

# Owner's Manual

## Thunderbolt™ 3 Dock with 4K HDMI and DisplayPort Video, VGA, Gigabit Ethernet, Audio, USB-A and USB-C Hub Ports

Model: MTB3-DOCK-02

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## Product Features

- Supports Thunderbolt 3 data transfer rates up to 40 Gbps, up to four times faster than USB 3.1 Gen2 (10 Gbps)
- HDMI and DisplayPort video ports support 3840 x 2160 (4K x 2K) @ 60 Hz
- VGA port supports 1920 x 1080 (1080p) @ 60 Hz
- Supports MST Mode in order to transmit different video content to each of the HDMI, DisplayPort and VGA ports
- Included 120W DC power supply provides up to 20V 3A (60W) to the host device
- Includes two USB 2.0 Type-A ports and two USB 3.0 Type-A ports for connecting USB peripherals
- Includes one USB 3.0 Type-C port for connecting USB-C peripherals
- RJ45 port supports full Gigabit Ethernet speeds for connecting to a wired network
- 3.5 mm mini stereo jack on front of unit for connection of speaker or microphone
- 3.5 mm mini stereo jack on back of unit for connection of speaker
- Plug-and-play; no drivers or software required

## System Requirements

- Computer with Thunderbolt 3 port that supports DisplayPort MST Mode  
**Note:** See **Multi-Monitor Requirements** section for details
- DisplayPort, HDMI or VGA monitor
- Ethernet network with speeds up to 10/100/1000 Mbps

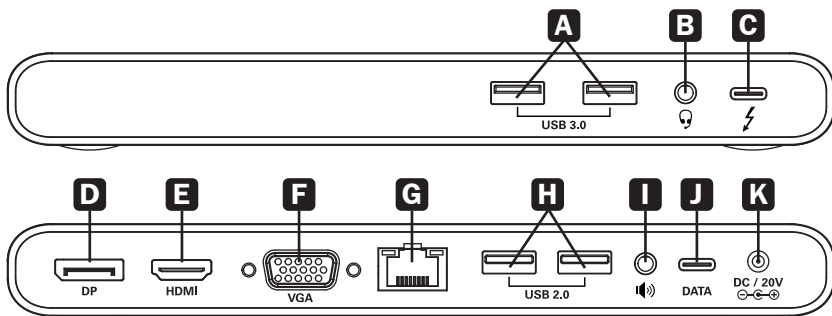
## Package Contents

- MTB3-DOCK-02
- Thunderbolt 3 Cable, M/M, 1.6 ft. (0.5m)
- External Power Supply  
(Input: 100-240V, 50/60 Hz, 3.0A; Max. Output: 20V 6A)
- Owner's Manual

## Optional Accessories

- MTB3-Series 40 Gbps Active Thunderbolt 3 Cables
- N201-Series Cat6 Gigabit Snagless Patch Cables
- P568-Series High-Speed HDMI Cables
- P580-Series DisplayPort Cables
- P502-Series High-Resolution VGA Cables
- U322-Series USB 3.0 A/B Device Cables
- U326-Series USB 3.0 A/Micro-B Device Cables
- U420-003-G2-5A USB 3.1 Gen2 USB-C Cable (3 ft.)

## Product Overview



- A** USB-A 3.0 (x2)
- B** 3.5 mm Audio
- C** Thunderbolt 3 Host Port
- D** DisplayPort
- E** HDMI
- F** VGA
- G** RJ45
- H** USB-A 2.0 (x2)
- I** 3.5 mm Audio
- J** USB Type-C 3.0
- K** DC Power Supply (120W)

# Installation

## Notes:

- Supports the connection of two monitors at the same time through DisplayPort MST mode\*.
- When the included 20V 6A (120W) power supply is connected to the DC port, it supplies up to 20V 3A (60W) power to charge the host PC first, with the rest of the power supplied to the dock.
- See **Optional Accessories** for recommended cables.
- When the unit is connected to the USB-C port on the computer and to a network via Cat5e/6 cabling, a network connection will be established automatically. If no connection is made, you can establish one manually by going to your computer's network settings page. For example, on a Mac, navigate to the Network section found in System Preferences, click the "Assist Me" button to get to the Network Setup Assistant, then follow the prompts to establish a connection.

\*see **Multi-Monitor Requirements** section for details.

- 1.** Connect the included power supply between the unit and a power source.
- 2.** Connect a Thunderbolt 3 enabled laptop or computer to the unit's Thunderbolt 3 host port using the included Thunderbolt 3 cable.
- 3.** Connect a 3.5 mm mini stereo cable to the back of the unit to connect a speaker.
- 4.** Connect up to four USB devices to the dock's USB-A ports.
- 5.** Connect the adapter's RJ45 port to a network using a UTP cable.
- 6.** Connect the dock's VGA port to the VGA port on a monitor using a VGA cable.

### OR

Connect the dock's HDMI port to the HDMI port on a monitor using a HDMI cable.

### OR

Connect the dock's DisplayPort port to the DisplayPort port on a monitor using a DisplayPort cable.

- 7.** Connect a 3.5 mm mini stereo cable to the front of the unit to connect a microphone or headphones.

## Multi Monitor Requirements

The MTB3-DOCK-02 supports the connection of two monitors at the same time through DisplayPort Multi-Stream Transport (MST) mode. When DisplayPort MST mode is in use, the DisplayPort video port must be one of the two video ports being used. Connect either a DisplayPort monitor and HDMI monitor or a DisplayPort monitor and VGA monitor. Do not connect an HDMI monitor and a VGA monitor.

The below limitations must be taken into account when connecting multiple monitors at the same time:

### Does the Source Computer Support DisplayPort MST Mode?

When connecting to a Thunderbolt 3 source that supports DisplayPort MST mode, the EDID information of both connected monitors will be read by the computer and appear as separate displays that can be shown in mirror mode or extended mode. Both the DisplayPort and HDMI ports support full 4K x 2K (3840 x 2160) @ 60 Hz video resolutions and can be used simultaneously. The VGA port reaches maximum resolutions of 1920 x 1200 @ 60 Hz and can be used with the DisplayPort video port simultaneously.

When connecting to a Thunderbolt 3 source that does not support DisplayPort MST mode, such as a MacBook, Single-Stream Transport (SST) mode is used instead. In SST mode, only the EDID of the first connected monitor is read by the computer, forcing the connected monitors to display in mirror mode. The default resolutions of the first monitor will then be sent to the second monitor, with both monitors displaying the same resolutions. If the second monitor is not capable of supporting the same resolution as the first, no video will display on that monitor. Before connecting the second monitor, the first monitor's resolution must be changed to the second monitor's resolution in order for video to be displayed.

# Specifications

<b>Input Connectors</b>	
DC Port	DC Power (Female)
Thunderbolt 3	1x Type-C (Female)
<b>Output Connectors</b>	
USB-A	2x USB 3.0 A (Female), 2x USB 2.0 A (Female)
USB-C	1x USB 3.0 Type-C (Female)
Ethernet	1x RJ45 (Female)
VGA	1x VGA (Female)
HDMI	1x HDMI (Female)
DisplayPort	1x DisplayPort (Female)
Audio Port	2x 3.5 mm Mini Stereo Audio (Female)
<b>Environmental</b>	
Operating Temperature	32° to 113°F (0° to 45°C)
Operating Humidity	10% to 90% RH, Non-Condensing
Storage Temperature	32° to 158°F (0° to 70°C)
Storage Humidity	10% to 90% RH, Non-Condensing
<b>Display</b>	
HDMI	3840 x 2160 @ 60 Hz
DisplayPort	3840 x 2160 @ 60 Hz
VGA	1920 x 1200 @ 60 Hz
<b>Ethernet Network</b>	
RJ45	10/100/1000 Mbps (1 Gbps)
<b>Power Requirements</b>	
DC Port	Supports up to 20V 6A (120W) Input; Provides up to 20V 3A (60W) to Power the Host Device
<b>Power Supply</b>	
Power Input	100-240V, 50/60 Hz, 3.0A
Power Output	20V 6A (120W)

# Warranty and Product Registration

## 3-Year Limited Warranty

Tripp Lite warrants its products to be free from defects in materials and workmanship for a period of three (3) years from the date of initial purchase. Tripp Lite's obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. To obtain service under this warranty, you must obtain a Returned Material Authorization (RMA) number from Tripp Lite or an authorized Tripp Lite service center. Products must be returned to Tripp Lite or an authorized Tripp Lite service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment, which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

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Specifically, Tripp Lite is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise.

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\* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

## FCC Notice, Class B

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications to this equipment not expressly approved by Tripp Lite could void the user's authority to operate this equipment.

# Warranty and Product Registration

## WEEE Compliance Information for Tripp Lite Customers and Recyclers (European Union)



Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Tripp Lite they are entitled to:

- Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)
- Send the new equipment back for recycling when this ultimately becomes waste

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended.

Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice. Photos and illustrations may differ slightly from actual products.



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