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Thunderbolt 2 Dual-Video Docking Station - 2x DisplayPort

TB2DOCK4K2DP

*actual product may vary from photos

DE: Bedienungsanleitung - de.startech.com
FR: Guide de l'utilisateur - fr.startech.com
ES: Guía del usuario - es.startech.com
IT: Guida per l'uso - it.startech.com
NL: Gebruiksaanwijzing - nl.startech.com
PT: Guia do usuário - pt.startech.com

For the latest information, technical specifications, and support for this product, please visit www.startech.com/TB2DOCK4K2DP.

FCC Compliance Statement

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

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.

Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

CAN ICES-3 (B)/NMB-3(B)

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Introduction

Packaging contents

- 1x Thunderbolt™ 2 dual-video docking station
- 1x Thunderbolt cable
- 1x universal power adapter
- 4x power cords (NA/EU/UK/AU)
- 1x instruction manual

System requirements

- Thunderbolt enabled host computer with an available Thunderbolt port (Thunderbolt 2 port required for full performance)
- Available AC electrical outlet
- DisplayPort™ or Thunderbolt enabled display(s) with cables as desired (for additional external displays)
- A 4K-capable display is required to achieve 4K x 2K resolution (4K is also known as 4K x 2K)
- Windows® 10 (32-bit or 64-bit)
- Windows 8 / 8.1 (32-bit or 64-bit)
- Windows 7 (32-bit or 64-bit)
- macOS 10.12 (Sierra)

Note: If you connect the docking station to a Thunderbolt host port, performance may be limited. A Thunderbolt 2 host port is highly recommended.

Operating system requirements are subject to change. For the latest requirements, please visit http://www.startech.com/TB2DOCK4K2DP

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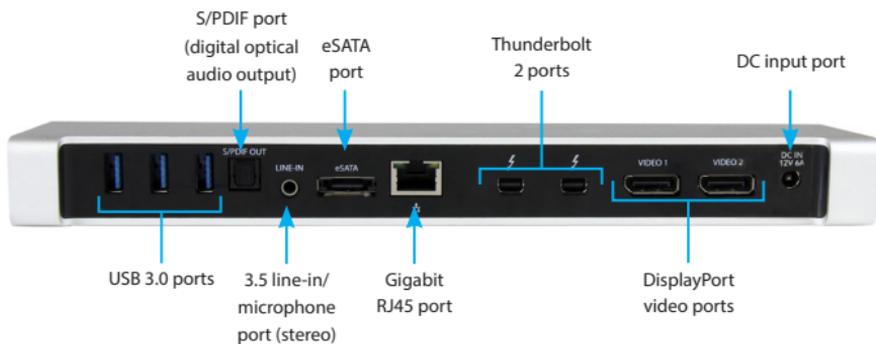Hard-to-find made easy®

Product diagram

Side view

3.5mm TRRS
headset port
(audio and
microphone)

USB 3.0
fast-charge
and sync

Rear view

S/PDIF port
(digital optical
audio output)

eSATA
port

Thunderbolt
2 ports

DC input port

USB 3.0 ports

3.5 line-in/
microphone
port (stereo)

Gigabit
RJ45 port

DisplayPort
video ports

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About USB 3.0 and USB 3.1 Gen 1

USB 3.0 is also known as USB 3.1 Gen 1. This connectivity standard offers speeds up to 5Gbps. Any mention of USB 3.0 in this manual or the StarTech.com website for TB2DOCK4K2DP refers to the 5Gbps USB 3.1 Gen 1 standard.

Temperature

Due to the high-performance of Thunderbolt technology, Thunderbolt products sometimes generate more heat than traditional hardware. Therefore, it's normal for the docking station to warm up when in use. Placing your laptop on the docking station's surface will result in even higher temperatures.

These higher temperatures do not represent a safety hazard to users or to hardware.

About installation

The docking station is natively supported when connected to a compatible operating system (see the **System requirements** section for supported operating systems). It should automatically detect and install the required drivers once connected to a Thunderbolt 2 port on your host laptop.

Follow the below sections and steps to properly set up the docking station.

Install the docking station

1. Select the appropriate power cord for your region and connect it to the power adapter.

2. Connect the power adapter to an AC electrical outlet and then to the docking station's **DC IN** (power input) port. The docking station should now be receiving power.

3. Connect your external display(s) to the docking station (example, DisplayPort or Thunderbolt displays).

4. Connect your peripherals to the docking station (example, USB devices, RJ 45 network).

5. Connect the provided Thunderbolt cable to a Thunderbolt 2 port on your host laptop and to one of the **Thunderbolt 2** ports on the docking station.

Note: Either of the Thunderbolt 2 ports on the docking station can be used to connect to your host laptop.

Note: See the **Configure a display device** section for dual-display configuration requirements.

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Install the drivers

Once the docking station is powered and connected to your host laptop, the required drivers should automatically install.

If you are using a Windows operating system, you might see a pop-up message requesting permission to allow the docking station to connect to your computer. If you see this pop-up message, do the following:

1. Click on the pop-up message.
2. On the following prompt, select **Always Connect** from the drop-down list.
3. Click **OK**. If required, follow any other on-screen instructions to complete the installation.

The drivers can also be found under the **Support** tab on our website at http://www.startech.com/TB2DOCK4K2DP

About the docking station ports

The three USB ports located at the back of the docking station are standard USB 3.0 throughput ports. When the docking station is connected to a host laptop, these ports provide a trickle charge to a selection of devices.

The side USB 3.0 port is compliant with Battery Charging Specification Revision 1.2 (BC1.2), which means that you can use the port to connect and charge a device faster than a traditional standard USB 3.0 port.

This side USB 3.0 port can fast-charge a connected device even when the docking station isn't connected to a host laptop. When the docking station is connected to a host laptop, the front USB 3.0 port functions as a Charging Downstream Port (CDP), which has simultaneous charge and sync capabilities.

Charge a device

If you're only using the side USB 3.0 port to charge a device, a connection to a host laptop isn't required.

• To charge a device, connect it to the USB 3.0 port located on the side of the docking station.

Note: This side USB 3.0 port can only fast-charge connected devices that comply with USB Battery Charging Specification Revision 1.2.

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Configure a display device

Use your Windows or Mac operating system to adjust display settings for multiple monitors.

- You can set up dual displays by using the video output ports (2x DisplayPort, or 1x DisplayPort + 1x Thunderbolt/MDP).

- You can set up dual displays using multiple Thunderbolt monitors in a daisy-chain configuration.

Note: Your laptop hardware must support dual external displays through its Thunderbolt 2 port.

A Thunderbolt daisy chain allows you to connect multiple Thunderbolt devices together, through a single Thunderbolt port on your host device.

Example: You can connect a Thunderbolt display to the dock's Thunderbolt port. You can then connect another Thunderbolt device, such as a second Thunderbolt display, through the first Thunderbolt display.

- Thunderbolt ports are compatible with Mini DisplayPort, and can be used to connect a Mini DisplayPort or DisplayPort enabled display.

- The docking station supports DisplayPort 1.2 monitors.

Supported video resolutions

The docking station supports 4K Ultra HD resolutions up to 3840 x 2160p (30Hz) if the connected DisplayPort or Thunderbolt display supports it.

- Thunderbolt technology supports both video and data throughput. However, it prioritizes video bandwidth to help ensure seamless display performance. The performance of the remaining dock functions depends entirely on your display configuration.

- Video output capabilities are dependent on the video card and hardware specifications of your connected host laptop.

- In a multi-display configuration, set the refresh rates on each of your connected monitors to the same values, otherwise your monitors may not properly display.

See the video resolution chart below for specific configurations and support resolutions.

If three displays are connected to the docking station using the two DisplayPort ports and one of the Thunderbolt ports, only two displays will receive video.

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In this scenario, DisplayPort Video 2 will be disabled:

DisplayPort Video 1 - Enabled

DisplayPort Video 2 - Disabled

Thunderbolt - Enabled

The docking station does not support three displays unless connected using a Thunderbolt daisy chain.

Video Output Configuration	Max DisplayPort Resolution (Video 1)	Max DisplayPort Resolution (Video 2)	Max Thunderbolt Resolution
DisplayPort 1 (Single display)	3840 x 2160p (4K)	N/A	N/A
DisplayPort 2 (Single display)	N/A	3840 x 2160p (4K)	N/A
Thunderbolt (Single display)	N/A	N/A	3840 x 2160p (4K)
DisplayPort 1 and DisplayPort 2 (Two displays)	2560 x 1600p	2560 x 1600p	N/A
DisplayPort and Thunderbolt (Two displays)	3840 x 2160p (4K)	N/A	Tested up to 3440 x 1440p
Thunderbolt daisy chain (Tested up to two displays)	N/A	N/A	Tested up to 3840 x 2160p (4K) + 2560 x 1440p

Note: Depending on the configuration and the supported resolutions of your connected monitor(s), the docking station can support video resolutions lower than specified above.

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Technical support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit **www.startech.com/support** and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit **www.startech.com/downloads**

Warranty information

This product is backed by a two-year warranty.

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