Cable Matters

Thunderbolt™ 5 Docking Station

Model 107064

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1. INTRODUCTION

1.1 Introduction

Thank you for your purchase from Cable Matters® Inc., the 'Reliable Connectivity' company. This User Manual provides an overview of the features and installation of your new:

Thunderbolt™ 5 Docking Station

Please read these instructions carefully before connecting, operating or configuring this product. Please keep this manual for future reference.

Contact **support@cablematters.com** for questions or product support.

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1.3 FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device must not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

2. PRODUCT OVERVIEW

2.1 Package Contents

Please check that the following items are contained in the package:

> Thunderbolt™ 5 Docking Station
> Thunderbolt™ 5 80/120Gbps USB-C® Cable
> AC Power Adapter
> User Manual (available in a PDF from cablematters.com)

2.2 Product Description

The Cable Matters® Thunderbolt™ 5 Docking Station supports three Thunderbolt™ 5 Downstream Ports , USB peripherals, 2.5 Gigabit Ethernet networking, SD cards and up to 140W power delivery for your computer over a single Thunderbolt 5 80/120Gbps cable. This innovative docking station uses the Intel® Goshen Ridge chipset for backward compatibility with a computer with only USB-C® connectivity.

2.3 Product Features

- Connects to any Thunderbolt 5 or USB-C® computer port and provides up to 140W of Power Delivery charging to the host computer
- Supports up to three 8K monitors at 60Hz in Thunderbolt 5 Mode（with DSC enabled）. Support two monitors up to 8K@120Hz each (see details in on page 4)
- Provides 3xThunderbolt 80/120Gbps ports , 2x USB-A 10Gbps ports, 1x USB-A 5Gbps ports with 5V@1.5A BC1.2 charging support.
- Connect USB peripherals with three Thunderbolt 5/USB-C ports and three USB-A ports
- Audio support for a speaker or headset with a microphone
- Connect to a wired 2.5 Gigabit Ethernet network
- Supports microSD or SD cards at 300MB/s speeds

2.4 System Requirements

Computer Compatibility	Thunderbolt 4/5 host (Thunderbolt mode)
	USB-C host (MFDP mode), USB4, USB3.2 Gen1/Gen2
Note:	Computers with ChromeOS are NOT compatible
OS Compatibility	macOS 10.13 and up
	Windows 10 and up
External Displays	Thunderbolt monitors or USB-C to HDMI/DP cables
Ethernet Networking	LAN or router with RJ45 and an Ethernet cable (Cat 6 for 2.5 Gigabit Ethernet)
USB Connectivity	Compatible USB-A devices and cables. To achieve 10Gpbs speed on 10Gbps ports, 10Gbps-compatible devices and cables are required
	Compatible Thunderbolt devices and cables. To achieve 80/120Gbps speed on Thunderbolt ports, 80/120Gbps-compatible devices and cables are required
SD Cards	Compatible microSD or SD Card
Audio Port	3.5mm TRS or TRRS headset or microphone cable
Power Port	Use only the power adapter included with the dock

3. Connection and Operating Instructions

3.1 Installation Checklist

✓ Computers with Thunderbolt 5 and USB-C ports do not need to download any additional driver

✓ Check that your Thunderbolt port is wired for 80/120Gbps to support three 8K@60hz monitors

✓ The max resolutions depend on host capabilities

✓ If you want the network port on this dock to reach a speed of 2.5Gbps, it is crucial to ensure that your router's Ethernet port supports 2.5Gbps

✓ Use the included Thunderbolt 5 cable to connect to the Dock for the best performance
>   USB-C only computers must use a passive Thunderbolt 5 cable up to 1m
>   (Cable Matters Model 107062)

✓ MacOS computers do not require any additional external software

✓ For additional troubleshooting information, go to **kb.cablematters.com** and search for 107064.

3.2 USB-C or Thunderbolt 5 External Display Chart

Thunderbolt 5 hosts support three 8K displays. The display support of USB-C hosts depends on the DP Alt Mode and Display Stream Compression (DSC) support of the host.

Windows 11 (23H2 or later)			
Thunderbolt 5 *	Up to 8K@144Hz	Up to 8K@120Hz	Up to 8K@60Hz/4K@144Hz
Thunderbolt 4 / USB 4 *	Up to 8K@60Hz	Up to 4K@120Hz	X
Thunderbolt 3	X	X	X
USB-C Alt Mode	Up to 4K@60Hz	X	X
macOS (14.5 or later)			
M4 Base/Pro/Max	Up to 8K@60Hz	Up to 6K@60Hz	X
M1/M2/M3 Pro and Max	Up to 6K@60Hz	Up to 6K@60Hz	X
M1/M2/M3 Base	Up to 4K@60Hz (M1/M2) / Up to 6K@60Hz (M3)	X	X
Note: *Support for Display Stream Compression (DSC) is required to achieve the maximum resolution.			

3.3 Front Panel Diagram
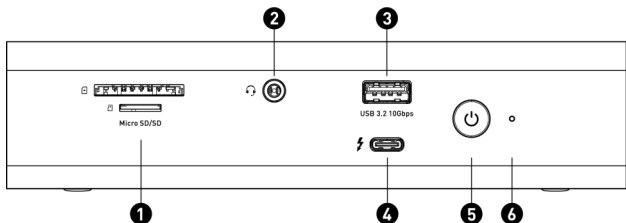
1) SD and microSD card slots
2) 3.5mm TRRS combo headphones/mic port
3) USB-A 3.2 Gen2 10Gbps port
4) Thunderbolt 5 80/120Gbps / USB4, USB3.2 Gen1/Gen2 ports with PD3.0 5V3A charging support
5) Power button
6) Power LED

3.4 Rear Panel Diagram
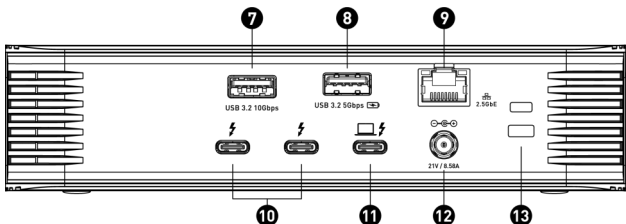
7) USB-A 3.2 Gen2 10Gbps port
8) USB-A 3.2 Gen1 5Gbps port with BC1.2 5V1.5A charging support
9) 2.5 Gigabit Ethernet RJ45 connector
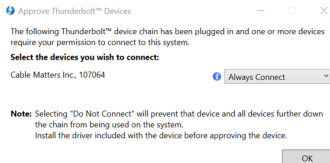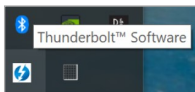10) Thunderbolt 5 80/120Gbps / USB4, USB3.2 Gen1/Gen2 ports with PD3.0 5V3A charging support
11) Thunderbolt 5 80/120Gbps / USB-C host connector port with 140W charging for computer
12) DC power port
13) K-Lock slot

3.5 Connecting the Docking Station

1) Connect the dock to an AC power outlet
2) Press the power button to power on the dock
3) Check the power LED is lit
4) Connect the included cable to the Thunderbolt 5 or USB-C port on the computer
5) A computer equipped with Power Delivery should indicate that it is charging
6) Wait up to 20 seconds while USB drivers are automatically installed
7) Windows may request the user to approve the dock
8) Check the status of connected Thunderbolt devices from the Thunderbolt software in Windows

Approve Thunderbolt™ Devices

The following Thunderbolt™ device chain has been plugged in and one or more devices require your permission to connect to this system.

Select the devices you wish to connect:

Cable Matters Inc, 107064   ℹ️ Always Connect ▼

Note: Selecting "Do Not Connect" will prevent that device and all devices further down the chain from being used on the system.
Install the driver included with the device before approving the device.

OK

Troubleshooting Tips

- Reboot the computer and check that the dock has power
- Check with the computer manufacturer for BIOS updates and latest graphics drivers for Windows
- Avoid rapidly disconnecting and reconnecting the dock from your computer
- Connect the Thunderbolt 5 cable to the host port located on the rear panel of the dock, rather than the down-stream facing Thunderbolt port on the front panel of the dock
- Connect the dock to your computer's Thunderbolt 5 port or USB-C port with video feature, rather than the charging port or a port that only supports data transfer.

3.6 Connecting to a LAN or Router

1) Connect an RJ45 patch cable to the dock (Cat 6 recommended for 2.5 Gigabit Ethernet)
2) Connect the patch cable to a LAN or router port
3) Check the documentation of your LAN or router to configure network access
4) Link and Status LEDs should blink to indicate a live connection
   2.5G mode: LED1 blinks yellow, LED2 is solid orange
   10M/100M/1G mode: LED1 blinks yellow, LED2 is solid green
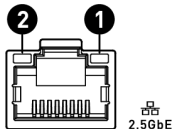
Troubleshooting Tips

- Check the LED indicators to determine the current connection speed.
- Test by turning off all wireless connections on the computer
- Test the patch cable with a different device or try another Ethernet port
- Maximum connection speed is limited by the network equipment and the Internet speed
- Download the additional driver at: www.cablematters.com/dl/107064

3.7 Connecting an Audio Device

1) Connect a headset or microphone to the 3.5mm audio port (3 pole TRS or 4 pole TRRS)
2) Configure the audio settings from the computer

Windows 10 and up

1) *Device Manager* > Click on *Sound, video and game controllers*> *Realtek USB2.0 Audio*
2) Click on *Audio inputs and output* > Select *Microphone* or *Speakers*

macOS 10.13 and up

1) System Information > Hardware > USB > USB 3.0 Bus > *Realtek USB2.0 Audio*
2) Select the audio in *System Preferences* > *Sound* > Select the *Output* or *Input*

3.8 Connecting External Monitors

1) Connect the monitor to the Thunderbolt port via a USB-C cable or a USB-C to HDMI/DP cable
2) Select the desired video input from each monitor's menu
3) Select the audio output from the computer, if needed

Windows 10 and up: Press *Windows Logo + P* or launch the *Intel HD Graphics Control Panel* from the search bar

macOS 10.13 and up: Select *System Preferences* > *Displays* > Click the *Arrangement* tab

Troubleshooting Tips

- Test the video cables with other equipment
- Check that your computer supports 3 external monitors
- Check the resolution chart on Page 4 to verify display and resolution host device support
- Base-level M1 Mac computers support only one extended monitor, while the Mac with the M1 Pro chip can support up to two external displays, and the Mac with the M1 Max chip can support up to three external displays.
- To connect multiple monitors, it is recommended to visit the official website of Intel and update your graphics card driver to the latest version. This will ensure compatibility and optimal performance
- If you want to connect three 8K@60Hz monitors, it is recommended to use monitors with the highest resolution that supports 8K@60Hz, make sure your USB-C to HDMI2.1 cable support 8K60hz.

3.9 Connecting a USB-A or USB-C Device

FRONT PANEL

USB 3.2 10Gbps

1) Connect a USB-A or Thunderbolt/USB-C device or cable to the dock
2) The device should be recognized after downloading any needed USB drivers
3) The USB3.2 port supports data transfer up to 10Gbps. The Thunderbolt 5 port supports up to 80Gbps data transfer and 5V3A PD3.0 charging.
4) Use Safely Remove or Eject when disconnecting, if needed

REAR PANEL

USB 3.2 10Gbps   USB 3.2 5Gbps

1) Connect a USB-A or Thunderbolt/USB-C device or cable to the Dock
2) The device should be recognized after downloading any needed USB Drivers
3) The USB3.2 10Gbps port supports data transfer up to 10Gbps. The USB3.2 5Gbps port supports data transfer up to 5Gbps and 5V1.5A BC1.2 charging. The Thunderbolt 5 port supports up to 80Gbps data transfer and 5V3A PD3.0 charging.
4) Use *Safely Remove* or *Eject* when disconnecting, if needed

Troubleshooting Tips

- A USB external hard drive may require more power than the USB port provides. If the external hard drive has an external power adapter, connect it to the hard drive
- Test the USB cable or device with a different port
- Data transfer speed is limited by the Thunderbolt 5 or USB-C host port and the connected device

3.10 Connecting SD Cards

Micro SD/SD

1) Connect an SD card to the SD card slot, and/or a microSD card to the microSD card slot
2) The card should be recognized automatically
3) Data transfer up to 300MB/s is supported
4) Use *Safely Remove* or *Eject* before removing SD cards

Troubleshooting Tips

- Make sure the card is formatted for use. Try backing up data and reformatting a new or used card
- Test the card in another device
- Data transfer speed is limited by the Thunderbolt 5 or USB-C host port, connected devices, and card type

4. THUNDERBOLT SHARE INSTRUCTIONS

This Thunderbolt 5 Docking Station supports Thunderbolt Share, an innovative software application from Intel that enables fast and seamless Windows PC-to-PC connectivity.

Requirements

Both computers must be running Windows 10/11

Both computers must have Intel Graphics driver version 0.101.4826 (or higher)

Both computers must be equipped with Thunderbolt™ 4/5 ports

Two Thunderbolt 4/5 cables are required to connect each PC to the docking station

One cable is included with the dock. A second cable needs to be purchased separately. We recommend Cable Matters Model 107062

Instructions:

Download and install Thunderbolt™ Share on both PCs. You can download it from https://www.cablematters.com/downloads under SKU 107064

Use the included Thunderbolt 5 cable to connect PC "A" to the Thunderbolt 5 host port on the Cable Matters Thunderbolt 5 Docking Station

Use an additional Thunderbolt 4/5 cable to connect PC "B" to one of the downstream ports on the Cable Matters Thunderbolt 5 docking station

The Thunderbolt Share application will automatically form a connection between the two PCs. You can then start a screen sharing or file sharing session using Thunderbolt Share.

Thunderbolt™ Share
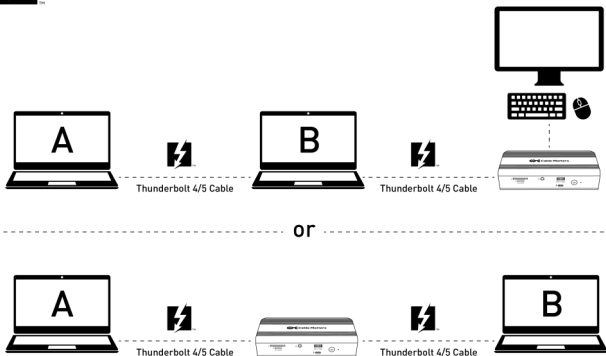
5. TECHNICAL SPECIFICATIONS

Thunderbolt 5 /USB-C (host)	Thunderbolt 5 80/120 Gbps / USB-C
Included Host Cable	Thunderbolt 5 80/120 Gbps passive cable
2.5 Gigabit Ethernet Network Port	RJ45
Thunderbolt 5(front panel)	1x Thunderbolt 80/120 Gbps with 5V3A PD3.0 charging
Thunderbolt 5(rear panel)	2x Thunderbolt 80/120 Gbps with 5V3A PD3.0 charging
USB-A 3.2 (front panel)	1x USB-A 3.2 10Gbps for data transfer only
USB-A 3.2 (rear panel)	1x USB-A 3.2 10Gbps for data transfer only
USB-A 3.2 (rear panel)	1x USB-A 3.2 5Gbps with 5V1.5A BC1.2 charging
Displays	3x Thunderbolt 5
Audio	3.5mm TRRS Combo Audio Port / 2 Ch audio
SD Card	1x microSD card slot, 1x SD card slot—300MB/s
Power	Input: AC 100/240V Output: 21V/8.58A US Standard
LED	White
Operation/Storage Temperature	32-104°F / -4-158°F
OS Support	Windows 10 and up 64-bit, macOS 10.13 and up
Maximum Resolution Support	Up to 7680 x 4320 @ 144Hz
Dock Housing (LxWxH)	6.93 x 3.03 x 1.65 in (176 x 77 x 42 mm)
Dock Weight	24.7 oz (700g)
Compliance	C E, FCC, RoHS
Warranty	Limited One-Year

Note: Specifications are subject to change without notice

6. WARRANTY & SUPPORT INFORMATION

6.1 Customer Support and Contact Information

Cable Matters offers lifetime technical support as an integral part of our commitment to provide industry leading solutions. Contact us with any questions at **support@cablematters.com.**

6.2 Warranty Information

This product is backed by a limited one-year warranty. The warranty covers parts and labor costs only. Cable Matters does not warrant its products from defects or damages arising from misuse, abuse, or normal wear.

6.3 Limitation of Liability

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