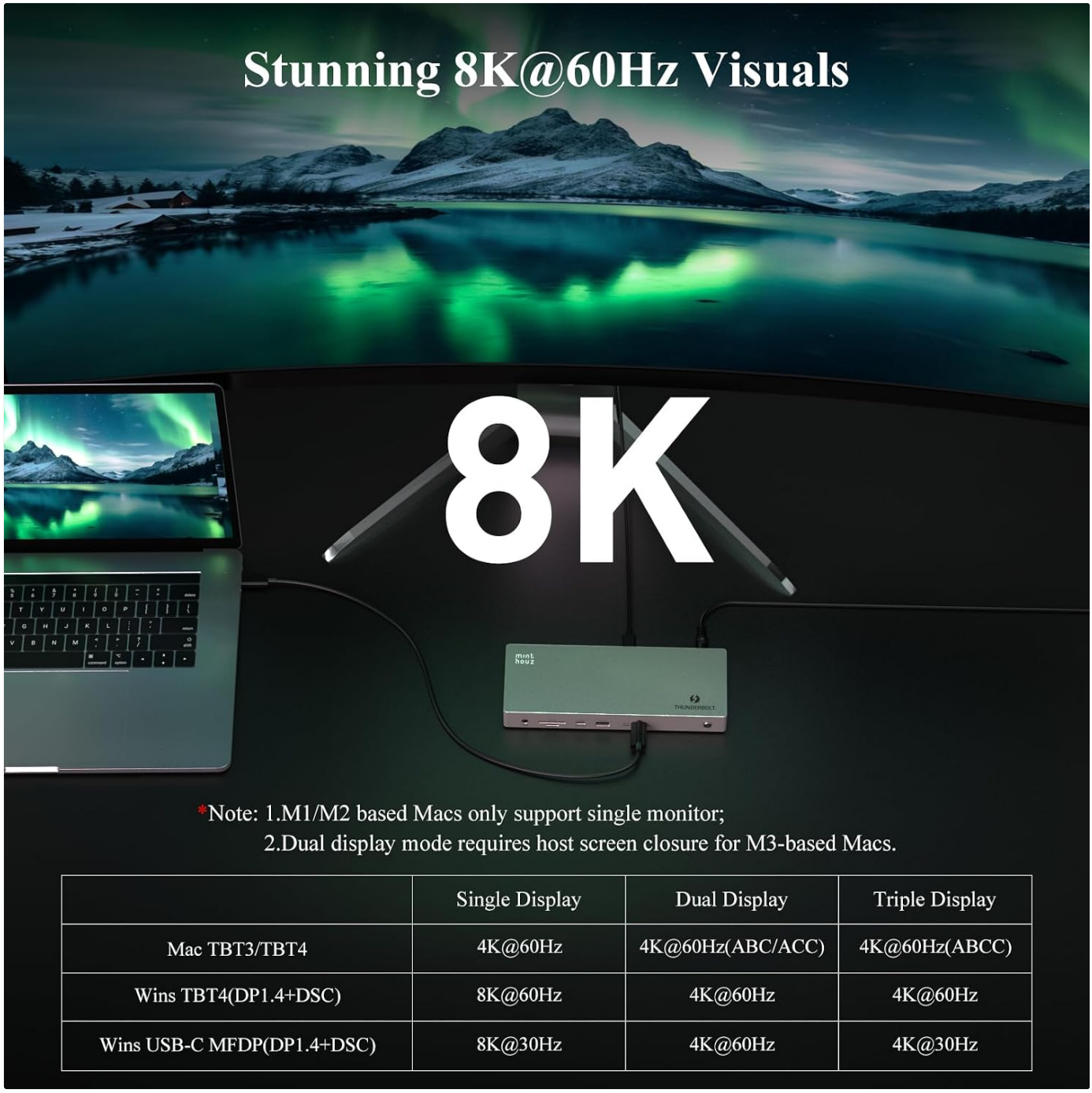
1. **Connect Power:** Connect the 160W power adapter to the "DC IN" port on the docking station and then plug the AC power cable into a wall outlet.
2. **Connect to Host Device:** Use the provided Thunderbolt 4 cable to connect the "Thunderbolt 4 Host" port on the docking station to a Thunderbolt 3, Thunderbolt 4, or full-featured USB-C/USB4 port on your laptop.
3. **Connect Displays:**
   - For HDMI displays, connect your monitors to the "8K HDMI" ports on the docking station.
   - For additional Thunderbolt displays, use the downstream "Thunderbolt 4 Port" on the docking station.
4. **Connect Peripherals:** Plug in your USB devices (keyboard, mouse, external drives) into the available USB-A and USB-C ports. Connect your Ethernet cable to the "RJ45 (2500Mbps)" port for wired network access. Insert SD or MicroSD cards into the respective slots.
5. **Audio Connection:** Connect headphones or speakers to the "4-Pole Phone Jack" if desired.

The docking station should be automatically recognized by your operating system. If not, ensure your laptop's drivers are up to date.

Operating Instructions

Display Configuration

The Minthouz Thunderbolt 4 Dock supports various display configurations depending on your host device and operating system.



	Single Display	Dual Display	Triple Display
Mac TBT3/TBT4	4K@60Hz	4K@60Hz(ABC/ACC)	4K@60Hz(ABCC)
Wins TBT4(DP1.4+DSC)	8K@60Hz	4K@60Hz	4K@60Hz
Wins USB-C MFDP(DP1.4+DSC)	8K@30Hz	4K@60Hz	4K@30Hz

Image: A laptop connected to a single 8K monitor, demonstrating the high-resolution display capability of the dock.

- **Windows (Thunderbolt 4 with DP1.4+DSC):** Supports single 8K@60Hz or triple 4K@60Hz displays.
- **Windows (USB-C MFDP with DP1.4+DSC):** Supports single 8K@30Hz or triple 4K@30Hz displays.
- **Mac (M1/M2 based):** Supports a single 4K@60Hz display.
- **Mac (M3/M2/M1 Pro/Max based):** Supports dual 4K@60Hz displays. For dual display mode on M3 Macs, the host screen may need to be closed.
- **Mac (General):** When using two HDMI ports for multiple displays on Mac, the content will be mirrored.



Image: Visual representation of display configurations for Windows (triple extended displays) and macOS (triple displays with mirrored content on HDMI ports).

To configure your displays, access your operating system's display settings (e.g., "Display Settings" on Windows, "System Settings > Displays" on macOS) to arrange, extend, or mirror your screens.

Data Transfer

The dock provides high-speed data transfer capabilities:

- **Thunderbolt 4 Port:** Up to 40Gbps for ultra-fast data transfer with compatible Thunderbolt devices.
- **USB-C (10Gbps) & USB-A (10Gbps):** Ideal for connecting high-speed external storage devices.
- **USB-A (5Gbps):** Suitable for standard USB peripherals.
- **SD/TF Card Slots:** Supports data transfer speeds up to 312MB/s for quick access to media files.

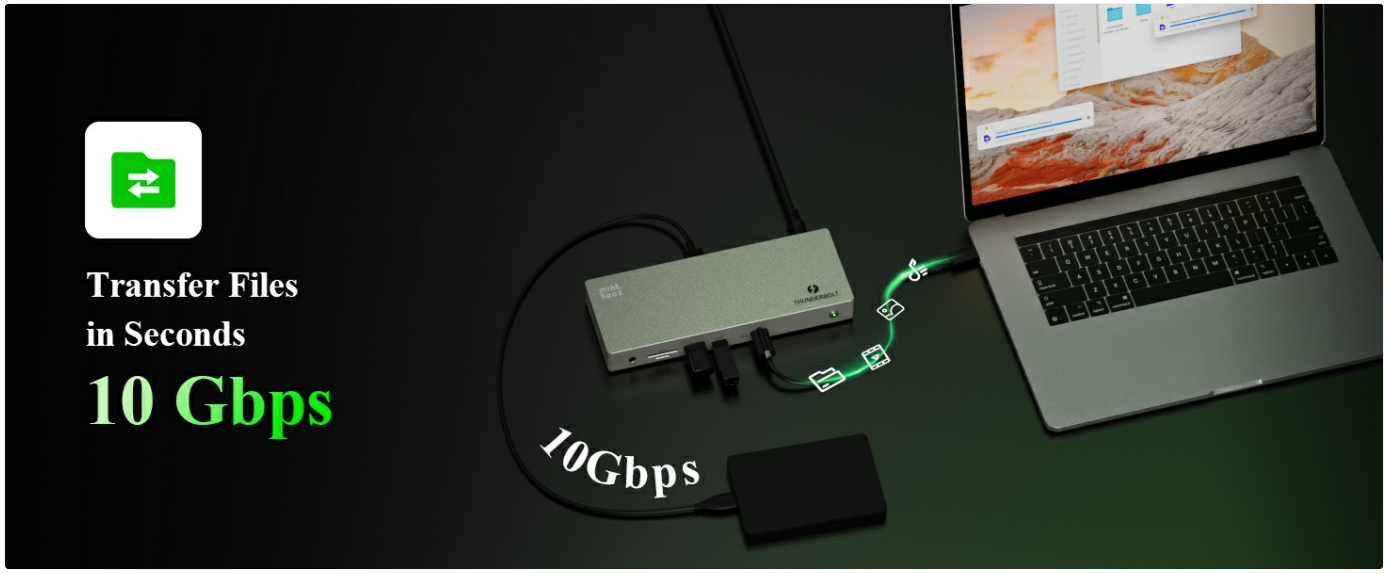


Image: Illustrates the 40Gbps data transfer speed of the Thunderbolt 4 port, capable of syncing large files rapidly.

Network Connection

Connect an Ethernet cable to the 2.5G Ethernet port for a stable and high-speed wired network connection, offering superior performance compared to standard Gigabit Ethernet or Wi-Fi.



Image: The docking station connected to an Ethernet cable, demonstrating 2.5G wired network capability.

Power Delivery

The dock delivers up to 96W of power to your connected laptop via the Thunderbolt 4 host port, ensuring your device remains charged during use. Additionally, the USB-C port provides 30W and a USB-A port provides 15W for charging other mobile devices.



Image: The docking station providing 96W power to a laptop, 30W to a tablet, and 15W to a smartphone.

Audio Connection

The 4-Pole Phone Jack supports both audio output and microphone input, allowing you to connect a headset for communication or external speakers for audio playback.

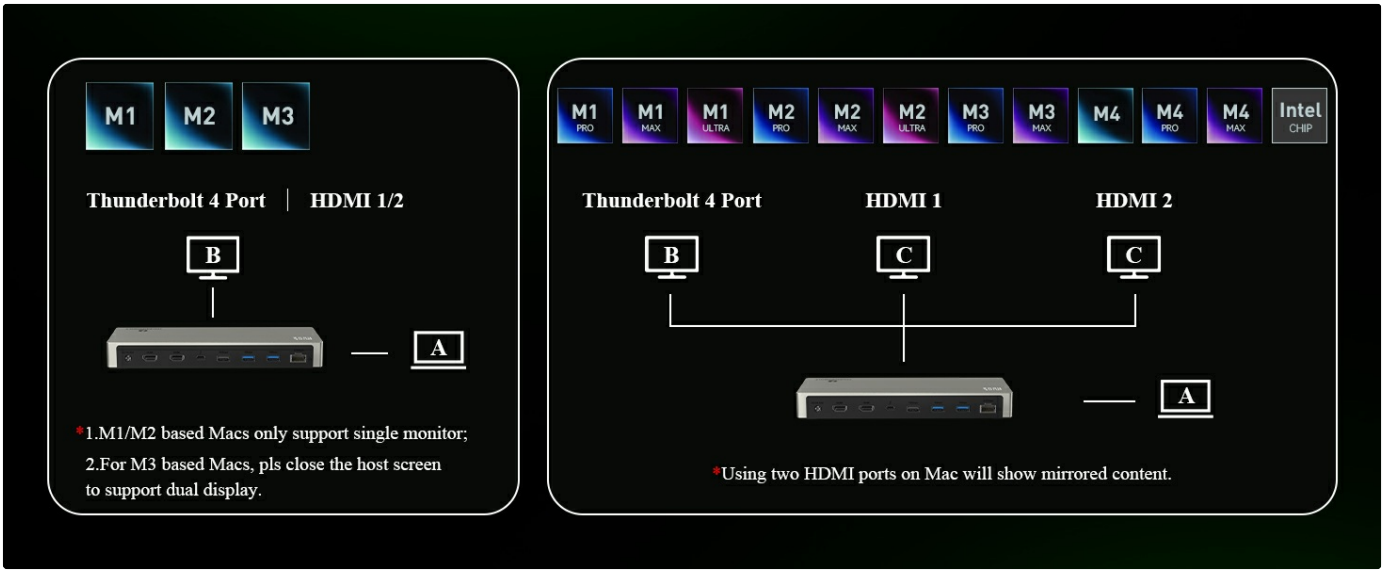


Image: Headphones connected to the 4-Pole Phone Jack on the docking station, indicating audio functionality.

Compatibility

The Minthouz Thunderbolt 4 Docking Station is designed for broad compatibility with modern laptops and operating systems.

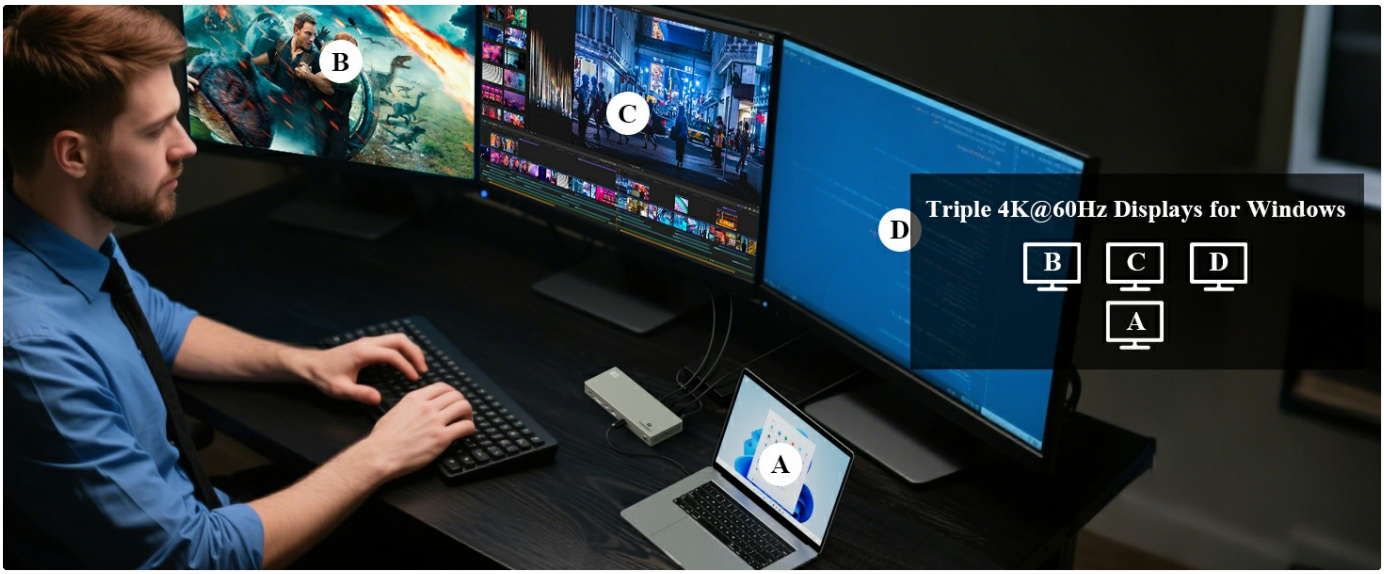


Image: A diagram illustrating the universal compatibility of the dock with various Windows and Mac host devices and operating systems.

- **Operating Systems:** Windows 10/11 (with Thunderbolt 4 port) and macOS 11 or later (with Thunderbolt 3/4 or USB4 port).
- **Host Devices:** Supports full-featured USB-C, USB4, and Thunderbolt 3/4 systems, including:
  - Apple MacBook, Mac Studio (M1/M2/M3, M1 Pro/Max, M2 Pro/Max, M3 Pro/Max)
  - Intel-based Thunderbolt 3/4 laptops (late 2016+)
  - Laptops with full-featured, standards-compliant USB-C ports (e.g., Dell, HP, Lenovo, Asus, etc.)

Specifications

Feature	Detail
Model Number	MT-UTD46

Feature	Detail
Hardware Interface	Thunderbolt 4
Total Ports	12
Thunderbolt 4 Host Port	1x (40Gbps, 96W Power Delivery)
Thunderbolt 4 Downstream Port	1x (8K, 40Gbps, 15W)
HDMI Ports	2x (8K@60Hz max)
USB-C Ports	1x (10Gbps, 30W PD)
USB-A Ports	2x (10Gbps), 1x (5Gbps)
Ethernet Port	1x (2.5G / 2500Mbps)
Card Reader	SD/TF (312MB/s)
Audio Jack	1x (4-Pole Phone Jack)
Power Adapter Input	160W
Dimensions (L x W x H)	8.54" x 3.2" x 1.15"
Weight	1.41 kg
Compatible OS	Windows 10/11, macOS 11+

Troubleshooting

If you encounter issues with your Minthouz Thunderbolt 4 Docking Station, please refer to the following common solutions:

1. **No Display Output:**
    - Ensure the docking station is powered on and the power adapter is securely connected.
    - Verify that the Thunderbolt 4 cable is firmly connected to both the dock and your laptop's Thunderbolt/USB-C port.
    - Check that display cables (HDMI) are securely connected to both the dock and your monitors.
    - Confirm your laptop's display settings are configured to extend or duplicate the display.
    - Update your laptop's graphics drivers and Thunderbolt/USB-C port drivers to the latest version.
    - For Mac M1/M2 users, only a single external display is supported. For M3 Macs, closing the host screen may be required for dual display.
2. **Network (2.5G Ethernet) Issues:**
    - Ensure the Ethernet cable is properly connected to the dock and your router/modem.
    - Check your network settings on your computer.
    - It may be necessary to install or update the Realtek Ethernet driver for optimal 2.5G performance. Visit the Minthouz support website for driver downloads.
3. **USB Devices Not Recognized:**
    - Try connecting the USB device to a different port on the dock.
    - Ensure the device is properly powered if it requires external power.

- Update your laptop's USB drivers.

4. **Charging Issues:**
   - Verify the 160W power adapter is correctly connected and functioning.
   - Ensure your laptop supports power delivery via its Thunderbolt/USB-C port.
   - Note that the dock provides up to 96W to the host laptop. Some high-power laptops may still require their original charger for full-speed charging during heavy load.

Maintenance

To ensure the longevity and optimal performance of your Minthouz Thunderbolt 4 Docking Station, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry, anti-static cloth to clean the exterior of the docking station. Avoid using liquid cleaners or aerosols, as they may damage the device.
- **Ventilation:** Ensure the docking station is placed in a well-ventilated area to prevent overheating. Do not block the ventilation slots.
- **Storage:** When not in use for extended periods, store the docking station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Avoid bending or twisting cables excessively, especially the Thunderbolt 4 cable, to prevent damage.

Warranty and Support

The Minthouz Thunderbolt 4 Docking Station (Model MT-UTD46) comes with a**1-year warranty** from the date of purchase.

For technical support, warranty claims, or further assistance, please contact Minthouz customer service through their official website or the retailer where the product was purchased. Please have your model number (MT-UTD46) and proof of purchase ready when contacting support.

For driver updates, especially for the 2.5G Ethernet port, please refer to the official Minthouz support resources.

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