Dell Thunderbolt Dock WD22TB4

User Guide

Regulatory Model: K20A Regulatory Type: K20A001 November 2023 Rev. A03



Notes, cautions, and warnings

(i) NOTE: A NOTE indicates important information that helps you make better use of your product.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

MARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Introduction

The Dell Thunderbolt Dock - WD22TB4 is a device that links all your electronic devices to your system using a Thunderbolt 4 (Type-C) cable interface. Connecting the system to the docking station allows you to easily connect multiple peripherals (mouse, keyboard, stereo speakers, external hard-drives, and high-resolution displays) without having to plug each one into the system.

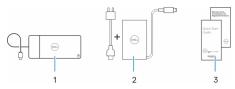
CAUTION: Update your system's BIOS, graphic drivers and the Dell Thunderbolt Dock drivers to the latest versions available at www.dell.com/support BEFORE using the docking station. Older BIOS versions and drivers could result in your system not recognizing the docking station or not functioning optimally. Always check if any recommended firmware is available for your docking station at www.dell.com/support.

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What's in the box

Your docking station ships with the components shown below:

- 1. Docking station
- 2. Power adapter and power cord
- 3. Documentation (Quick Start Guide and Safety, Environmental, and Regulatory Information)



(i) NOTE: Contact Dell support if any of the listed items are missing from your box.



Hardware requirements

Before using the docking station, ensure that your system has a USB Type-C with DisplayPort Alt Mode (supported) or Thunderbolt port (recommended) over USB Type-C that is designed to support the docking station.

Views of Dell Thunderbolt Dock - WD22TB4

Тор

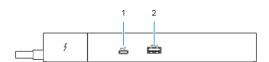


1. Sleep/Wake up/Power button

() NOTE: The dock button is designed to replicate your system's power button. If you connect the Dell Thunderbolt Dock WD22TB4 to supported Dell computers, the dock button works like your computer's power button and you can use it to power on/sleep/force shutdown the computer.

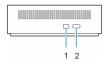
(i) NOTE: The dock button is only operational when connected to supported Dell computers.

Front



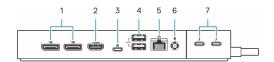
- 1. USB 3.2 Gen 2 Type-C port
- 2. USB 3.2 Gen 1 port with PowerShare

Right



- 1. Wedge-shaped lock slot
- 2. Kensington security-cable slot

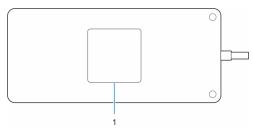
Back



- 1. DisplayPort 1.4 ports
- 2. HDMI 2.0 port
- 3. USB 3.2 Gen 2 Type-C port with DisplayPort 1.4 Alt Mode
- 4. USB 3.2 Gen 1 ports

- 5. Network connector (RJ-45)
- 6. Power connector
- 7. Thunderbolt 4 ports

Bottom



1. Service tag label

Important Information

Updating drivers on your system

It is recommended to update the following drivers on your system before using the docking station:

- 1. System BIOS
- 2. Graphics driver
- 3. Thunderbolt driver and Thunderbolt firmware
- 4. Ethernet driver

CAUTION: Older BIOS versions and drivers could result in the docking station not being recognized by your system or not functioning optimally.

For Dell systems, you can visit www.dell.com/support and enter the Service Tag or Express Service Code to find all relevant drivers. For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer.

For non-Dell systems, please visit the respective manufacturers support page to find the latest drivers.

Updating the Dell Thunderbolt Dock - WD22TB4 driver set

To ensure that the Dock functions correctly, it is recommends installing the latest firmware available for the WD22TB4. All available drivers can be found on www.dell.com/support.

Drivers and Downloads FAQ

When troubleshooting, downloading or installing drivers it is recommended that you read the Dell Knowledge Based article, Drivers and Downloads FAQ 000123347.

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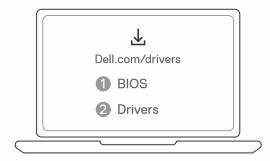
Setting up your docking station

Steps

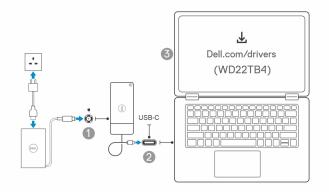
1. Update your system's BIOS, graphics, thunderbolt and network drivers from www.dell.com/support/drivers.

NOTE: Thunderbolt driver updates are only for systems that are natively configured with Thunderbolt hardware and is not applicable for Non-thunderbolt systems.

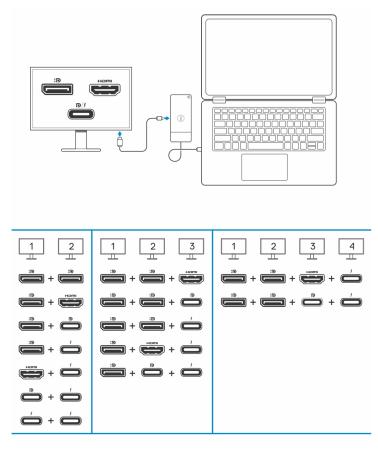
CAUTION: Ensure that the system is connected to a power source while installing the BIOS and drivers.



 Connect the AC adapter to a power outlet. Then, connect the AC adapter to the 7.4 mm DC-in power input on the Dell Thunderbolt Dock - WD22TB4.



- Connect the USB Type-C connector to the system.
 Update the Dell Thunderbolt Dock firmware from www.dell.com/support/drivers.
- **4.** Connect multiple displays to the docking station, as needed.



The above table shows the different video port combinations available to connect multiple displays to the Dell WD22TB4 dock. For more details on supported display resolutions, please see Display Resolution.



Setup of External Monitors

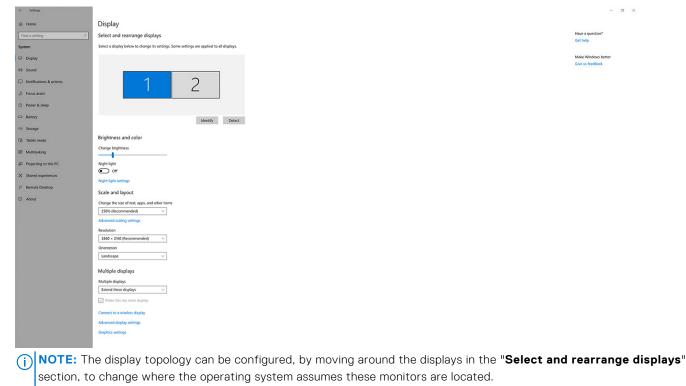
Configuring your Monitors

If connecting two displays, follow these steps:

Steps

- 1. Click the **Start** button, and then select **Settings**.
- 2. Click System and select Display.

3. Under the Multiplay displays section, modify the display configuration as needed.



Video connectors for multiple display setup

This topic provides details of the various video output configurations supported by your docking station.

Important information

The Dell WD22TB4 dock supports multiple video output configurations with 2, 3 and 4 external displays.

- (i) NOTE: The HDMI and MFDP USB Type-C ports on the back of the WD22TB4 are muxed. Only one of these two ports can be used at a time. If the HDMI port is in use, the USB Type-C port will still retain USB functionality.
- **NOTE:** The WD22TB4 supports non-Thunderbolt devices, but the connected devices will not support Thunderbolt features. Non-Thunderbolt devices connected to the two Thunderbolt ports at the back of the WD22TB4 supports USB 3.0 speeds.

(i) NOTE: When connected to a Thunderbolt compatible device, the two ports support 40 Gbps speeds.

Dual-display setup

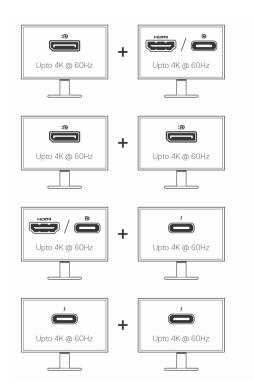


Table 1. Dual-display connection

Number of displays	Connector one	Connector two
Two (4K @60Hz)	DisplayPort 1.4	HDMI 2.0/MFDP Type-C
	DisplayPort 1.4	DisplayPort 1.4
	HDMI/MFDP Type-C	Thunderbolt Type-C port
	Thunderbolt Type-C ports	Thunderbolt Type-C port

Triple-display setup

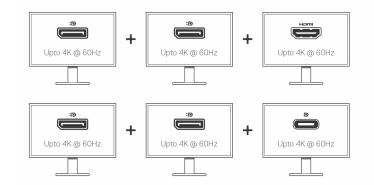


Table 2. Triple-display connection

Number of displays	Connector one	Connector two	Connector three
Three (4K @60Hz)	DisplayPort 1.4	DisplayPort 1.4	HDMI 2.0
	DisplayPort 1.4	DisplayPort 1.4	MFDP Type-C

Quad-display setup

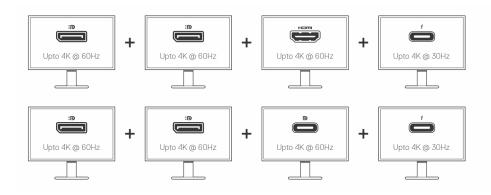


Table 3. Quad-display connection

Number of displays	Connector one	Connector two	Connector three	Connector four
Four (4K @60Hz)	DisplayPort 1.4	DisplayPort 1.4	HDMI 2.0	Thunderbolt Type-C
	DisplayPort 1.4	DisplayPort 1.4	MFDP Type-C	Thunderbolt Type-C

Display bandwidth

External monitors require a certain amount of bandwidth to work properly. Monitors with higher resolution require more bandwidth.

- DisplayPort High Bit Rate 2 (HBR2) is 5.4 Gbps maximum link rate per lane. With DP overhead, the effective data rate is 4.3 Gbps per lane.
- DisplayPort High Bit Rate 3 (HBR3) is 8.1 Gbps maximum link rate per lane. With DP overhead, the effective data rate is 6.5 Gbps per lane.

Table 4. Display bandwidth

Resolution	Minimum bandwidth required
1 x FHD (1920 x 1080) display @60 Hz	3.2 Gbps
1 x QHD (2560 x 1440) display @60 Hz	5.6 Gbps
1 x 4K (3840 x 2160) display @30 Hz	6.2 Gbps
1 x 4K (3840 x 2160) display @60 Hz	12.5 Gbps

Display Resolution Table

WD22TB4 for Non-Thunderbolt systems

Table 5. WD22TB4 for Non-Thunderbolt systems

Display Port Available Bandwidth	Single Display (maximum resolution)	Dual Display (maximum resolution)	Triple Display (maximum resolution)	Quad Display (maximum resolution)
HBR2 (HBR2 x 2 lanes - 8.6 Gbps)	DP 1.4/HDMI 2.0/ MFDP Type-C/TBT	 DP 1.4 + DP 1.4: FHD (1920 x 1080) @60 Hz 	• DP 1.4 + DP 1.4 + HDMI 2.0:	NA

Table 5. WD22TB4 for Non-Thunderbolt systems (continued)

Display Port Available Bandwidth	Single Display (maximum resolution)	Dual Display (maximum resolution)	Triple Display (maximum resolution)	Quad Display (maximum resolution)
	Type-C: 4K (3840 x 2160) @30 Hz	 DP 1.4 + HDMI 2.0: FHD (1920 x 1080) @60 Hz DP 1.4 + MFDP Type-C: FHD (1920 x 1080) @60 Hz 	 1 x FHD (1920 x 1080) @60 Hz 2 x HD (1280 x 720) @60 Hz DP 1.4 + DP 1.4 + MFDP Type-C: 1 x FHD (1920 x 1080) @60 Hz 2 x HD (1280 x 720) @60 Hz 	
HBR3 (HBR3 x 2 lanes - 12.9 Gbps)	DP 1.4/HDMI 2.0/ MFDP Type-C/TBT Type-C: 4K (3840 x 2160) @30 Hz	 DP 1.4 + DP 1.4: QHD (2560 x 1440) @60 Hz DP 1.4 + HDMI 2.0: QHD (2560 x 1440) @60 Hz DP 1.4 + MFDP Type-C: QHD (2560 x 1440) @60 Hz 	 DP 1.4 + DP 1.4 + HDMI 2.0: FHD (1920 x 1080) @60 Hz DP 1.4 + DP 1.4 + MFPD Type-C: FHD (1920 x 1080) @60 Hz 	 DP 1.4 + DP 1.4 + HDMI 2.0: 4 x SXGA (1280 x 1024) @60 Hz DP 1.4 + DP 1.4 + MFDP Type-C: 4 x SXGA (1280 x 1024) @60 Hz NOTE: The fourth display must be daisy-chained through one of the monitors connected to DP 1.4 port.
HBR3 with Display Stream Compression (DSC)	DP 1.4/HDMI 2.0/ MFDP Type-C: 4K (3840 x 2160) @60 Hz or TBT Type-C 4K (3840 x 2160) @30 Hz	 DP 1.4 + DP 1.4: 4K (3840 × 2160) @60 Hz DP 1.4 + HDMI 2.0: 4K (3840 × 2160) @60 Hz DP 1.4 + MFDP Type-C: 4K (3840 × 2160) @60 Hz 	 DP 1.4 + DP 1.4 + HDMI 2.0: QHD (2560 × 1440) @60 Hz DP 1.4 + DP 1.4 + MFPD Type-C: QHD (2560 × 1440) @60 Hz 	 DP 1.4 + DP 1.4 + HDMI 2.0: 3 x QHD (2560 x 1440) @60 Hz + 1 x HD (1280 x 720) @ 60 Hz DP 1.4 + DP 1.4 + MFDP Type-C: 3 x QHD (2560 x 1440) @60 Hz + 1 x HD (1280 x 720) @ 60 Hz NOTE: The fourth display must be daisy-chained through one of the monitors connected to DP 1.4 port.

WD22TB4 for Thunderbolt systems

Table 6. WD22TB4 for Thunderbolt systems

Display Port Available Bandwidth	Single Display (maximum resolution)	Dual Display (maximum resolution)	Triple Display (maximum resolution)	Quad Display (maximum resolution)
HBR2 (HBR2 x 8 lanes - 34.5 Gbps)	DP1.4 /HDMI 2.0/ MFDP Type-C/USB Type-C TB: 4K (3840 x 2160) @60 Hz	 DP 1.4 + DP 1.4: QHD (2560 x 1440) @60 Hz DP 1.4 + HDMI 2.0: QHD (2560 x 1440) @60 Hz DP 1.4 + MFDP Type-C: QHD (2560 x 1440) @60 Hz DP 1.4 + TBT Type-C: 4K (3840 x 2160) @60 Hz HDMI 2.0 + TBT Type-C: 4K (3840 x 2160) @60 Hz MFDP Type-C + TBT Type-C: 4K (3840 x 2160) @60 Hz 	 DP 1.4 + DP 1.4 + HDMI 2.0: 2 x QHD (2560 x 1440) @60 Hz + 1 x FHD (1920 x 1080) DP 1.4 + DP 1.4 + MFDP Type-C: 2 x QHD (2560 x 1440) @60 Hz 1 x FHD (1920 x 1080) DP 1.4 + DP 1.4 + TBT Type-C : 3 x QHD (2560 x 1440) @60 Hz DP 1.4 + MFDP Type-C + TBT Type-C: 3 x QHD (2560 x 1440) @60 Hz DP 1.4 + HDMI 2.0 + TBT Type-C: 3 x QHD (2560 x 1440) @60 Hz 	NA
HBR3 (HBR3 x 4 lanes + HBR3 x1 - 32.4 Gbps)	DP 1.4/HDMI 2.0/ MFDP Type-C/TBT Type-C: 4K (3840 x 2160) @60Hz	 DP 1.4 + DP 1.4: 4K (3840 x 2160) @60 Hz DP 1.4 + HDMI 2.0: 4K (3840 x 2160) @60 Hz DP 1.4 + MFDP Type-C: 4K (3840 x 2160) @60 Hz DP 1.4 + TBT Type-C: 1 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz HDMI 2.0 + TBT Type-C: 1 x 4K (3840 x 2160) @60 Hz HDMI 2.0 + TBT Type-C: 1 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz MFDP Type-C + TBT Type-C: 1 x 4K (3840 x 2160) @60 Hz MFDP Type-C + TBT Type-C: 1 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz 	 DP 1.4 + DP 1.4 + HDMI 2.0: 1 x 4K (3840 x 2160) @60 Hz 2 x QHD (2560 x 1440) @60 Hz DP 1.4 + DP 1.4 + MFDP Type-C: 1 x 4K (3840 x 2160) @60 Hz 2 x QHD (2560 x 1440) @60 Hz DP 1.4 + DP 1.4 + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz DP 1.4 + DP 1.4 + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz DP 1.4 + MFDP Type-C + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz DP 1.4 + HDMI 2.0 + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz DP 1.4 + HDMI 2.0 + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz DP 1.4 + MDMI 2.0 + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz DP 1.4 + MDMI 2.0 + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz DP 1.4 + MDMI 2.0 + TBT Type-C: 1 x QHD (2560 x 1440) @60 Hz 	 DP 1.4 + DP 1.4 + HDMI 2.0 + TBT Type- C: QHD (2560 x 1440) @60 Hz DP 1.4 + DP 1.4 + MFDP Type-C + TBT Type-C: QHD (2560 x 1440) @60 Hz

Table 6. WD22TB4 for Thunderbolt systems (continued)

Display Port Available Bandwidth	Single Display (maximum resolution)	Dual Display (maximum resolution)	Triple Display (maximum resolution)	Quad Display (maximum resolution)
HBR3 with DSC (Display Stream Compression)	DP 1.4/HDMI 2.0/ MFDP Type-C/TBT Type-C: 4K (3840 x 2160) @60Hz	 DP 1.4 + DP 1.4: 4K (3840 x 2160) @60 Hz DP 1.4 + HDMI 2.0: 4K (3840 x 2160) @60 Hz DP 1.4 + MFDP Type-C: 4K (3840 x 2160) @60 Hz DP 1.4 + TBT Type-C: 0 1 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz HDMI 2.0 + TBT Type-C: 0 1 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz MFDP Type-C + TBT Type-C: 0 1 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz 	 DP 1.4 + DP 1.4 + HDMI 2.0: 3 x 4K (3840 x 2160) @60 Hz DP 1.4 + DP 1.4 + MFDP Type-C: 3 x 4K (3840 x 2160) @60 Hz DP 1.4 + DP 1.4 + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz DP 1.4 + MFDP Type-C + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz DP 1.4 + HDMI 2.0 + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz DP 1.4 + DMI 2.0 + TBT Type-C: 2 x 4K (3840 x 2160) @60 Hz 1 x QHD (2560 x 1440) @60 Hz 1 x QHD (2560 x 1440) @60 Hz 	 DP 1.4 + DP 1.4 + HDW 2.0 + TBT Type-C: 3 x 4K (3840 x 2160) @60 Hz + 1 x QHD (2560 x 1440) @60 Hz or 3 x 4K (3840 x 2160) @60 Hz + 1 x 4K (3840 x 2160) @30 Hz DP 1.4 + DP 1.4 + MFDP Type-C + TBT Type-C: 3 x 4K (3840 x 2160) @60 Hz + 1 x QHD (2560 x 1440) @60 Hz or 3 x 4K (3840 x 2160) @60 Hz + 1 x 4K (3840 x 2160) @30 Hz DP 1.4 + DP 1.4 + HDN 2.0: 4 x 4K (3840 x 2160) @60 Hz NOTE: The fourth display must be a 4K DSC monitor daisy- chained through one of the monitors connected to the DP 1.4 port. DP 1.4 + DP 1.4 + MFDP Type-C: 4 x 4K (3840 x 2160) @60 Hz NOTE: The fourth display must be a 4K DSC monitor daisy- chained through one of the monitors connected to the DP 1.4 port. DP 1.4 + DP 1.4 + MFDP Type-C: 4 x 4K (3840 x 2160) @60 Hz NOTE: The fourth display must be a 4K DSC monitor daisy- chained through one of the monitors connected to the DP 1.4 port. DP 1.4 + DP 1.4 + TBT Type-C: 4 x 4K (3840 x 2160) @60 Hz NOTE: The fourth display must be a 4K NOTE: The fourth display must be a 4K

Table 6. WD22TB4 for Thunderbolt systems (continued)

Display Port Available Bandwidth	Single Display (maximum resolution)	Dual Display (maximum resolution)	Triple Display (maximum resolution)	Quad Display (maximum resolution)
				 DSC monitor daisy-chained through one of the monitors connected to the DP 1.4 port. DP 1.4 + DP 1.4 + HDMI 2.0 + TBT Type-C: 4 x 4K (3840 x 2160) @60 Hz NOTE: The TBT port must be connected to a DSC-capable 4K monitor. DP 1.4 + DP 1.4 + MFDP Type-C + TBT Type-C: 4 x 4K (3840 x 2160) @60 Hz NOTE: The TBT port must be connected to a DSC-capable 4K monitor. DP 1.4 + DP 1.4 + MFDP Type-C + TBT Type-C: 4 x 4K (3840 x 2160) @60 Hz NOTE: The TBT port must be connected to a DSC-capable 4K monitor. DP 1.4 x 2 (daisy-chain) + DP 1.4 x 2 (daisy-chain): 4 x 4K (3840 x 2160) @60 Hz - all four monitors should support DSC.

Port disablement

Table 7. Port disablement

Ports connected to display	Ports disabled
 Two DisplayPort 1.4 ports (rear) One HDMI 2.0 port (rear) One Thunderbolt 4 port (rear) 	Second Thunderbolt 4 Type-C port supports data only (rear)
Two Thunderbolt 4 Type-C port (rear)	 Two DisplayPort 1.4 ports (rear) One HDMI 2.0 port (rear) One USB 3.2 Gen 2 Type-C port with DisplayPort 1.4 Alt Mode

Important

() NOTE: HDMI 2.0 and MFDP (Multi-Function DisplayPort) Type-C ports on the back of are toggled. HDMI 2.0 and MFDP Type-C cannot support dual monitors simultaneously. Only one of these ports can be used at a time.

- () NOTE: If higher resolution monitors are used, the Graphics driver makes a judgment based on monitor specifications and display configurations. Some resolutions may not be supported and so will be removed from the Windows Display Control Panel.
- () NOTE: Linux operating system is unable to physically turn-off built-in display, the external display numbers will be one less than the display numbers listed in above tables.

(i) NOTE: Resolution support is also dependent on the monitor's Extended Display Identification Data (EDID) resolution.

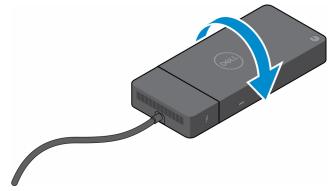
Replacing the USB Type-C cable module

Prerequisites

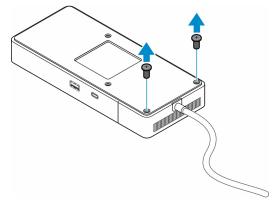
The Dell Thunderbolt Dock - WD22TB4 ships with a serviceable cable module. The USB Type-C cable module on the docking station can be removed and replaced by following these steps:

Steps

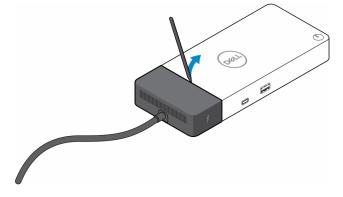
1. Turn over the docking station.



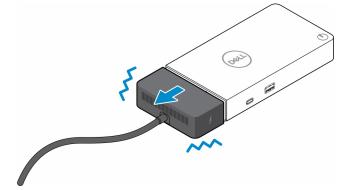
2. Remove the two (M2.5 x 5) screws from the bottom plate of the docking station.



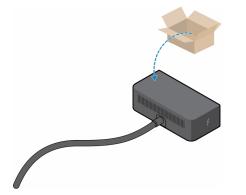
 ${\bf 3.}~$ Using a plastic scribe, gently pull the cable module away from the docking station.



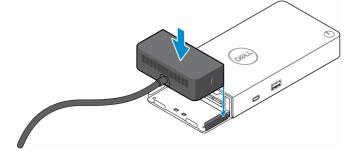
4. Gently wiggle and remove the USB Type-C cable module from its connector on the docking station.



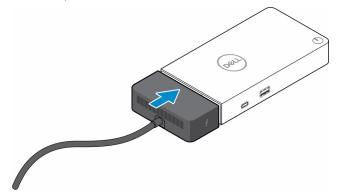
5. Take the replacement cable module out of its packaging.



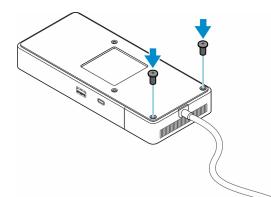
6. Align and place the cable module on to the docking station.



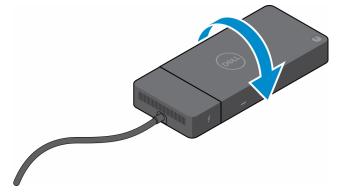
7. Slide and push the cable module to connect the cable module to the connectors on the docking station.



8. Replace the two (M2.5 x 5) screws to the bottom plate of the docking station.



9. Turn the docking station over.



Upgrading your WD19 docks

The following topics describes the process to upgrade the WD19 series docking stations.

Upgrade the cable module to Thunderbolt 4

The following docking stations are compatible with Thunderbolt 4 cable module as on the Dell Thunderbolt Dock - WD22TB4:

- 1. Dell Dock WD19
- 2. Dell Dock WD19S
- **3.** Dell Thunderbolt Dock WD19TB
- 4. Dell Thunderbolt Dock WD19TBS
- **5.** Dell Performance Dock WD19DC
- 6. Dell Performance Dock WD19DCS
- () NOTE: Before the cable module is replaced on these models, the dock firmware must be updated to the latest version available for WD22TB4 at www.dell.com/support. If this is not done, the docking stations will not function or may run with Thunderbolt 4 capabilities disabled.
- **NOTE:** Once the cable module is replaced, the firmware on the docking stations must be updated again to the latest available for the Dell Thunderbolt Dock WD22TB4.
- **NOTE:** A few WD19 docking stations variants ship with a 130 W AC adapter. After upgrading to the Thunderbolt 4 cable module, the docking station will require a 180 W AC adapter to function as the Dell Thunderbolt Dock WD22TB4.

Table 8. Firmware update requirements when upgrading to the WD22TB4 cable module

		Firmware update before upgrading cable module	Firmware update after upgrading cable module		
 Dell Dock - WD19 Dell Dock - WD19S 	WD22TB4 cable module	Required	Required		

Table 8. Firmware update requirements when upgrading to the WD22TB4 cable module (continued)

Original dock	New module	Firmware update before upgrading cable module	Firmware update after upgrading cable module
3. Dell Thunderbolt Dock - WD19TB			
 Dell Thunderbolt Dock - WD19TBS 			
 Dell Performance Dock - WD19DC Dell Performance Dock - WD19DCS 			
Dell Thunderbolt Dock - WD22TB4	WD22TB4 cable module	Not required	Not required
Dell Thunderbolt Dock - WD22TB4	WD19 cable module	Not required	Not required

Technical specifications

Product specifications

Table 9. Product specifications

Feature	Specifications
Model	WD22TB4
Video ports	 1 x USB 3.2 Gen2 Type-C with DisplayPort 1.4 Alt Mode 2 x DisplayPort 1.4 1 x HDMI 2.0 2 x Type-C with Thunderbolt 4 port (connected to a Thunderbolt 4 host)
External displays supported	Up to 4
USB Type-A ports	 2 x USB 3.2 Gen1 1 x USB 3.2 Gen1 with PowerShare
USB Type-C ports	 1 x USB 3.2 Gen2 Type-C 2 x Type-C with Thunderbolt 4 port (connected to a Thunderbolt 4 host) NOTE: On non-thunderbolt systems, the ports function as USB Type-C ports. 1 x USB 3.2 Gen2 Type-C with DisplayPort 1.4 Alt Mode
Network	Gigabit Ethernet (RJ-45)
	Support Wake On LAN from S0, S3, S4, or S5 sleep state with select Dell systems. See platform setup guide for more details. Support MAC Address Pass-Through with select Dell systems. See platform setup guide for more details.
LED indicators	 Power button LED Power adapter LED Docking cable connector LED RJ-45 LEDs
AC adapter options	180 W
Dimensions	205 mm x 90 mm x 29 mm 8.07 in. x 3.54 in. x 1.14 in.
Weight	650 g (1.43 lb)
DC-in Port	7.4 mm
Cable	0.8 m for WD22TB4
Power delivery	 130 W to Dell systems with 180 W AC-adapter 90 W to Non-Dell system with 180 W AC-adapter

Table 9. Product specifications (continued)

Feature	Specifications
System requirements	Compatible with USB Type-C Thunderbolt systems and USB Type-C systems with DisplayPort Alt Mode
Power button function	Sleep/Wakeup/Power button () NOTE: On compatible Dell systems, the power button mimics the host power button behavior.
Operating systems	 Windows 10 Windows 11 Ubuntu 20.04 and later version Chrome OS M107 or later
Systems management	 Wireless vPro supported by the notebook, tablet, or workstation Kernel Direct Memory Access (DMA) protection
MAC address	Pass-through MAC address (i) NOTE: On Dell systems, check the BIOS to confirm MAC address pass-through support.

Power adapter specifications

Table 10. Power adapter specifications

Dell AC Adapter Specifications	180 W
Input voltage	100 to 240 VAC
Input current (max)	2.34 A
Input frequency	50 to 60 Hz
Output current	9.23 A (continuous)
Rated output voltage	19.5 VDC
Weight (lb)	1.32
Weight (kg)	0.60
Dimensions (in.)	1.18 x 3.0 x 6.1
Dimensions (mm)	30 x 76.2 x 155
Temperature range operating	0°C to 40°C
	32°F to 104°F
Storage	-40°C to 70°C
	-40°F to 158°F

Port disablement

Port Disablement is a system feature that enables user to selectively disable DisplayPort or Thunderbolt protocols over USB Type-C ports.

- The feature is offered through BIOS and requires user to boot to BIOS Setup Menu to activate/deactivate the feature.
- Port Disablement is handled at low level and cannot be deactivated by operating system.
- The Port Disablement is extended to Dell Docks by importing system configuration and applying the settings locally.

New Gen MFDP (Multi-Function Display Port) Systems

New generation of systems with MFDP Type-C ports offers following configuration options in BIOS:

- 1. Enable/Disable External USB Port to enable/disable USB protocol over USB Type-A and Type-C ports.
- 2. Enable/Disable Integrated NIC (this setting will be imported by Dock).

The table below illustrates how those settings will affect functionality of the Dock:

Table 11. New Gen MFDP (Multi-Function Display Port) Systems

	MFD	MFDP system Docked system configuration			Dell WD22TB	4 Dock					
	BIOS setup options BIOS setup options Thunde rbolt Module					Base					
Case	Enable externa I USB ports	Disable USB4 PCle Tunneling	Dock Overrid e	System Dock port power delivery modes	Thunde rbolt port	LAN	Video ports	Type-C MFDP port	Type-C USB port	Type-A USB port	
1	Off I	NA	Off	Power only	Power only	Disabled	Disabled	Disabled	Disabled	Disabled	
			On	USB4/ DP/USB	DP	By system setup	DP/HDMI	DP	Disabled	Disabled	
2	On	Off	Off	USB4/ DP/USB	USB4/ DP/USB	Enabled	DP/HDMI	DP/USB	USB3/ USB2	USB3/ USB2	
			On	USB4/ DP/USB	USB4/ DP/USB	By system setup	DP/HDMI	DP/USB	USB3/ USB2	USB3/ USB2	
		On	Off	USB4/ DP/USB	USB4/ DP/USB	Enabled	DP/HDMI	DP/USB	USB3/ USB2	USB3/ USB2	
			On	USB4/ DP/USB	USB4/ DP/USB	By system setup	DP/HDMI	DP/USB	USB3/ USB2	USB3/ USB2	

New Gen TBT (Thunderbolt) Systems

New generation of systems with Thunderbolt ports offers following configuration options in BIOS:

- 1. Enable/Disable Thunderbolt to activate Thunderbolt Controller and enable Thunderbolt protocol over USB Type-C port.
- 2. Enable/Disable External USB Port to enable USB protocol over USB Type-A and Type-C ports.
- 3. Enable/Disable Integrated NIC (this setting will be imported by Dock).

The table below illustrates how those settings will affect functionality of the Dock:

Table 12. New Gen TBT (Thunderbolt) Systems

		MFD	P system		-	cked	Dell WD22TB4 Dock						
		BIOS se	tup optio	ns	system configuration		Thund erbolt Modul e	t					
Case	Enabl e exter nal USB ports	Video & power only	Enable Thunde rbolt	Disable USB4 PCle Tunnelin g	Dock Overri de	Syste m Dock port power deliver	Thund erbolt port	LAN	Video ports	Type- C MFDP port	Type- C USB port	Type- A USB port	

		MFDP system				Docked		Dell WD22TB4 Dock						
		BIOS setup options				system configuration		Base						
						y modes								
1	Off	NA	NA	NA	Off	Power only	Power only	Disable d	Disabled	Disable d	Disable d	Disable d		
					On	USB4/ DP/ USB	DP	By system setup	DP/HDMI	DP	Disable d	Disable d		
2	On	On	NA	NA	Off	DP	DP	Disable d	DP/HDMI	DP	Disable d	Disable d		
					On	USB4/ TBT/ DP/ USB	DP	By system setup	DP/HDMI	DP	Disable d	Disable d		
3	3 On	Off	On	Off	Off	USB4/ TBT/ DP/ USB	USB4/ TBT/ DP/ USB	Enabled	DP/HDMI	DP/ USB	USB3/ USB2	USB3/ USB2		
					On	USB4/ TBT/ DP/ USB	USB4/ TBT/ DP/ USB	By system setup	DP/HDMI	DP/ USB	USB3/ USB2	USB3/ USB2		
4a	On	Off	Off	Off	Off	USB4/ TBT/ DP/ USB	USB4/ TBT/ DP/ USB	Enabled	DP/HDMI	DP/ USB	USB3/ USB2	USB3/ USB2		
					On	USB4/ TBT/ DP/ USB	USB4/ TBT/ DP/ USB	By system setup	DP/HDMI	DP/ USB	USB3/ USB2	USB3/ USB2		
4b	On	Off	On	On	Off	USB4/ TBT/ DP/ USB	USB4/ TBT/ DP/ USB	Enabled	DP/HDMI	DP/ USB	USB3/ USB2	USB3/ USB2		
					On	USB4/ TBT/ DP/ USB	USB4/ TBT/ DP/ USB	By system setup	DP/HDMI	DP/ USB	USB3/ USB2	USB3/ USB2		

Table 12. New Gen TBT (Thunderbolt) Systems (continued)

() NOTE: PCle tunneling is disabled so downstream PCle devices won't be functional, no native Thunderbolt3 devices will be active.

(i) NOTE: With Disable PCIe Tunneling Enabled, Dock Override shouldn't be allowed.

Legacy Thunderbolt systems

Legacy systems offer one extra option that was rarely used but made configuration very complex:

- 1. Enable/Disable Thunderbolt to activate Thunderbolt Controller and enable Thunderbolt protocol over USB Type-C port.
- 2. Enable/Disable External USB Port to enable USB protocol over USB Type-A and Type-C ports.

- **3.** Enable Dell Docks dynamic override to extend system settings to boundary of the dock (dock port connected to Dell Dock was fully functional and Dock took care about handling dock port disablement locally).
- 4. Enable/Disable Integrated NIC (this setting will be imported by Dock).

The table below illustrates how those settings would affect functionality of the WD22TB4 Dock (for reference only, please consult Dell Customer service for more details):

	۲	TBT system	า	Docked	Dell WD22TB4 Dock								
	BIOS	6 setup opt	ions	system configura tion	onfigura Thunderbolt Module,			Base					
Case	Extern al USB	Thunder bolt	Overri de to allow Dell dock	System Dock port power delivery modes	Type- C Thund erbolt port	DP	USB	LAN	Video ports	Type- C MFDP port	Type A and Type- C USB ports		
1	On	On	N/A	TBT/DP/ USB	Workin g	Working	Working	By system setup	Enable d	DP/ USB	Enable d		
2	On	Off	On	TBT/DP/ USB	No functio n	Working	Working	By system setup	Enable d	DP/ USB	Enable d		
3	Off	On	On	TBT/DP/ USB	Worki ng	Working	No function	By system setup	Enable d	DP mode	Disabl ed		
4	Off	Off	On	TBT/DP/ USB	No functio n	Working	No function	By system setup	Enable d	DP mode	Disable d		
5	On	Off	Off	TBT/DP/ USB	No functio n	Working	Working	By system setup	Enable d	DP/ USB	Enable d		
6	Off	On	Off	TBT/DP/ USB	Worki ng	Working	No function	By system setup	Enable d	DP mode	Disabl ed		
7	Off	Off	Off	TBT/DP/ USB	No functio n	Working	No function	Disabled	Enable d	DP mode	Disable d		

Table 13. Legacy Thunderbolt systems

LED Status Indicators

Power Adapter LED

Table 14. Power Adapter LED indicator

State	LED Behavior
Power Adapter is plugged into wall socket	Flash three times

Docking Status Indicator

Table 15. Docking Station LED Indicators

State	LED Behavior
Docking station is receiving power from power adapter	Flash three times

Table 16. Cable LED Indicators

State	LED Behavior
USB Type-C host supports video + data + power	On
USB Type-C host does not support video + data + power	Off (will not illuminate)

Table 17. RJ-45 LED Indicators

Link Speed Indicators	Ethernet Activity Indicator
10 Mb = Green	Amber Flashing
100 Mb = Amber	
1 Gb = Green + Orange	

Dell ExpressCharge and ExpressCharge Boost overview

- Dell ExpressCharge enables an empty battery to charge to 80% in about one hour when the system is turned off and to 100% in approximately two hours.
- Dell ExpressCharge Boost enables an empty battery to charge to 35% in 15 minutes.
- Metrics are created for **system off** given charge time with the system on has varied results.
- Customers must enable ExpressCharge mode in the BIOS or through Dell Power Manager to take advantage of these features.
- Check your Dell Latitude, XPS or Precision system for the battery size using the table to determine compatibility.

Table 18. Dell ExpressCharge compatibility

Power Delivery to System	Max Battery Size for ExpressCharge	Max Battery Size for ExpressCharge Boost
90 W with 130 W adapter	92 Whr	53 Whr
130 W with 180 W adapter	100 Whr	76 Whr

Docking specifications

Table 19. Operating and storage environment

 Storage: -20°C to 60°C (-4°F to 140°F) Shipping: -20°C to 60°C (-4°F to 140°F)
 Storage: 5% to 90% (non-condensing) Shipping: 5% to 90% (non-condensing)

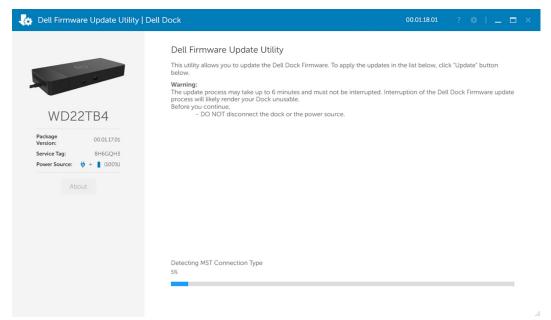
Dell docking station firmware update

Standalone Dock Firmware Update utility

() **NOTE:** Information that is provided is for Windows users running the executable tool. For other operating systems or further detailed instructions see the WD22TB4 admin guide available on www.dell.com/support.

Download the Dell WD22TB4 dock driver and firmware update from www.dell.com/support. Connect the dock to the system and start the tool in administrative mode.

1. Wait for all the information to be entered in the various Graphical User Interface (GUI) panes.



2. Update and Exit buttons are displayed in the bottom-right corner. Click the Update button.

🖕 Dell Firmware Update Utility D	vell Dock			00.01.18.01	? 🔶 🗆 🗆
WD22TB4	Dell Firmware Update Ut This utility allows you to update the below. Warning: The update process may take up to process will likely render your Dock Before you continue. - DO NOT disconnect the	6 minutes and mu cunusable.	st not be interrupte		
Package 00.01.17.01 Version: 00.01.17.01 Service Tag: 8H6GQH3 Power Source:	Status A Payload Name WD22TB4 MST	Current Version	New Version 05.06.01	Progress Details	
About	Gen1 Hub	01.21	01.21		
About	Gen2 Hub	01.47	01.47		
	WD22TB4 Dock NVM	36.00	36.00		
	WD22TB4 Dock Ec	00.00.02.14	00.00.02.15		
				Update	Exit

3. Wait for all the component firmware update to complete. A progress bar is displayed in the bottom.

Dell Firmware Update Utility D	ell Dock				00.01.18.01	-? ♦ _ □ >
WD22TB4	This utility al below. Warning: The update p process will Before you c	process may take up to likely render your Dock	6 minutes and mu cunusable.	ist not be interrupte	dates in the list below, clic ed. Interruption of the Dell	
Package 00.01.17.01	Status 🔨	Payload Name	Current Version	New Version	Progress Details	
Service Tag: 8H6GQH3	×	WD22TB4 MST	05.06.01	05.06.01	Up To Date	
Power Source: 👙 + 📋 (100%)	×	Gen1 Hub	01.21	01.21	Up To Date	
About	~	Gen2 Hub	01.47	01.47	Up To Date	
	×	WD22TB4 Dock NVM	36.00	36.00	Up To Date	
	٠	WD22TB4 Dock Ec	00.00.02.14	00.00.02.15	Updating Firmware.	
	Updating De 25%	ll Dock EC Firmware				
					Update	Exit

4. The update status is displayed above the payload information.

	Dell Firm	ware Update Ut	ility			
600	This utility al below.	lows you to update the	e Dell Dock Firmwa	re. To apply the u	updates in the list below, o	lick "Update" button
WD22TB4	process will Before you o	likely render your Docl	k unusable.		oted. Interruption of the D	Dell Dock Firmware update
Package 00.01.17.01	i Not	e: Firmware update wa	s successful.			
Version: 00.0117.01 Service Tag: 8H6GQH3 Power Source: \$\$\phi\$ + \$\$\$\$\$ (100%)	Status 🔺	Payload Name	Current Version	New Version	Progress Details	
_	~	WD22TB4 MST	05.06.01	05.06.01	Up To Date	
About	×	Gen1 Hub	01.21	01.21	Up To Date	
	~	Gen2 Hub	01.47	01.47	Up To Date	
	×	WD22TB4 Dock NVM	36.00	36.00	Up To Date	
	×	WD22TB4 Dock Ec	00.00.02.14	00.00.02.15	Updated.	

Table 20. Command-Line Options

Command lines	Function
/? or /h	Usage.
/s	Silent.
/l= <filename></filename>	Log file.
/verflashexe	Display utility version.
/componentsvers	Display current version of all dock firmware components.

For IT professionals and engineers, to get more information about the following technical topics, see the Dell Docking Station Admin's Guide:

- Step-by-step standalone DFU (Dock Firmware Update) and driver update utilities.
- Using DCU (Dell Command | Update) for driver download.

• Dock asset management locally and remotely through DCM (Dell Command | Monitor) and SCCM (System Center Configuration Manager).

Frequently asked questions

1. Fans not working, abnormal, or loud fan noise, overheating:

Fans that continue to spin quickly and make abnormally loud noises might indicate a problem. Common causes for fans not working, abnormal, or loud fan noise, overheating:

- Fans or air vents that are obstructed
- Dust accumulation on vents or fans
- Not enough ventilation
- Physical damage
- Out-of-date BIOS and device drivers

2. Fan noise heard when the AC adapter is plugged into the dock:

• When plugging in the AC adapter and powering on the docking station, the fan turns on for sometime and subsequently powers down. This is by design and the docking stations is working as expected.

3. What is the charging station feature?

- The Dell Thunderbolt Dock WD22TB4 can charge your phone or other USB powered devices even without being connected to the system. However, the AC adapter must be connected to the docking stations for this to work.
- 4. Why am I asked to approve Thunderbolt Devices after the Windows logon and what should I do?
 - This is for Thunderbolt security. You are asked to approve a Thunderbolt device because the Thunderbolt Security level on your unit is set to "User Authorization" or "Secure Connect" in BIOS Setup. You will not see this page if the Thunderbolt Security level on your system is set to "No Security" or "DisplayPort Only". Also, if you checked "Enable Thunderbolt Boot Support" in the BIOS Setup and power-on the system with the WD22TB4 dock attached, you will not see this page because the Security level is overridden to "No Security" in this case. When you are asked to approve a Thunderbolt device, you may select "Always Connect" if you do not have any security concerns to always allow the Thunderbolt device connection to your system. Or you may select "Connect Only Once" or "Do Not Connect" if you do have concerns.

5. Why does the hardware installation window show up when I plug in a USB device to the docking stations ports?

• When a new device is plugged in, the USB hub driver notifies the Plug and Play (PnP) manager that a new device was detected. The PnP manager queries the hub driver for all of the device's hardware IDs and then notifies the Windows OS that a new device needs to be installed. In this scenario, the user will see a hardware installation window.

6. Why do the peripheral devices connected to the dock station become unresponsive after recovering from a power loss?

- The docking station is designed to operate on AC power only and it does not support system power source back (powered by system Type-C port). A power loss event will disconnect all devices connected to the dock. Even when you restore the AC power, the dock may still not function properly because the dock still needs to negotiate proper power contract with the system's Type-C port and establish a system EC-to-dock-EC connection.
- Disconnect and reconnect the AC adapter from the back of the docking station to fix this issue.
- 7. Entering the BIOS setup using F2 or F12 does not work at POST from an external keyboard attached to the dock. It boots to the operating system and the keyboard and mouse only work after the operating system boots.
 - To enable pre-boot setup options using F2 and F12 from the dock, you must enable boot support for thunderbolt devices and must set fast boot to **Enabled** or **Auto Enabled** in the BIOS.

Troubleshooting the Dell Thunderbolt Dock -WD22TB4

Symptoms and solutions

Table 21. Symptoms and solutions

Symptoms	Suggested solutions
1. No video on the monitors attached to the High Definition Multimedia Interface (HDMI), or DisplayPort (DP) port on the docking station.	 Ensure that the latest BIOS and drivers for your computer and the docking station are installed on your computer. Make sure your computer is connected to the docking station securely. Try to disconnect and reconnect the docking station to the notebook computer. Disconnect both ends of the video cable and check for damaged/bent pins. Securely re-connect the cable to the monitor and docking station. Make sure the video cable (HDMI, or DisplayPort) is connected properly to the monitor and the docking station. Ensure to select the correct video source on your monitor (refer to your monitor's documentation for more information about changing the video source). Check the resolution settings on your computer. Your monitor may support higher resolutions than what the docking station is able to support. Please see the Display Resolution Table for more information on maximum resolution capacity. If your monitor is connected to the docking station, the video output using the Intel Graphics Control Panel or refer to the User Guide of your computer. If only one monitor is shown, while the other is not, go to Windows Display Properties, and under Multiple Displays, select the output for the second monitor. Using Intel graphics and using the system LCD, only two displays can be supported. For Nvidia or AMD discrete graphics, the dock supports three external displays plus the system LCD. Try with a different monitor and cable that is known to be good, if possible.
2. The video on the attached monitor is distorted or flickering.	 Reset the monitor to Factory Defaults. Refer to the User Guide of your monitor for more information on how to reset the monitor to factory defaults. Ensure that the video cable (HDMI, or DisplayPort) is connected securely to the monitor and the docking station. Disconnect and reconnect the monitor/s from the docking station. First power off the docking station by disconnecting the Type-C cable and then removing the power adapter from the dock. Then, power on the docking station by connecting power adapter to the dock before connecting the Type-C cable to your computer.

Table 21. Symptoms and solutions (continued)

Symptoms	Suggested solutions
	• Undock and reboot the system if, the above steps do not work.
3. The video on the attached monitor is not displaying as an Extended Monitor.	 Ensure that the Intel HD Graphics driver is installed in the Windows Device Manager. Ensure that the nVidia or AMD Graphics driver is installed in the Windows Device Manager. Open the Windows Display Properties and go to Multiple Displays control to set the display to the extended mode.
4. The USB ports are not functioning on the docking station.	 Ensure that the latest BIOS and drivers for your computer and the docking station are installed on your computer. If your BIOS Setup has a USB Enabled/Disabled option, make sure it is set to Enabled. Verify if the device is detected in Windows Device Manager and that the correct device drivers are installed. Ensure that the docking station is connected securely to the notebook computer. Try to disconnect and reconnect the docking station to the computer. Check the USB ports. Try plugging the USB device into another port. First power off the docking station by disconnecting the Type-C cable and then removing the power adapter from the dock. Then, power on the docking station by connecting the power adapter to the dock before connecting the Type-C cable to your computer.
5. The High-Bandwidth Digital Content Protection (HDCP) content is not displayed on the attached monitor.	Dell Dock supports HDCP upto HDCP 2.2. NOTE: User's monitor/display must support HDCP 2.2
6. The LAN port is not functioning.	 Ensure that the latest BIOS and drivers for your computer and the docking station are installed on your computer. Ensure that the RealTek Gigabit Ethernet Controller is installed in the Windows Device Manager. If your BIOS Setup has a LAN/GBE Enabled/Disabled option, make sure it is set to Enabled Ensure that the Ethernet cable is connected securely on the docking station and the hub/router/firewall. Check the status LED of the Ethernet cable to confirm connectivity. Re-connect both ends of the Ethernet cable if the LED is not lit. First power off the docking station by disconnecting the Type-C cable and then removing the power adapter from the dock. Then, power on the docking station by connecting the power adapter to the dock before connecting the Type-C cable to your computer.
7. Cable LED is not ON after it is connected to your host.	 Make sure the WD22TB4 is connected to AC power. Make sure the laptop is connected with the docking station. Try to disconnect and re-connect again with the docking station. Make sure that the host port supports MFDP.
8. USB port has no function in a pre-OS environment.	 Check the BIOS > Integrated Devices for USB/ Thunderbolt Configuration options, and make sure the following options are checked: 1. Enable USB Boot Support 2. Enable External USB Port 3. Enable Thunderbolt Boot Support

Table 21. Symptoms and solutions (continued)

Symptoms	Suggested solutions
9. PXE boot on dock does not function.	 Check the BIOS > System Management for integrated NIC options, and select Enabled w/PXE. If your BIOS Setup on your computer has an USB/ Thunderbolt Configuration page, please make sure the following options are checked: 1. Enable USB Boot Support 2. Enable Thunderbolt Boot Support
10. USB Boot does not function.	 If your BIOS has an USB/Thunderbolt Configuration page, please make sure the following options are checked: 1. Enable USB Boot Support 2. Enable External USB Port 3. Enable Thunderbolt Boot Support
11. AC Adapter is displayed as "Not Installed" in the Battery Information page of the Dell BIOS Setup when the Type-C/ Thunderbolt 3 Type-C cable is connected.	 1. Make sure the WD22TB4 is connected properly to its own adapter (130 W). 2. Make sure the cable LED of your docking station is ON. 3. Disconnect and then re-connect the Type-C/ Thunderbolt 4 (Type-C) cable to your computer.
12. Peripherals connected to the docking station do not work in a pre-OS environment.	 Thunderbolt Boot Support is by default disabled in BIOS Setup on your Dell computer. With such default setting the docking station and the peripherals connected to the docking station do not work in a pre-OS environment. If the BIOS Setup on your computer has an USB/ Thunderbolt Configuration page, check the following options to enable docking station function in a pre-OS environment: Enable External USB Port Enable Thunderbolt Boot Support
13. Alert message "You have attached an undersized power adapter to your system or Undersized adapter" is displayed when the docking station is connected to your computer.	 Make sure the docking station is connected properly to its own power adapter. Computers that require more than 130 W power input must also be connected to their own power adapter for charging and optimal performance.
14. Undersized power adapter warning message displayed and cable LED is off.	• The docking connector has disconnected from the system's USB/Thunderbolt ports. Please reconnect the docking cable from the system, wait for 15 seconds or more, and then dock again.
15. No external display. USB or data and cable LED is off.	 The docking connector has disconnected from the system's USB/Thunderbolt ports. Please reconnect the docking connector. Undock and reboot the system if the above steps do not work.
16. When system or dock is moved the cable LED turns off.	• Avoid moving the system/dock when the docking cable is connected to the system.
17. With Ubuntu 18.04 LTS, WIFI will be turned off when the docking station is connected to the system and the WIFI turns On again after rebooting the system.	 Please uncheck the option Control WLAN radio in BIOS. Option is available in - Settings -> Power Management -> Wireless Radio Control
18. When WD22TB4 dock has no power.	 Disconnect USB Type-C from the system and the WD22TB4 power adapter. Re-plug the WD22TB4 AC adapter. WD22TB4 dock LED blinks 3 times.
19. When WD22TB4 dock is not working even when BIOS, firmware and drivers are up to date.	Check BIOS/Firmware/Driver is updated. If Yes:

Table 21. Symptoms and solutions (continued)

Symptoms	Suggested solutions
	Restart the dock.
	If Yes: • Re-plug the docking AC adapter • Restart the dock.
	 If Yes: Re-plug the docking AC adapter Restart the dock. If the dock does not respond Enable WD22TB4 display support matrix Restart the dock

Getting help and contacting Dell

Self-help resources

You can get information and help on Dell products and services using these self-help resources:

Table 22. Self-help resources

Self-help resources	Resource location		
Information about Dell products and services	www.dell.com		
My Dell app	Deel		
Tips	· •		
Contact Support	In Windows search, type Contact Support, and press Enter.		
Online help for operating system	www.dell.com/support/windows		
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals and documents.	Your Dell computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at www.dell.com/support. For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer.		
Dell knowledge base articles for a variety of computer concerns	 Go to www.dell.com/support. On the menu bar at the top of the Support page, select Support > Knowledge Base. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles. 		

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

(i) NOTE: Availability varies by country/region and product, and some services may not be available in your country/region.

NOTE: If you do not have an active Internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell product catalog.