

# Owner's Manual

## Thunderbolt 4 Multi-Port Hub with 8K and Dual 4K Video and Thunderbolt Hub Ports

Model: MTB4-HUB3-01

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## Package Includes

- MTB4-HUB3-01
- Thunderbolt 4 Passive Cable, M/M, 2.62 ft. (0.8 m)
- External Power Supply (Input: 100-240V, 50/60 Hz, 1.5A; Output: 20V 5A)
- International Plug Adapters (x4)
- Owner's Manual

## Optional Accessories

- MTB3-XXM-5A-AB Active Thunderbolt 3 Cables
- MTB3-XXM-5A-B Passive Thunderbolt 3 Cables
- U420-Series USB 3.1 Gen 2 (10 Gbps) Thunderbolt 3 Compatible Cables

## Product Features

- Thunderbolt 4 input supports data transfer rates up to 40 Gbps when used with a Thunderbolt 4-enabled host computer and are backward compatible with Thunderbolt 3, DisplayPort Alt Mode and USB  
***Note:** Host computer must be a PC compatible with Thunderbolt 4 and running Windows 10 or higher, or a Mac compatible with Thunderbolt 3 and running macOS 11 or higher to function properly. See **Troubleshooting** section of the manual for details.*
- Features three Thunderbolt 4 ports capable of transmitting 8K (7680 x 4320) @ 30 Hz video to a single port, or dual 4K (3840 x 2160) @ 60 Hz video
- Connect up to three Thunderbolt-compatible devices to the hub and cascade up to 6 levels in total. See **Troubleshooting** section for details.
- USB 3.1 Gen 2 port supports up to 10 Gbps data transfer rates and up to 0.9A downstream charging to a connected device
- Smart power technology allows the hub to distribute power between the host and connected devices evenly and efficiently, with each port providing up to 15W (5V 3A) to connected devices, according to the consumption of connected devices

# System Requirements

- Host computer that is either a Thunderbolt 4-enabled Windows 10 PC or Thunderbolt 3-enabled Mac running at least macOS 11

**Note:** The host computer must support Windows 10 or higher or macOS 11 or higher for the hub to function properly. See **Troubleshooting** section for details.

- Thunderbolt or USB-C monitors capable of achieving video resolutions up to 8K (7680 x 4320) @ 30 Hz (single display) or 4K (3840 x 2160) @ 60 Hz (dual displays)

**Note:** If using a USB-C-enabled monitor, the dock will only function properly with a passive Thunderbolt cable, such as Tripp Lite's MTB3-XXM-5A-B cables. If using a Thunderbolt-enabled monitor, a passive or active cable can be used.

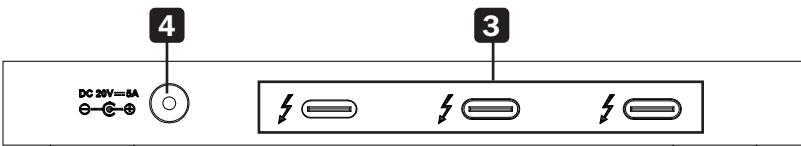
# Product Overview

## Front



- 1** Thunderbolt 4 Input Port
- 2** USB 3.1 Gen 2 (10 Gbps) Port

## Rear



- 3** Thunderbolt 4 Output Ports
- 4** 100W (20V 5A) DC Power Input

## Installation

**Note:** The host computer must support Windows 10 or macOS 11 or the hub will not function. See **Troubleshooting** section for details.

1. Connect the Thunderbolt 4 input port of the hub to the Thunderbolt 4 or Thunderbolt 3 port on your computer or laptop using the included Thunderbolt 4 cable.
2. Connect up to three Thunderbolt devices to the hub's three Thunderbolt ports.

**OR**

3. Connect the hub to a single 8K (7680 x 4320) @ 30 Hz-enabled display or two 4K (3840 x 2160) @ 60 Hz-enabled displays using Thunderbolt 3 cables (such as Tripp Lite MTB3-Series Active Thunderbolt 3 cables).
4. Connect a USB peripheral to the USB 3.1 Gen2 port.

## Troubleshooting

### **Does the host computer support Windows 10 or macOS 11?**

The MTB4-HUB3-01 requires the host computer to support either Windows 10 or macOS 11 to function properly. If the host computer has a Thunderbolt 4 or Thunderbolt 3 port, but does not support either of those operating systems, then the hub will be able to charge the host computer and any connected devices, but will not transmit video to connected monitors.

### **How many displays can be connected at one time?**

The MTB4-HUB3-01 supports video transmission to Thunderbolt- or USB-C-enabled monitors. A single display can achieve up to 8K (7680 x 4320) @ 30 Hz video. Two displays can be connected simultaneously at 4K (3840 x 2160) @ 60 Hz resolutions. The hub will not support video transmission from all three Thunderbolt ports simultaneously.

# Troubleshooting

## **How is the unit able to support up to 6 Thunderbolt devices?**

The hub's three Thunderbolt 4 ports are capable of directly supporting three Thunderbolt-compatible devices and can also cascade to up to six levels. This includes Thunderbolt docks and adapters (such as the Tripp Lite MTB3-Series) that allow you to connect peripherals such as hard disks, RAID memory, additional USB ports and more. The MTB4-HUB3-01 acts as the first level in the chain and can cascade an additional five levels vertically, with many more devices connecting horizontally. The dock supports 40 Gbps Thunderbolt 4 data transmission that is shared among the three ports and all connected peripherals and displays. For instance, if both displays are in use, roughly 32 Gbps is diverted to the displays, leaving 8 Gbps for the final port and anything connected to it.

## **How does the smart power charging affect devices connected to the unit?**

The MTB4-HUB3-01 features a 20V 5A (100W) power input and is capable of providing up to 60W to charge the host computer. Each Thunderbolt 4 port is capable of providing up to 15W to connected peripherals, and the USB 3.1 Gen 2 port is capable of providing 0.9A to connected peripherals. The hub uses smart power technology to determine where the most power is required and divert it automatically. The hub receives up to 90W from the power adapter, with 10W allocated as a buffer.

**Note:** *the hub does not support PD Charging on any of the three Thunderbolt 4 ports.*

# Specifications

<b>Input Connector</b>	
Thunderbolt	Thunderbolt 4 Type-C (Male)
<b>Output Connectors</b>	
Thunderbolt	Thunderbolt 4 Type-C, x3 (Female)
USB	USB 3.1 Gen 2 Type-A (Female)
<b>Display Specifications</b>	
Thunderbolt / Type-C (Single Display)	8K (7680 x 4320) @ 30 Hz
Thunderbolt / Type-C (Dual Displays)	4K (3840 x 2160) @ 60 Hz
<b>Data Transfer Specifications</b>	
Thunderbolt	40 Gbps Downstream (shared between x3 Thunderbolt 4 ports)
USB	USB 3.1 Gen 2 (10 Gbps)
<b>Power Specifications</b>	
DC Power Input	20V 5A (100W)
Host Computer Charging	60W
Thunderbolt, x3 (Female)	5V 3A (15W) per Thunderbolt 4 port
USB-A, x1 (Female)	0.9A
<b>Environmental Specifications</b>	
Operating Temperature Range	32° to 113°F (0° to 45°C)
Storage Temperature Range	14° to 158°F (-10° to 70°C)
Operating Humidity Range	10% ~ 85% RH (Non-condensing)
Storage Humidity Range	5% ~ 90% RH (Non-condensing)
<b>Operating Systems Supported</b>	
Windows	Windows 10 or higher
Mac	macOS 11 or higher

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