



Hybrid Thunderbolt™ 3 Docking Station
with 96W Power Delivery

Model 107044



User Manual

Download the user manual at:
www.cablematters.com/dl/107044

support@cablematters.com

Table of Contents

1. INTRODUCTION.....	1
1.1 Introduction	
1.2 Copyright and Trademarks	
1.3 FCC Compliance Statement	
2. PRODUCT OVERVIEW	
2.1 Package Contents	
2.2 Product Description	2
2.3 Product Features	
2.4 Installation Checklist	
3. CONNECTION AND OPERATION INSTRUCTIONS	3
3.1 Installation Checklist	
3.2 USB-C or Thunderbolt 3 External Display Chart	
3.3 Front Panel Diagram	4
3.4 Rear Panel Diagram	
3.5 Connecting the Docking Station	5
3.6 Connecting to a LAN or Router	
3.7 Connecting an Audio Device	6
3.8 Connecting External Monitors	
3.9 Connecting a USB-A or USB-C Device.....	7
3.10 Connecting SD Cards	
4. TECHNICAL SPECIFICATIONS.....	8
5. WARRANTY AND SUPPORT	
5.1 Customer Support and Contact Information	
5.2 Warranty Information	
5.3 Limitations of Liability	

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:

Hybrid Thunderbolt™ 3 Docking Station with 96W Power Delivery

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.

1.2 Copyright and Trademarks

Specifications are subject to change without notice. Cable Matters is a registered trademark or trademark of Cable Matters Inc. All rights reserved. All other trademarks are the property of their respective owners.

Chrome and related marks and logos are trademarks of Google LLC.

DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.

The terms HDMI®, HDMI® High-Definition Multimedia Interface, and the HDMI® logo are trademarks or registered trademarks of HDMI® Licensing Administrator, Inc.

Intel® is a trademark of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

macOS® is a trademark of Apple Inc., registered in the U.S. and other countries. Thunderbolt and the Thunderbolt Logo are trademarks of Intel Corporation in the U.S. and/or other countries.

USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum.

Windows® is a registered trademark of Microsoft Corporation in the U.S. and other countries.

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:

Hybrid Thunderbolt™ 3 Docking Station with 96W Power Delivery

Thunderbolt™ 3 40Gbps USB-C® Cable

AC Power Adapter

User Manual (available in a PDF from cablematters.com)

2.2 Product Description

The Cable Matters® Hybrid Thunderbolt™ 3 Docking Station with 96W Power Delivery supports two 4K DisplayPort™ or HDMI® monitors, USB peripherals, Gigabit Ethernet networking, and SD cards over a single Thunderbolt 3 40 Gbps cable. This innovative docking station uses the Intel® Titan Ridge chipset for compatibility with a computer with only USB-C® connectivity.

2.3 Product Features

- Connects to any Thunderbolt 3 or USB-C® computer port and provides up to 96W of Power Delivery charging to the host computer
- Supports up to two 4K monitors at 60Hz in Thunderbolt 3 Mode. Connect up to two DisplayPort, two HDMI, or one DisplayPort and one HDMI monitor
- Provides 5x USB-A 5 Gbps ports, 1x USB-A 10Gbps port with BC1.2 charging support, and 1x USB-C 10Gbps port
- Connect USB peripherals with six USB-A ports and one USB-C port
- Audio support for a speaker or headset with a microphone
- Connect to a wired Gigabit Ethernet network
- Supports microSD or SD cards at 300MB/s speeds

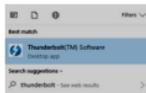
2.4 System Requirements

Computer Compatibility	Thunderbolt 3 port USB-C port
Note:	Computers with ChromeOS are NOT compatible
OS Compatibility	macOS 10.13 and up Windows 10 64-bit
External Displays	DisplayPort and/or HDMI monitors and cables
Ethernet Networking	LAN or router with RJ45 and an Ethernet cable (Cat 6 for Gigabit Ethernet)
USB Connectivity	Compatible USB-A or USB-C devices and cables. To achieve 10Gbps speed on 10Gbps ports, 10Gbps-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

- ✓ A Windows PC may need Thunderbolt updates to function properly over Thunderbolt 3
 - For more information, go to kb.cablematters.com
- ✓ Check that your Thunderbolt port is wired for 40Gbps to support dual 4K monitors & Gigabit Ethernet (some only support 20 Gbps)
- ✓ A computer with USB-C rated for 10Gbps supports dual or single monitors. Resolutions depend on host capabilities
- ✓ Use the included Thunderbolt 3 cable to connect to the Dock for the best performance
 - Longer active Thunderbolt 3 cable up to 2m are available (Cable Matters Model 107012)
 - USB-C only computers must use a passive Thunderbolt 3 cable up to 0.8m (Cable Matters Model 107002)
- ✓ Check that the Intel Thunderbolt™ Software is installed. Search for it in Windows
- ✓ macOS computers do not require any additional external software
- ✓ For additional troubleshooting information, go to kb.cablematters.com and search for 107044.

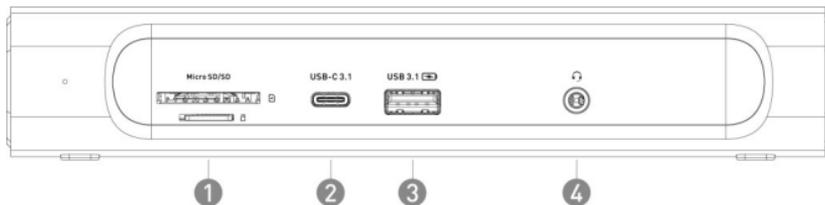


3.2 USB-C or Thunderbolt 3 External Display Chart

Thunderbolt 3 hosts support two 4K@60Hz displays. The display support of USB-C hosts depends on the DP Alt Mode and Display Stream Compression (DSC) support of the host.

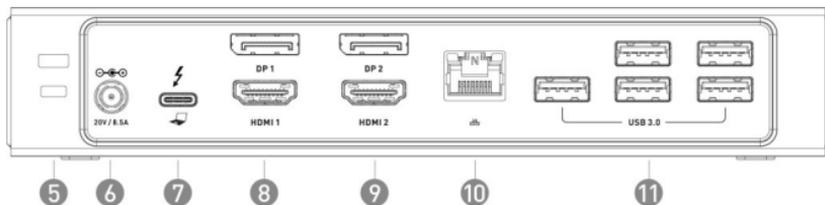
Computer	Displays
Thunderbolt 3 (40Gbps)	2x 4K@60Hz
USB-C (HBR2)	1x 4K@30Hz 2x 1080p@60Hz
USB-C (HBR3 without DSC)	1x 4K@60Hz 2x 1440p@60Hz
USB-C (HBR3 with DSC)	2x 4K@60Hz

3.3 Front Panel Diagram



- 1) SD and microSD card slots
- 2) USB-C 3.1 Gen 2 10Gbps port
- 3) USB-A 3.1 Gen 2 10Gbps port with BC1.2 charging support
- 4) 3.5mm TRRS combo headphones/mic port

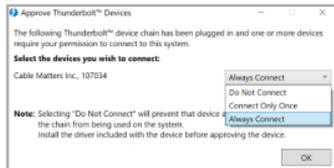
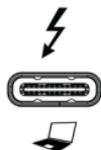
3.4 Rear Panel Diagram



- 5) K-Lock slot
- 6) AC power port
- 7) Thunderbolt 3 40Gbps / USB-C host connector port
- 8) Display 1 connector – HDMI or DisplayPort
- 9) Display 2 connector – HDMI or DisplayPort
- 10) Gigabit Ethernet RJ45 connector
- 11) 5x USB-A 3.1 Gen 1 5Gbps ports

3.5 Connecting the Docking Station

- 1) Connect the Dock to an AC power outlet
- 2) Connect the included cable to the Thunderbolt 3 or USB-C port on the computer
- 3) A computer equipped with Power Delivery should indicate that it is charging
- 4) Wait up to 20 seconds while USB drivers are automatically installed
- 5) Check that an LED in the RJ45 port is lit
- 6) Windows may request the user to approve the Dock
- 7) Check the status of connected Thunderbolt devices from the Thunderbolt software in Windows

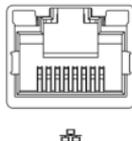


Troubleshooting Tips

- Reboot the computer and check that the Dock has AC power
- Check with the computer maker for updated BIOS and other drivers for Windows
- Test the Thunderbolt 3 cable with a different device
- Do not disconnect the Thunderbolt 3 or USB-C cable from the host while the docking station is in use
- On some Mac hosts, a DisplayPort monitor may not work if the Thunderbolt cable is disconnected and reconnected to the host. Try disconnecting and reconnecting the DisplayPort monitor to the dock if this occurs

3.6 Connecting to a LAN or Router

- 1) Connect an RJ45 patch cable to the Dock (Cat 6 recommended for 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



Troubleshooting Tips

- Reboot the computer
- Check that the Link and Status LEDs are lit
- 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 Thunderbolt 3 or USB-C host port, the connected network equipment and the Internet speed

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

- 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 a DisplayPort or HDMI monitor to the DP 1 port or HDMI 1 port
- 2) For dual monitors, connect a second DisplayPort or HDMI monitor to the DP 2 or HDMI 2 port
- 3) Select the desired video input from each monitor's menu
- 4) Select the audio output from the computer, if needed



DP 1



DP 2



HDMI 1



HDMI 2

Display 1

Display 2

Windows 10: 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

- Check the resolution chart on Page 3 to verify display and resolution host device support
- Check that your computer supports 2 external monitors
- Certain Mac computers may not support the HDCP function if a monitor is connected to the DP 2 or HDMI 2 port. These computers may display a copy protection error when viewing certain copy-protected media such as streaming video or Blu-ray discs. Try viewing the content with only one monitor connected to the DP 1 or HDMI 1 port
- Test the cables with other equipment
- For two-monitor setups, ensure one monitor is connected to an HDMI 1 or DP 1 port, and the other monitor is connected to an HDMI 2 or DP 2 port. Do not connect both monitors to the same Display
- The Surface Pro 7 only supports a 4K @30Hz display

3.9 Connecting a USB-A or USB-C Device

FRONT PANEL

10Gbps Speed

USB-C 3.1



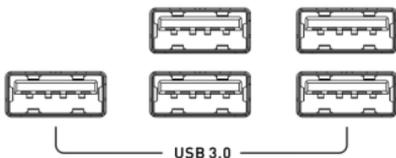
USB 3.1



- 1) Connect a USB-A or USB-C device or cable to the Dock
- 2) The device should be recognized after downloading any needed USB drivers
- 3) Data transfer up to 10Gbps is supported. The USB-A port provides 1.5A BC1.2 charging.
- 4) Use *Safely Remove* or *Eject* when disconnecting, if needed

REAR PANEL

data only



- 1) Connect a USB-A 2.0 or USB 3.0 device or cable to the Dock
- 2) The device should be recognized after downloading any needed USB drivers
- 3) Data transfer only is supported
- 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 AC 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 3 or USB-C host port and the connected device
- Thunderbolt displays, devices or external drives are NOT compatible
- USB-C displays are NOT compatible

3.10 Connecting SD Cards



- 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 3 or USB-C host port, connected devices, and card type

4. TECHNICAL SPECIFICATIONS for Model 107044

Thunderbolt 3 /USB-C (host)	Thunderbolt 3 40Gbps / USB-C
Included Host Cable	Thunderbolt 3 40Gbps passive
Gigabit Ethernet Network Port	RJ45
USB-A 3.1 (front panel)	1x USB-A 3.1 10Gbps with BC1.2 charging
USB-A 3.0 (rear panel)	5x USB-A 3.0 5Gbps for data transfer only
USB-C 3.1 (front panel)	1x USB-C 3.1 10Gbps for data transfer only
Displays	2x DisplayPort 1.4, 2x HDMI 2.0
Audio	3.5mm TRRS Combo Audio Port / 2 Ch audio
SD Card	1x SD card slot, 1x MicroSD card slot—300MB/s
Power	Input: AC 100/240V Output: 20V/8.5A US Standard
Operation/Storage Temperature	32-104°F / -4-158°F
OS Support	Windows 10 64-bit, macOS 10.13 and up
Maximum Resolution Support	Up to 3840 x 2160 @ 60Hz
Dock Housing (LxWxH)	7.7 x 4.1 x 1.4 in (195 x 105 x 36 mm)
Dock Weight	21.3 oz (605g)
Compliance	C E, FCC, RoHS
Warranty	Limited One-Year

Note: Specifications are subject to change without notice

5. WARRANTY & SUPPORT INFORMATION

5.1 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.

5.2 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.

5.3 Limitation of Liability

In no event shall Cable Matters Inc. (including their officers, directors, employees or agents) be liable for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of data, loss of business, or any pecuniary loss, arising out of, or related to the use of this product exceeding the actual price paid for the product (as allowed by state law).

View compatible products at www.cablematters.com

Certified Active 40Gbps Thunderbolt™ 3 Cable

Model 107012



Certified Passive 40Gbps Thunderbolt™ 3 Cable

Model 107002



2-Pack DisplayPort™ Cables

Model 102005



THIS PAGE LEFT INTENTIONALLY BLANK