

## Important Note

The initial connection of the U442-DOCK7D-B must be made with an account on the host system which has administrative rights (allowing for the installation of the embedded drivers). U442-DOCK-Series products with USB ports share current limitation of 2.4-2.8 A. Exceeding the current limitation will cause the overload protector to *enable* and make the display flicker.

# USB-C Dock, Triple Display - 4K HDMI & DP, VGA, USB 3.2 Gen 1, USB-A/C Hub, GbE, 100W PD Charging

MODEL NUMBER: U442-DOCK7D-B



USB-C docking station with 14 ports lets you mirror or extend video from your laptop or PC across as many as 3 different displays.

## Features

**USB-C Docking Station Turns Your Device's USB-C or Thunderbolt 3 Port into 14 New Ports** This universal USB-C dock with PD Charging expands the potential of your Windows laptop, Chromebook, smartphone or PC's USB-C or Thunderbolt 3 port. Connect the dock using the included USB-C cable, and add 14 ports to your device: 4K HDMI 4K DisplayPort 1080p VGARJ45 Gigabit Ethernet(2) USB 2.0(2) USB 3.2 Gen 1 USB 3.2 Gen 1 with 5V 1.5A (7.5W) charging USB-C PD 3.0 Charging up to 20V 5A (100W) USB-C 3.2 Gen 1 data 3.5 mm audio/headphone jack SD and Micro SD card slots

**Supports USB-C DisplayPort Alternate Mode for Transmitting Audio/Video Signals** By connecting the detachable USB-C host cable to a source device that supports USB DisplayPort Alt Mode, you can output 4K video and digital audio to a compatible monitor, television or projector without installing special software drivers.

**Transmits Crystal-Clear True 4K Video and Digital Audio with 4:4:4 Color** The DisplayPort (DP) output supports true 4K resolutions up to 4096 x 2160 at 30 Hz. The HDMI output supports Ultra HD resolutions up to 3840 x 2160 at 30 Hz. The VGA output supports high-definition resolutions up to 1920 x 1200, including 1080p, at 60 Hz. This docking station also supports 4:4:4 chroma subsampling for top-level PC gaming or using your HDTV as a PC monitor.

**DisplayPort SST and MST Modes Allow Connection of Multiple Displays** By connecting the detachable USB-C cable to a source that supports DisplayPort Single-Stream Transport (SST) or Multi-Stream Transport (MST) mode, you may connect up to three displays simultaneously. This allows you to display the same image on all monitors, extend your host desktop across all with different windows open on each, or combine all into one large display as a video wall. Connect multiple monitors in Extended (4K

## Highlights

- Utilizes MST Mode to extend a desktop at 720p resolution across HDMI, DisplayPort and VGA monitors simultaneously
- Mirrors 1080p video across HDMI, DisplayPort and VGA monitors simultaneously
- Supports 20V 5A (100W) power output for fast-charging large-capacity mobile devices
- Connects you to a wired 10/100/1000 Ethernet network when no Wi-Fi is available
- USB-C, USB-A and memory card ports allow connection of flash drives and other peripherals

## Applications

- Extend or mirror your laptop or PC monitor on multiple displays to aid in multitasking and increase productivity
- Save data to a USB-enabled thumb drive or external hard drive
- Access a wired Ethernet network in a location with no or spotty Wi-Fi
- Charge your notebook or laptop by connecting its wall charger to the USB-C PD Charging port
- Connect a microphone/headset to record a podcast or listen to music

## System Requirements

- Source device with USB-C or Thunderbolt 3 port that supports USB DisplayPort Alternate Mode
- Display device with DisplayPort, VGA and/or HDMI input

**Note:** It is recommended that the host PC allows for administrator access when connecting the dock for the first time. This allows for the built-in drivers to install in the background correctly. Failure to allow this connection to occur properly can result in device malfunctions including unresponsive ports, video transmission failure and inability to connect to a wired Ethernet network.

@ 30 Hz HDMI and 4K @ 30 Hz DP; 1080p HDMI and 1080p VGA; 1080p DP and 1080p VGA; or 720p HDMI, 720p DP and 720p VGA) and Mirror (4K @ 30 Hz HDMI and 4K @ 30 Hz DP; 1080p HDMI and 1080p VGA; 1080p DP and 1080p VGA; or 1080p HDMI, 1080p DP and 1080p VGA) modes. **Note:** macOS laptops or computers will only extend to one monitor. The others will be mirrored. Additionally, graphic limitation on the source may affect the quantity of monitors the dock can display. The source graphics card provides a limited bandwidth for each display.

**USB 3.2 Gen 1 and USB 2.0 Ports Connect Keyboards, Thumb Drives and Other Peripherals** Three USB 3.2 Gen 1 ports accept USB peripherals, such as flash drives, mice, keyboards and printers. They support fast data transfer rates up to 5 Gbps and are backward compatible with USB 2.0 and USB 1.1 devices. One also supports 5V 1.5A (7.5W) of power dedicated to fast-charging your mobile device. Two other ports are USB 2.0. **Note:** Host must support USB OTG (On-the-Go).

**PD Charging Port Charges the Connected Notebook, Tablet or Other Device** One USB-C port supports Power Delivery (PD) 3.0 charging of connected PD Charging-compliant devices, such as laptops, Kindles, iPads and Android smartphones. Connect the device's AC wall charger to the USB-C PD port, which supports power input up to 20V 5A (100W). This port, as well as the dock's other USB-C port, can also be used for transferring data up to 5 Gbps. PD 3.0 Fast Role Swap technology ensures all data and power connections remain stable if the wall charger becomes accidentally dislodged. **Note:** USB-C PD port does not support Quick Charge (QC).

**Accesses a Wired Gigabit Ethernet Network** The RJ45 port offers access to a Gigabit Ethernet network when Wi-Fi is unavailable or when a wired connection offers faster speeds. Connect using a UTP cable (sold separately), and enjoy true 10/100/1000 Mbps Ethernet speeds for fast data transfers.

**Connects Speakers, Microphone and Other Audio Equipment** The USB-C docking station's 3.5 mm mini stereo jack is convenient for connecting speakers, headphones or a microphone to your workstation. You can listen to music or record the latest episode of your podcast.

**Allows External Memory Access** The memory card slots support Micro SD and SD/MMC cards for transferring data to and from your connected computer, laptop or tablet. You can access both slots at the same time.

**Anti-Theft Lock Protects the USB-C Docking Station When You Aren't Around** Connect a user-supplied computer/laptop security cable lock (not included) to this port to protect your source device against theft.

**Ready to Use Right Out of the Package** The plug-and-play USB-C dock is specifically designed for use with Windows laptops and other notebooks, smartphones, tablets and devices equipped with a USB-C or Thunderbolt 3 port. Drivers will auto-install upon the initial connection to the host. Its compact footprint fits easily into your desk space without taking up much valuable room.

#### Package Includes

- U442-DOCK7D-B USB-C Dock, Triple Display, Black
- USB-C cable (M/M), 11-inch (0.27m)
- Owner's manual

## Specifications

OVERVIEW	
UPC Code	037332250698
Product Type	Docking Station
Technology	Cat5/5e; Cat6; Cat6a; DisplayPort; HDMI; Stereo Audio; Thunderbolt; USB; USB 2.0 (High Speed); USB 3.x
Country/Region	Global
Host Connector	USB C (MALE)
VIDEO	

Video Input	USB C (MALE)
Video Output	DISPLAYPORT (FEMALE); HD15 (FEMALE); HDMI (FEMALE)
Number of Monitors Supported	3
Video Ports	DISPLAYPORT (FEMALE); HDMI (FEMALE); HD15 (FEMALE)
Video Ports Details	DisplayPort 1.2; HDMI 1.4; HDCP 1.4
Resolutions Supported	DisplayPort: 4K 30Hz (4096 x 2160)HDMI: 4K 30Hz (3840 x 2160)VGA: 1920 x 1080 60Hz
Supported Resolutions	1280x720 (720p); 1920x1080 (1080p); 3840x2160 (4K)
Max Supported Video Resolution	HDMI/DP: 4096 x 2160 @30Hz, VGA: 1920 x 1080 @60Hz
Recommended Cabling	<a href="#">P568-Series 4K HDMI Cabling</a> <a href="#">P580-Series 4K DisplayPort Cabling</a> <a href="#">P502-Series 1080p VGA Cabling</a>
Extended Mode	Yes
Extended Mode Details	<p><b>Extend the Host Computer's Desktop Across Three Connected Displays with MST Mode</b></p> <p>The U442-DOCK7D-B supports both SST (Single Stream Transport) and MST (Multi Stream Transport) for transmitting video across multiple displays. Extend your desktop across three connected displays for increased productivity. The following video output combinations are supported: <b>MST Mode:</b>Single Output: 1x HDMI (4K/30 Hz); 1x DisplayPort (4K/30 Hz); 1x VGA (1080p/60 Hz)Dual Output: 1x HDMI (1080p/60 Hz) + 1x DisplayPort 1080p/60 Hz); 1x HDMI (1080p/60 Hz) + 1x VGA (1080p/60 Hz); 1x DisplayPort (1080p/60 Hz) + 1x VGA (1080p/60 Hz)Triple Output: 1x HDMI (720p/60 Hz) + 1x DisplayPort (720p/60 Hz) + 1x VGA (720p/60 Hz) <b>Note:</b> Video output quantity and quality is dictated by the host computer's graphic card and ability to support MST mode. Not all laptops are capable of transmitting video to its primary screen and three connected displays. If three connected displays are desired then the local screen needs to be turned off under the computer's video settings. Mac OS does not support MST mode and only supports SST mode for transmitting mirrored video content to connected displays.</p>
Mirror Mode	Yes
Mirror Mode Details	<p><b>Create Multiple Display Installations with Mirrored Video Content</b></p> <p>The U442-DOCK7D-B supports both SST (Single Stream Transport) and MST (Multi Stream Transport) for transmitting video across multiple displays. Video content can be mirrored across up to three connected displays under SST Mode. The following video combinations are supported: <b>SST Mode:</b>Single Output: 1x HDMI (4K/30 Hz); 1x DisplayPort (4K/30 Hz); 1x VGA (1080p/60 Hz)Dual Output: 1x HDMI (4K/30 Hz) + 1x DisplayPort (4K/30 Hz); 1x HDMI (1080p/60 Hz) + 1x VGA (1080p/60 Hz); 1x DisplayPort (1080p/60 Hz) + 1x VGA (1080p/60 Hz)Triple Output: 1x HDMI (1080p/60 Hz) + 1x DisplayPort (1080p/60 Hz) + 1x VGA (1080p/60 Hz) <b>Note:</b> Video output quantity and quality is dictated by the host computer's graphic card. Not all laptops are capable of transmitting video to its primary screen and three connected displays. If three connected displays are desired then the local screen needs to be turned off under the computer's video settings. Mac OS does not support MST mode and only supports SST mode for transmitting mirrored video content to connected displays.</p>
Max Supported Color Depth	24-bit True Color
HDR Support	No
3D Video Supported	No
Chroma Sub Sampling	4:4:4
EDID Support	No
DisplayPort Alt Mode	Yes
DSC Support	Yes
<b>AUDIO</b>	
Audio Ports	3.5MM (FEMALE)
Audio Ports Details	1x 3.5mm Combo Stereo Audio / Microphone Jack
Audio Specification	3.5mm combo stereo audio/microphone jack supports 48KHz and CTIA sound. HDMI, DisplayPort and VGA video ports can output sound by choosing desired output from PC's sound settings.

DATA	
Data Ports	(1) USB C (FEMALE); (5) USB A (FEMALE)
Data Ports Details	(1) USB-C - USB 3.2 Gen 1 (5 Gbps); (2) USB-A - USB 3.2 Gen 1 (5 Gbps); (3) USB-A - USB 2.0
NETWORK	
Network Ports	RJ45 (FEMALE)
STORAGE	
Card Slots	SD (FEMALE); MICRO SD (FEMALE)
Card Slots Details	SD 3.0 Memory Card slots (SD and MicroSD) can be used simultaneously
INPUT	
Bus Powered	Yes
BATTERY	
Battery Charging (5V/1.5A Port)	Yes
POWER	
Power Consumption (Watts)	18.00
USB Power Delivery (PD) Charging Support	Yes
USB Power Delivery (PD) Charging Specification	3.0
USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	Power (Blue), RJ45: White (Connected), Amber (Data)
CHARGING	
Number of Charging Ports	7
Total Charging Watts	100
Charging Port Type	(5) USB A (FEMALE); (2) USB C (FEMALE)
Charging Ports	USB-C: 100W (20V 5A) Power Delivery (PD 3.0); USB-A: 5V 1.5A (7.5W)
Charging Ports Details	x1 USB-C Power Delivery (PD) 3.0 Charging port provides up to 20V 5A (100W) of power to the connected host device x1 USB-C port supports 5V 1.5A (7.5W) charging to connected mobile device x1 USB-A port supports 5V 1.5A (7.5W) charging to connected mobile device x2 USB-A ports support 900mA charging of connected devices x2 USB-A ports support 500mA charging of connected devices The U442-DOCK7D-B supports Dynamic Current Detection and Power Distribution to intelligently distribute power between the host and connected devices as necessary
Charging Ports / Amps	1.5A; 5A
PHYSICAL	
Color	Black

Material of Construction	ABS
Cable Jacket Color	Black
Connector Color	Black
Cable Outer Diameter (OD)	4.2mm
Cable Length (ft.)	0.89
Cable Length (m)	0.27
Cable Length (in.)	10.66
Cable Length (cm)	27.1
Total Number of Ports	14
Shipping Dimensions (hwd / in.)	1.57 x 15.16 x 4.72
Unit Dimensions (hwd / in.)	0.740 x 13.780 x 2.910
Unit Dimensions (hwd / cm)	1.88 x 35 x 7.4
Unit Dimensions (hwd / mm)	18.8 x 350 x 74
Unit Packaging Type	Box
Unit Weight (lbs.)	0.55
Unit Weight (kg)	0.25
<b>ENVIRONMENTAL</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% to 85% RH, Non-Condensing
Storage Humidity Range	5% to 90% RH, Non-Condensing
Power Provided to Connected Device(s)	USB: 5V/1.5A (7.5W), USB-C: 20V/5A (100W)
<b>COMMUNICATIONS</b>	
Network Compatibility	1 Gbps (Gigabit)
<b>CONNECTIONS</b>	
Number of Ports	15
Ports	1
Ports Detail	Connect to a Gigabit Ethernet network using Cat6 cabling (such as Tripp Lite's <a href="#">N201-Series</a> , sold separately).
Dock Connectors	(2) USB-C, USB-C PD Charging, (2) USB-A 3.0, USB-A 3.0 BC 1.2, (2) USB-A 2.0, HDMI, DisplayPort, VGA, RJ45, MICRO SD, SD, 3.5mm
Side A - Connector 1	USB C (FEMALE)
Side B - Connector 1	3.5MM (FEMALE)
Side B - Connector 2	(3) USB 3.0 A (FEMALE); (2) USB A (FEMALE)

Side B - Connector 3	DISPLAYPORT (FEMALE); HD15 (FEMALE); HDMI (FEMALE)
Side B - Connector 4	MICRO SD (FEMALE); SD (FEMALE)
Side B - Connector 5	RJ45 (FEMALE)
Side B - Connector 6	(2) USB C (FEMALE)
Connector Plating	Nickel
Connector Type	Molded
Connector Style	Angled; Straight
<b>FEATURES &amp; SPECIFICATIONS</b>	
USB Hub Ports	Yes
Number of USB Hub Ports	6
USB Specification	USB 2.0 (up to 480 Mbps); USB 3.2 Gen 1 (up to 5 Gbps)
Data Transfer Rate	(2) 480 Mbps; (4) 5 Gbps
Integrated/Removable Cable	Yes
MST Support	Yes
Multi-Resolution Support	Yes
Cable Compatibility	Cat6 Patch Cables; 4K HDMI Cables; 4K DisplayPort Cables; 1080p VGA Cables; USB-A and USB-C Cables
Ethernet Support	Yes
UASP Support	No
Auto MDIX Support	Yes
Full Duplex Support	Yes
Suspend Mode Support	Yes
Remote Wakeup Support	Yes
SD Card Specification	SD; Micro SD
Displayport Specification	1.2
HDCP Specification	1.4
Driver Required	Yes
Recommended Category Cable	Cat6 Cables
Security Lock	Yes
Built-in Cable Management	Yes
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Certifications	ICES (Canada); NOM (Mexico)
Product Compliance	CE (Europe); FCC (USA); REACH; RoHS; UKCA
<b>WARRANTY &amp; SUPPORT</b>	



1000 Eaton Boulevard  
Cleveland, OH 44122  
United States

Product Warranty Period (Worldwide)	3-year limited warranty
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