

## USB-C Docking Station for Laptops - MST and Power Delivery - 4K

MST30C2DPPD



\*actual product may vary from photos

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For the latest information, technical specifications, and support for this product, please visit [www.startech.com/MST30C2DPPD](http://www.startech.com/MST30C2DPPD).

## 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 USB-C™ docking station for laptops
- 1x USB-C to USB-C host cable
- 1x universal power adapter
- 4x power cords (NA/EU/UK/AU)
- 1x quick-start guide

## Requirements

- Host laptop with an available USB-C port (to ensure full dock functionality, the host USB-C port must support USB Power Delivery and DP alt mode)

**Note:** The docking station can still connect to a host laptop with a USB-C port that doesn't support Power Delivery (must still support DP alt mode). In this configuration, the docking station will not provide power to your host laptop.

- Available AC electrical outlet
- DisplayPort™ or HDMI® enabled display(s) with cables as needed (for additional external displays)
- A 4K-capable display is required to achieve 4K x 2K resolution (4K is also known as 4K x 2K)
- Any of the following operating systems:
  - Windows® 10 (32-bit or 64-bit)
  - Windows 8 / 8.1 (32-bit or 64-bit)
  - Windows 7 (32-bit or 64-bit)
- Mac OS 10.11, 10.10
  - \*Mac OS does not support MST
- Operating system requirements are subject to change. For the latest requirements, please visit [www.startech.com/MST30C2DPPD](http://www.startech.com/MST30C2DPPD).

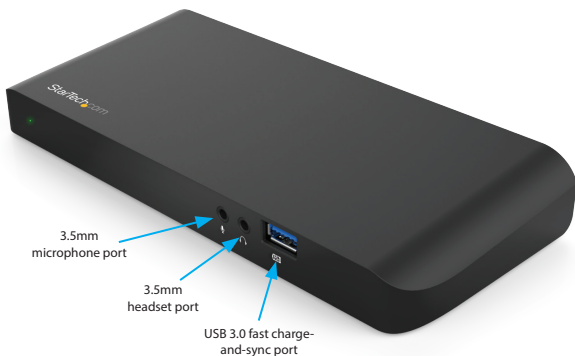
### Notes:

- Not all USB-C ports support full functionality of the USB Type-C standard. Ensure that your host USB-C port supports DP alt mode, as well as USB Power Delivery.

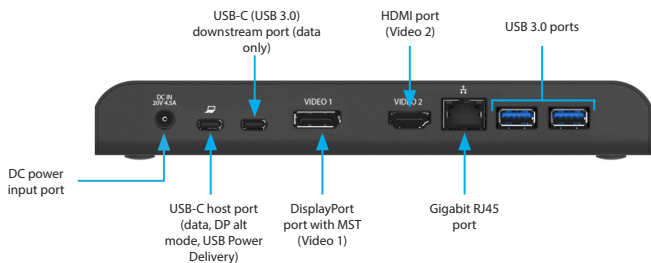
- Video output capabilities are dependent on the video card and hardware specifications of your connected host laptop. Certain video cards have limited MST or video support, while some monitors will also limit the available resolution.

# Product diagram

## Front view



## Rear view



# 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 on the StarTech.com website for MST30C2DPPD refers to the 5Gbps USB 3.1 Gen 1 standard.

## About USB-C

Not all USB-C ports support the full functionality of the USB Type-C™ standard. Some ports might only provide data transfers, and might not support video or power delivery over USB.

To use this dock to its full potential, ensure that the host USB-C port from your computer supports DP alt mode, as well as USB Power Delivery.

The unlabeled USB-C port on the docking station is a traditional USB 3.0 (USB 3.1 Gen 1) 5Gbps downstream data port. This port does not support DP alt mode (video), or USB Power Delivery.

## Install the docking station

The dock will automatically install some of the required drivers once it's connected to your laptop's USB-C port. If you receive a prompt to automatically install the driver(s), follow the on-screen instructions to complete the installation.

The drivers can also be found under the **Support** tab on our website at: [www.startech.com/MST30C2DPPD](http://www.startech.com/MST30C2DPPD).

## Power the docking station

When the docking station is plugged in and powered, you can use USB-C Power Delivery to power and charge your laptop through its USB-C port. The docking station cannot receive power from the host laptop, therefore the power adapter must always be connected to 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.
3. Connect the provided USB-C cable to a USB-C port on your host laptop and to the USB-C port on the dock that is labeled with a laptop icon.

Both the docking station and your connected laptop should now be receiving power.

**Note:** In order to power and charge your connected laptop, its USB-C port must support USB Power Delivery.

# Install and use the docking station

After completing the steps in the **Power the docking station** section:

1. Connect your devices to the appropriate ports on the dock (see product diagram for port callouts). Devices may include USB peripherals, headset, microphone, tablets, etc.
2. Connect your external display(s) to the dock's video port(s). The dock features one DisplayPort connection, and one HDMI port.

## Notes:

- Video output capabilities are dependent on the video card and hardware specifications of your connected host laptop. Certain video cards have limited MST support, while some monitors will also limit the available resolution.

## Install the remaining drivers

Depending on your operating system, the dock will automatically install some of the required drivers once connected to your host laptop. Follow the below instructions to complete the full driver installation process.

1. To download the latest drivers, use a Web browser and navigate to [www.startech.com/MST30C2DPPD](http://www.startech.com/MST30C2DPPD).
2. Click the **Support** tab.
3. Download the drivers.
4. When the download is complete, extract the contents of the compressed file(s) that you downloaded.
5. Double-click the appropriate driver for the version of Windows or Mac that you're running and follow the on-screen instructions to complete the installation.

**Note:** If you are prompted to restart your computer, do so to complete the installation.

## About the docking station ports

The three USB ports located at the back of the docking station (2x USB-A, 1x USB-C) are standard USB 3.0 throughput ports. When the dock is connected to a host laptop, these ports provide a trickle charge to a selection of devices.

The front USB 3.0 port (USB-A) 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 you can using a traditional standard USB 3.0 port.

This front USB 3.0 port can fast-charge a connected device even when the dock 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.

The provided power adapter must be connected to the docking station in order charge your mobile device without a connection to a host laptop.



# Charge a device

If you're only using the front 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 front of the docking station.

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

# Configure a display device

Use your Windows or Mac operating system to adjust display settings for multiple monitors. Your laptop hardware must support dual external displays.

- You can set up dual displays by using the video output ports (1x DisplayPort and 1x HDMI).

# Supported video resolutions

The docking station supports 4K Ultra HD resolution if the connected HDMI or DisplayPort display supports it.

Number of Displays Supported	Video Output Configuration	Maximum Resolution
2	DisplayPort and HDMI	1920 x 1200p (60Hz)
1	HDMI	4096 x 2160p (24Hz)
1	DisplayPort	3840 x 2160p (30Hz)

- In a multi-display configuration, set the refresh rates on each of your connected monitors to the same values, otherwise your monitors might not properly display.
- Video output capabilities are dependent on the video card and hardware specifications of your connected host laptop.

# 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](http://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](http://www.startech.com/downloads)

## Warranty information

This product is backed by a two-year warranty.

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