ThinkPad Thunderbolt 4 Dock Gen 2 7000, ThinkPad Thunderbolt 4 Smart Dock Gen 2 7500
User Guide



https://www.lenovo.com/safety

Note:

Before using this documentation and the product it supports, ensure that you read and understand the warranty information in the documentation that comes with the product.

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Chapter 1 About the dock

Thanks for using ThinkPad Thunderbolt 4 Dock Gen 2 7000 / ThinkPad Thunderbolt 4 Smart Dock Gen 2 7500. Illustrations in this documentation might look different from your product.

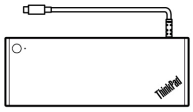
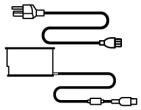
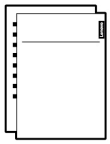
This dock is an enhanced universal compatible module to help you expand your computer with automated and silent updates. You can use it to connect your computer to a local area network (LAN) and multiple devices, such as a headset, external displays, and Universal Serial Bus (USB) devices.

To view the compatible computers,

1. Go to https://support.lenovo.com/us/en/solutions/accs-guide.
2. Select **ThinkPad, ThinkCentre, ThinkStation, Ideapad and Ideacentre Option Compatibility Matrix**. Then follow the on-screen instructions.

In the box

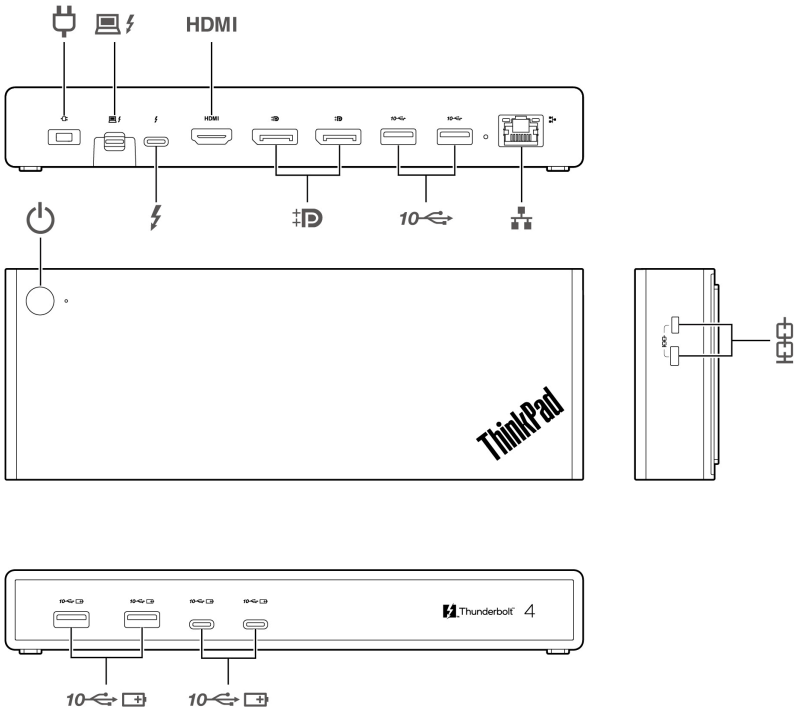
- ThinkPad Thunderbolt 4 Dock Gen 2 7000 / ThinkPad Thunderbolt 4 Smart Dock Gen 2 7500 with integrated 1m Thunderbolt 4 cable
- 135 W power adapter and power cord
- Documentation

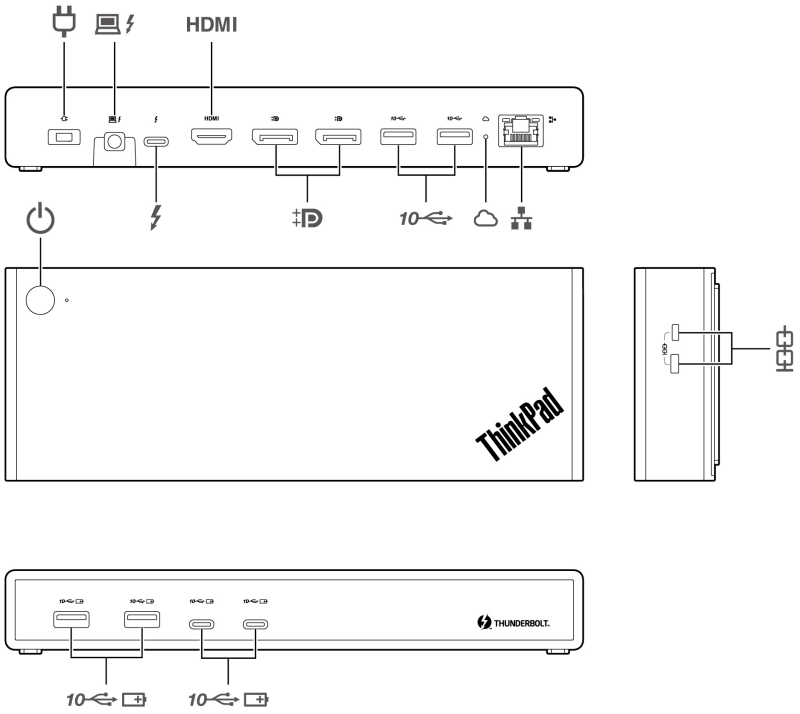
Contact your place of purchase if any item is missing or damaged. Ensure that you retain your proof of purchase and packing material. They might be required to receive warranty service.

Product overview

ThinkPad Thunderbolt 4 Dock Gen 2 7000



ThinkPad Thunderbolt 4 Smart Dock Gen 2 7500



	Power connector Connect to ac power with the accompanying ac power adapter and power cord.

	**Integrated Thunderbolt™ 4 cable (for connecting computer)**
	**USB-C connector (Thunderbolt 4)** Connect a compatible device to • Transfer data. • Charge with the output voltage and current of up to 5 V and 3 A. • Connect an external display with a Thunderbolt cable or USB-C cable. **Note:** Do not connect your computer to this connector.
	**HDMI™ connector** Connect to an external display with a High-Definition Multimedia Interface (HDMI) cable.
	**DisplayPort® connectors** Connect to external displays with DisplayPort cables.
	**USB-A connectors (USB 10Gbps)** Connect a compatible device to transfer data.
	**Cloud indication*** Indicate the cloud connection status. • **Off:** Unprovisioned • **Blinking amber (0.5 seconds on/off):** Provisioning in progress • **Blinking green (0.5 seconds on/off):** Connecting to network • **Blinking green (1 second on/off):** Connecting to Cloud • **Solid green:** Connected
	**Ethernet connector** Connect to a LAN with an Ethernet cable.
	**Power button** Press to turn off or turn on the dock.
	**Security-lock slots** Attach compatible cable locks.
	**USB-A / USB-C connectors (USB 10Gbps, Always On USB)** Connect a compatible device to • Transfer data.

- Charge with the output voltage and current of up to 5 V / 3 A (USB-C) and 5 V / 2.4 A (USB-A).

* for ThinkPad Thunderbolt 4 Smart Dock Gen 2 7500 only

Statement on USB transfer rate

Depending on many factors such as the processing capability of the host and peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and will be slower than the data rate listed below for each corresponding device.

USB device	Data rate (Gbit/s)
Thunderbolt 4	40

Power button indication

When the dock is connected to ac power but not your computer, this indicator shows the dock status:

LED status	Dock status
Amber	On
Off	Off

When the dock is connected to both your computer and ac power, this indicator shows the computer status:

LED status	Computer status
Solid white	On
Blinking white slowly (1 second on/off)	In sleep mode
Off	Off or in hibernation mode

When the dock is updating firmware, this indicator shows the update status:

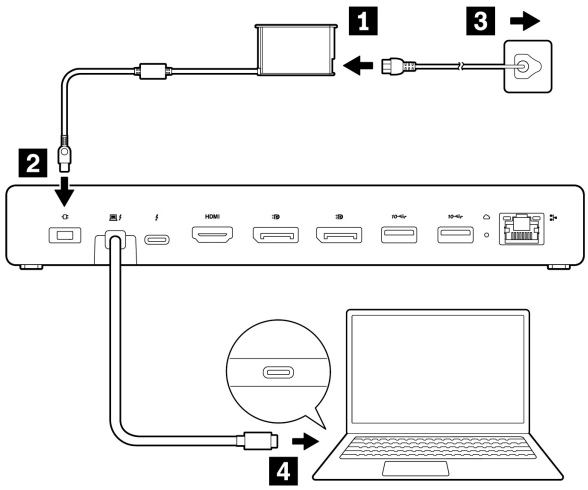
LED status	Firmware update status
Blinking white rapidly (0.5 seconds on/off)	Phase 1 updating

LED status	Firmware update status
Blinking amber rapidly (0.5 seconds on/off)	Phase 2 updating
Solid amber	Phase 2 completed

Chapter 2 Set up the dock

Install the dock

Use the accompanying ac power adapter, power cord, and cable to install the dock. The dock supplies power to the computer when the dock is connected to ac power and your computer.



Note:

The dock is only suitable for mounting at heights of 2 meters or less.

Update the dock driver and firmware

The dock driver and firmware are preinstalled on compatible computers. The dock is ready for use after you connect it to your computer and ac power.

It is recommended that you update the dock driver and firmware whenever a new version is available to improve performance of the dock.

To update the dock driver and firmware:

1. Go to https://www.lenovo.com/support/docks.
2. Select the entry for the dock and then follow the on-screen instructions to download and install the dock driver and firmware.
3. When the indicator on the dock power button turns from a fast blinking amber to solid amber (connected to the computer) or a solid white (disconnected from the computer), the update is completed. The update takes effect when you reconnect the dock to your computer.

Use the Lenovo Accessories Fleet Manager (for ThinkPad Thunderbolt 4 Smart Dock Gen 2 7500 only)

The Lenovo Accessories Fleet Manager (LAFM) is a cloud-based, device management solution that can centrally manage Lenovo accessory devices including docking stations.

To access the Lenovo Accessories Fleet Manager, go to https://download.lenovo.com/consumer/options/lafm_signup.html.

Install Lenovo Dock Manager

The Lenovo Dock Manager is an advanced solution that provides device queries, firmware installation and firmware updates in silent mode.

Silent mode

- Silent installation allows firmware deployment, firmware download, firmware installation to proceed in silent mode, without having to notify end user.
- Silent firmware update means the entire firmware update process is silent, without any interruption to end user such as screen blinking, connected device loss, or dock disconnection.

To download Lenovo Dock Manager, go to https://support.lenovo.com/us/en/solutions/ht037099.

Chapter 3 Use the dock

Use the video output connectors

The dock has four video output connectors to support up to four external displays:

- One Thunderbolt 4 connector (support DisplayPort 1.4 and Thunderbolt 4)
- Two DisplayPort connectors (support DisplayPort 1.4)
- One HDMI connector (supports HDMI 2.1)

Supported resolutions

Depending on the USB-C connector or Thunderbolt connector on your computer, the dock supports the following display resolutions:

- One video output connector: up to 7680 x 4320 pixels / 60 Hz (HDMI 2.1 and DP 1.4)
- Two video output connectors: up to two 3840 x 2160 pixels / 144 Hz (HDMI / DP) or one 3840 x 2160 pixels / 144 Hz (HDMI / DP) and one 3840 x 2160 pixels / 60 Hz (Thunderbolt 4)
- Three video output connectors: up to one 3840 x 2160 pixels / 120 Hz (HDMI / DP) and two 3840 x 2160 pixels / 60 Hz (HDMI / DP / Thunderbolt 4)
- Four video output connectors: up to 3840 x 2160 pixels / 60 Hz

To view the maximum display matrix, go to https://support.lenovo.com/solutions/pd029622 and select the entry for the dock.

Configure the external displays

You can configure the external displays connected to your dock:

- Set the display mode: extend, mirror or duplicate, or single display.
- Set the orientation, brightness, resolution, color, and more.

To configure the external displays:

1. Right-click a blank area on the desktop and select **Display settings**.
2. Select the display that you want to configure.
3. Configure display settings of your preference.

For more information, see the Windows help information.

Use the Ethernet connector

You can use the Ethernet connector on the dock to connect your computer to a standard 10 Mbps, 100 Mbps, 1000 Mbps, or 2500 Mbps network with an Ethernet cable.

The Ethernet connector has two network status indicators. When the green indicator is on, the computer is connected to a LAN. When the yellow indicator blinks, data is being transmitted.

Depending on your computer, some of the following functions are available when the dock is connected to a LAN.

- Preboot eXecution Environment
- MAC address Pass Through
- Wake on LAN

To view the functions supported by your computer, go to https://support.lenovo.com/us/en/solutions/accs-guide. Select **Network function support – Option Compatibility Matrix**. Then follow the on-screen instructions.

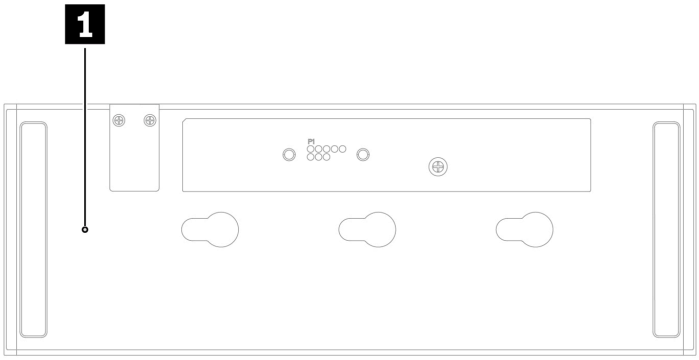
Reset docks to factory configuration (for ThinkPad Thunderbolt 4 Smart Dock Gen 2 7500 only)

IT administrator can reset the docks to factory configuration.

After reset, the following will happen:

- Network settings and Organization ID will be cleaned up so that the docks can be provisioned again.
- Dock's firmware level remains.

To reset the dock: with the dock powered on, insert a pin into the reset hole 1 and hold for 5 seconds. The cloud indication will be solid amber, indicating the dock is ready to be re-provisioned.



Chapter 4 Troubleshooting

General

1. The dock does not work after connected to my computer.

Ensure that:

- You use the accompanying ac power adapter, power cord, and cable.
- The dock is connected to its power adapter, as it requires external power for operation.
- The USB-C connector or Thunderbolt connector on your computer works properly.

2. The function of wireless keyboard or mouse (2.4 GHz) is interrupted. The mouse pointer lags or does not move. Some characters are lost when I input by the keyboard.

Ensure that the data transmission device is far away from the USB dongle.

3. The rear USB connectors can not charge your device when the dock is not connected to a computer.

Connect your device to the front USB connectors for charging.

4. My computer cannot be charged by the dock.

- Ensure that you use the accompanying ac power adapter, power cord, and cable to set up the dock.
- The dock can supply power up to 100 W. If your computer requires power more than 100 W, you need to use its original power adapter to charge it.

5. The IoT function doesn't work (for ThinkPad Thunderbolt 4 Smart Dock Gen 2 7500 only).

- Ensure that you use the accompanying ac power adapter, power cord, and cable to set up the dock.
- Remove the dock from the cloud portal. For detailed instructions, go to https://download.lenovo.com/consumer/options/lafm_signup.html to view the LAFM User Guide and follow the instructions in Reset docks to factory configuration (for ThinkPad Thunderbolt 4 Smart Dock Gen 2 7500 only) on page 9 to reset the dock.

Video output

1. The external display is blank.

Ensure that:

- The external display is connected to ac power and turned on.
- Your computer is running correctly and not in standby or hibernation mode.
- The dock is securely connected to ac power, computer, and external display.

2. The external DisplayPort or HDMI display has no display after I connect a Thunderbolt display to the dock.

a. Disconnect all external displays from the dock.
b. Connect the DisplayPort or HDMI display to the dock.
c. Connect the Thunderbolt display.

3. The images on the external display flutter.

- Ensure that the display cable is securely connected to the dock.
- Disconnect and reconnect the display cable.

Audio output

Sound does not come from the headset after connected to the dock.

Ensure that the dock is set as the default audio device: Right-click the speaker icon in the Windows notification area and select **Sound Settings** and the correct device in **Output**. The Sound window is displayed.

Note:

You might need to restart the application that is using the audio device to apply the changes.

Appendix A Accessibility information

Documentation in accessible formats

Lenovo provides electronic documentation in accessible formats, such as properly tagged PDF files or HyperText Markup Language (HTML) files. Lenovo electronic documentation is developed to ensure that visually impaired users can read the documentation through a screen reader. Each image in the documentation also includes adequate alternative text to explain the image so that visually impaired users can understand the image when they use a screen reader.

To open and view PDF files, your computer must have the Adobe Reader program installed. The Adobe Reader program also is available for download at:
http://www.adobe.com

Appendix B Compliance information

EU ErP (EcoDesign) Directive (2009/125/EC) - external power adapters (Regulation (EU) 2019/1782), Ecodesign for Energy-Related Products Regulations 2010 - UK SI 2010 No. 2617 (Ext PSU), SI 2020 No. 485 (Ntwk Standby), SI 2014 No. 1290 as amended

Lenovo products are compliant with the EU EcoDesign (ErP) Directive and UK EcoDesign for Energy-related Products Regulations. Refer to the following for details. For EU, refer to the system declaration https://www.lenovo.com/us/en/compliance/eu-doc, and for UK refer to the system declaration https://www.lenovo.com/us/en/compliance/uk-doc.

Appendix C Important notice for Quebec consumers

In regard to section 79.18 of Quebec's Regulation respecting the application of the Consumer Protection Act, Lenovo in no way guarantees the availability of (a) replacement parts; (b) repair services; and (c) information necessary to maintain or repair the goods. For up-to-date information on the technical support and parts available for your purchase, please consult **https://support.lenovo.com/ca/en**.

Appendix D Trademarks

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USB-C is a trademark of USB Implementers Forum.

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