

ThinkPad T14s Gen 1 and ThinkPad X13 Gen 1

User Guide

Lenovo
ThinkPad

Lenovo

Read this first

Before using this documentation and the product it supports, ensure that you read and understand the following:

- Appendix A “Important safety information” on page 73
- *Safety and Warranty Guide*
- *Setup Guide*

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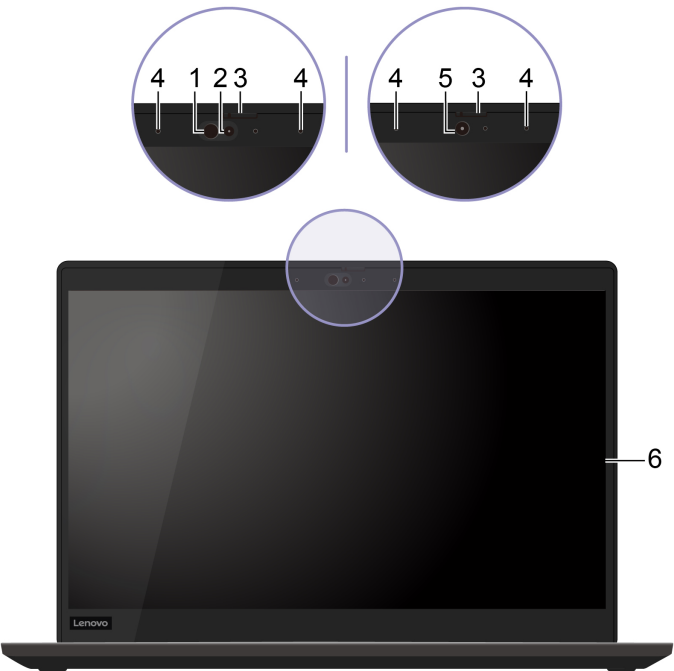
About this documentation

- Illustrations in this documentation might look different from your product.
- Depending on the model, some optional accessories, features, and software programs might not be available on your computer.
- Depending on the version of operating systems and programs, some user interface instructions might not be applicable to your computer.
- Documentation content is subject to change without notice. Lenovo makes constant improvements on the documentation of your computer, including this *User Guide*. To get the latest documentation, go to <https://pcsupport.lenovo.com>.
- Microsoft® makes periodic feature changes to the Windows® operating system through Windows Update. As a result, some information in this documentation might become outdated. Refer to Microsoft resources for the latest information.

Chapter 1. Meet your computer

ThinkPad T14s Gen 1 and ThinkPad X13 Gen 1 might be shipped with different microprocessors, namely Intel® and Advanced Micro Devices (AMD). Hereby Intel models and AMD models are used to distinguish computer models with different microprocessors.

Front



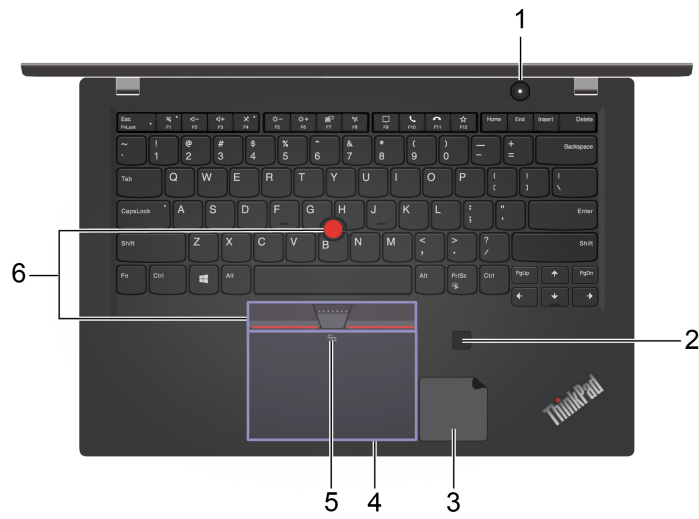
Item	Description
1. Infrared LED*	Emit infrared (IR) light. Note: Do not block the IR light-emitting diode (LED). Otherwise, the IR function might not work.
2. Camera with IR function*	<ul style="list-style-type: none">Log in to your computer with face authentication. See “Use face authentication (for selected models)” on page 45.Take pictures or record videos by clicking Camera from the Start menu. The indicator next to the camera is on when the camera is in use. <p>If you use other apps that support photographing, video chatting, and video conference, the camera starts automatically when you enable the camera-required feature from the app.</p>
3. ThinkShutter*	Slide ThinkShutter to cover or uncover the camera lens. It is designed to protect your privacy.
4. Microphones*	Capture or record sound.

Item	Description
5. Camera*	<p>Take pictures or record videos by clicking Camera from the Start menu. The indicator next to the camera is on when the camera is in use.</p> <p>If you use other apps that support photographing, video chatting, and video conference, the camera starts automatically when you enable the camera-required feature from the app.</p>
6. Multi-touch screen*	Enable you to use your computer with simple touch gestures. See “Use the multi-touch screen (for selected models)” on page 23.

* for selected models


Base

Intel models



AMD models

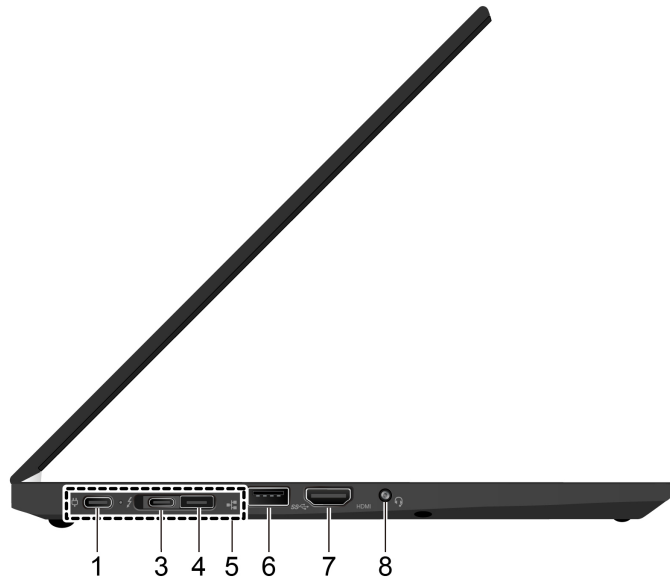


Item	Description
1. Power button	Press to turn on the computer or put the computer to sleep mode.
	To turn off the computer, open the Start menu, click  Power , and then select Shut down .
	The indicator in the power button shows the system status of your computer.
	<ul style="list-style-type: none"> • Blinking for three times: The computer is initially connected to power. • On: The computer is on. • Off: The computer is off or in hibernation mode. • Blinking rapidly: The computer is entering sleep or hibernation mode. • Blinking slowly: The computer is in sleep mode.
2. Fingerprint reader*	Log in to your computer with enrolled fingerprints. See “Use the fingerprint reader (for selected models)” on page 44.
3. NFC label (for selected Intel models)	Your computer supports NFC (near field communication). You can share information with another NFC-enabled device. See “Set up an NFC connection (for selected Intel models)” on page 31.
4. Trackpad	Perform finger touch and all the functions of a traditional mouse. See “Use the trackpad” on page 21.
5. NFC mark (for selected Intel models)	Your computer supports NFC (near field communication). You can share information with another NFC-enabled device. See “Set up an NFC connection (for selected Intel models)” on page 31.
6. TrackPoint® pointing device	Perform all the functions of a traditional mouse. See “Use the TrackPoint pointing device” on page 20.

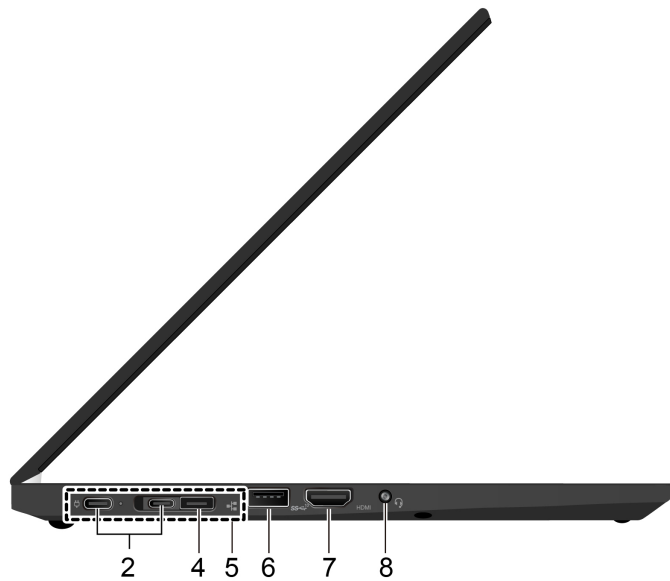
* for selected models

Left

Intel models



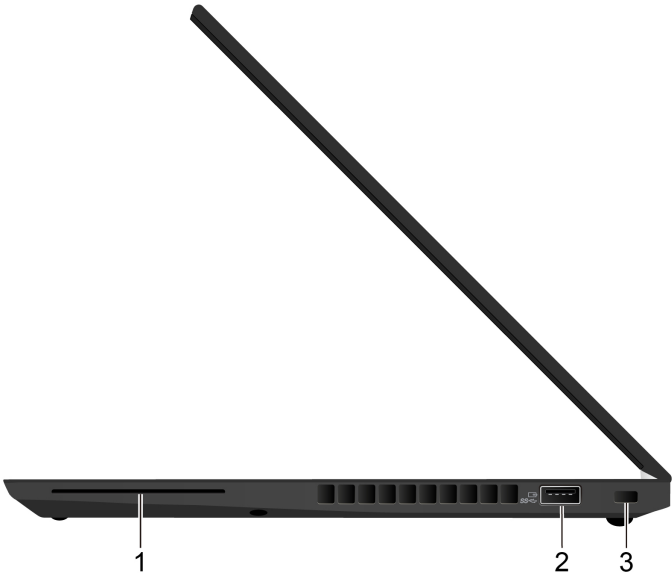
AMD models



Item	Description
1. USB-C™ (3.2 Gen 1) connector (for Intel models)	<ul style="list-style-type: none"> • Charge your computer. • Charge USB-C compatible devices with the output voltage and current of 5 V and 1.5 A. • Transfer data at USB 3.2 speed, up to 5 Gbps. • Connect to an external display: <ul style="list-style-type: none"> – USB-C to VGA: 1920 x 1200 pixels, 60 Hz – USB-C to DP: 4096 x 2304 pixels, 60 Hz • Connect to USB-C accessories to help expand your computer functionality. To purchase USB-C accessories, go to https://www.lenovo.com/accessories. • Supply power to another computer using P-to-P (Peer to Peer) 2.0 charging function. See “Use P-to-P 2.0 charging function” on page 29. <p>Note: When the battery power is below 10%, the connected USB-C accessories might not work correctly.</p>
2. USB-C (3.2 Gen 2) connectors (for AMD models)	<ul style="list-style-type: none"> • Charge your computer. • Charge USB-C compatible devices with the output voltage and current of 5 V and 1.5 A. • Transfer data at USB 3.2 speed, up to 10 Gbps. • Connect to an external display: <ul style="list-style-type: none"> – USB-C to VGA: 1920 x 1200 pixels, 60 Hz – USB-C to DP: 4096 x 2304 pixels, 60 Hz • Connect to USB-C accessories to help expand your computer functionality. To purchase USB-C accessories, go to https://www.lenovo.com/accessories. • Supply power to another computer using P-to-P (Peer to Peer) 2.0 charging function. See “Use P-to-P 2.0 charging function” on page 29. <p>Note: When the battery power is below 10%, the connected USB-C accessories might not work correctly.</p>
3. USB-C (Thunderbolt™ 3) connector (for Intel models)	<ul style="list-style-type: none"> • Charge your computer. • Charge USB-C compatible devices with the output voltage and current of 5 V and 1.5 A. • Transfer data at Thunderbolt 3 speed, up to 20 Gbps. • Connect to an external display: <ul style="list-style-type: none"> – USB-C to VGA: 1920 x 1200 pixels, 60 Hz – USB-C to DP: 4096 x 2304 pixels, 60 Hz • Connect to USB-C accessories to help expand your computer functionality. To purchase USB-C accessories, go to https://www.lenovo.com/accessories. • Supply power to another computer using P-to-P (Peer to Peer) 2.0 charging function. See “Use P-to-P 2.0 charging function” on page 29. <p>Note: When the battery power is below 10%, the connected USB-C accessories might not work correctly.</p>

Item	Description
4. Ethernet extension connector Gen 2	<p>Make your computer thinner than the ones with a standard Ethernet connector. Use a ThinkPad Ethernet Extension Adapter Gen 2 to connect your computer to a local area network (LAN) through this connector. The ThinkPad Ethernet Extension Adapter Gen 2 is available as an option and shipped with some computer models only. You can purchase a ThinkPad Ethernet Extension Adapter Gen 2 from Lenovo at: https://www.lenovo.com/accessories.</p> <p>Note: The Ethernet extension connector Gen 2 and the adjoining USB-C (Thunderbolt 3) connector or USB-C (3.2 Gen 2) connector cannot be used simultaneously.</p>
5. Docking-station connector	<p>Connect the computer to one of the following supported docks to extend the computer capabilities:</p> <ul style="list-style-type: none"> • ThinkPad Basic Docking Station • ThinkPad Pro Docking Station • ThinkPad Ultra Docking Station
6. USB-A 3.2 Gen 1 connector	<p>Connect a USB-compatible device, such as a USB keyboard, USB mouse, USB storage device, or USB printer.</p>
7. HDMI™ connector	<p>For Intel models, the HDMI connector supports the HDMI 1.4 standard. Connect to a compatible digital audio device or video monitor, such as an HDTV.</p> <p>For AMD models, the HDMI connector on your computer supports the HDMI 2.0 standard by default. If you connect an external display to your computer through the HDMI connector with an HDMI 1.4 cable, the external display might not work. In this case, do one of the following:</p> <ul style="list-style-type: none"> • Use a qualified HDMI 2.0 cable. • Change the HDMI standard of the HDMI connector from 2.0 to 1.4. To change the HDMI standard, enter the UEFI BIOS menu (see “Enter the UEFI BIOS menu” on page 47), and then configure HDMI Mode Select in the Config menu.
8. Audio connector	<ul style="list-style-type: none"> • Connect headphones with a 3.5-mm (0.14-inch) and 4-pole plug to listen to the sound from the computer. • Connect a headset with a 3.5-mm (0.14-inch) and 4-pole plug to listen to the sound from the computer or talk with others. <p>Note: This connector does not support standalone external microphones.</p>

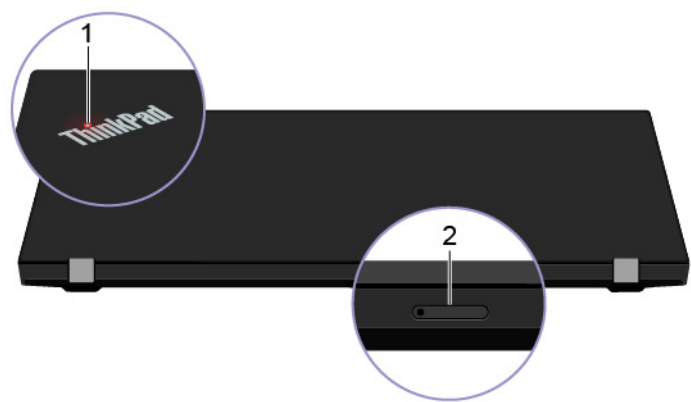
Right



Item	Description
1. Smart-card slot*	Use smart cards for authentication, data storage, and application processing. Within large organizations, you might also use smart cards for strong security authentication of single sign-on (SSO). See “Use a smart card (for selected models)” on page 32.
2. Always On USB-A 3.2 Gen 1 connector	<p>With the Always On USB feature enabled, the Always On USB-A 3.2 Gen 1 connector can charge a USB-compatible device when the computer is on, off, in sleep mode, or in hibernation mode.</p> <p>Notes:</p> <ul style="list-style-type: none">• By default, Always On USB is enabled and Charge in Battery Mode is disabled in UEFI BIOS.• When the computer is off or in hibernation mode, and Charge in Battery Mode is disabled in UEFI BIOS, ensure that you have connected the computer to ac power. <p>To enable the Always On USB feature:</p> <ol style="list-style-type: none">1. Enter the UEFI BIOS menu. See “Enter the UEFI BIOS menu” on page 47.2. Click Config → USB → Always On USB to enable the Always On USB feature.
3. Security-lock slot	Lock your computer to a desk, table, or other fixtures through a compatible security cable lock. See “Lock the computer” on page 41.

* for selected models

Rear

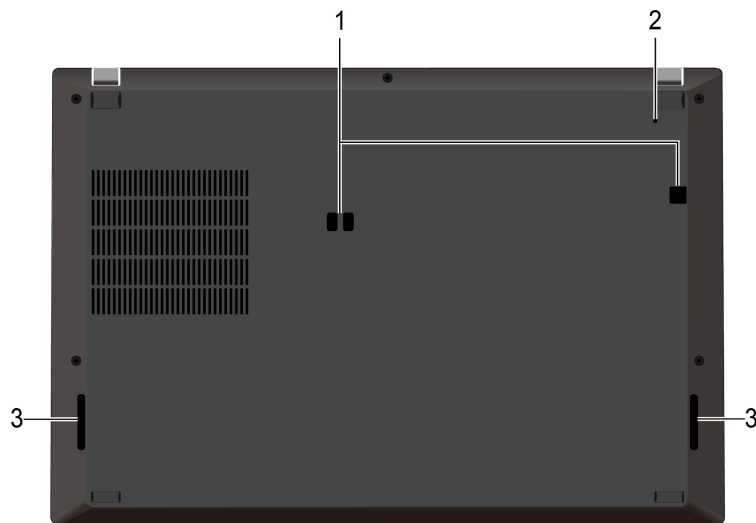


Item	Description
1. System status indicator	<p>The indicator in the ThinkPad logo on the computer lid shows the system status of your computer.</p> <ul style="list-style-type: none">• Blinking for three times: The computer is initially connected to power.• On: The computer is on.• Off: The computer is off or in hibernation mode.• Blinking rapidly: The computer is entering sleep or hibernation mode.• Blinking slowly: The computer is in sleep mode.
2. Nano-SIM-card and microSD-card slot*	<p>Use the Nano Subscriber Identity Module (SIM) card to connect to a wireless-WAN network. See “Connect to a cellular network (for selected models)” on page 15. Use the microSD card to transfer or store files. See “Use a microSD card (for selected models)” on page 32.</p>

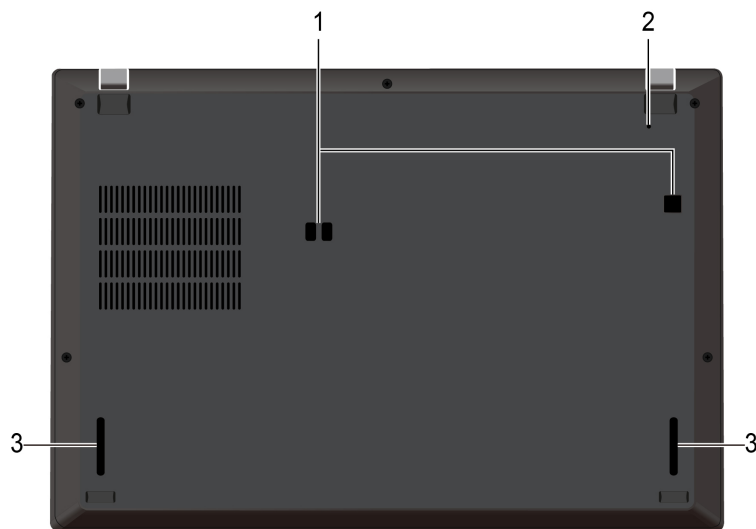
* for selected models

Bottom

ThinkPad T14s Gen 1



ThinkPad X13 Gen 1



Item	Description
1. Docking-station hook holes	Use the docking-station hook holes to secure a supported docking station.
2. Emergency-reset hole	<p>If the computer stops responding and you cannot turn it off by pressing the power button, reset your computer:</p> <ol style="list-style-type: none">1. Disconnect your computer from ac power.2. Insert a straightened paper clip into the hole to cut off power supply temporarily.3. Connect your computer to ac power and then turn on your computer.
3. Speakers	Enable you to experience high-quality sound.

Features and specifications

Dimensions	ThinkPad T14s Gen 1 <ul style="list-style-type: none">• Width: 328.8 mm to 329.15 mm (12.94 inches to 12.95 inches)• Depth: 225.8 mm to 226.45 mm (8.89 inches to 8.91 inches)• Thickness: 16.1 mm to 17.2 mm (0.63 inches to 0.68 inches)
	ThinkPad X13 Gen 1 <ul style="list-style-type: none">• Width: 312 mm (12.28 inches)• Depth: 217.2 mm (8.55 inches)• Thickness: 16.5 mm to 16.9 mm (0.65 inches to 0.67 inches)
Maximum heat output (depending on the model)	<ul style="list-style-type: none">• 45 W (154 Btu/hr)• 65 W (222 Btu/hr)
Power source (ac power adapter)	<ul style="list-style-type: none">• Sine-wave input at 50 Hz to 60 Hz• Input rating of the ac power adapter: 100 V to 240 V ac, 50 Hz to 60 Hz
Microprocessor	To view the microprocessor information of your computer, right-click the Start button and then click System .
Memory	Double data rate 4 (DDR4) onboard memory module Note: Depending on the system configuration, memory speeds might vary.
Storage device	<ul style="list-style-type: none">• M.2 solid-state drive*• Hybrid solid-state drive (with Intel® Optane™ memory) (for selected Intel models)
Display	<ul style="list-style-type: none">• Brightness control• Color display with Thin Film Transistor (TFT) technology• Color display with In-Plane Switching (IPS) technology (for ThinkPad T14s Gen 1)• Color display with In-Plane Switching (IPS) technology or Twisted Nematic (TN) technology (for ThinkPad X13 Gen 1)• Display size:<ul style="list-style-type: none">– ThinkPad T14s Gen 1: 355.6 mm (14 inches)– ThinkPad X13 Gen 1: 337.82 mm (13.3 inches)• Display resolution:<ul style="list-style-type: none">– ThinkPad T14s Gen 1 (for Intel models): 1920 x 1080 pixels or 3840 x 2160 pixels– ThinkPad T14s Gen 1 (for AMD models): 1920 x 1080 pixels– ThinkPad X13 Gen 1: 1366 x 768 pixels or 1920 x 1080 pixels• Multi-touch technology*• PrivacyGuard feature*
Keyboard	<ul style="list-style-type: none">• Function keys• Six-row keyboard or six-row keyboard with backlight• Trackpad• TrackPoint pointing device

Connectors and slots	<ul style="list-style-type: none"> • Audio connector • Ethernet extension connector Gen 2 • HDMI connector • Nano-SIM-card and microSD-card slot* • One Always on USB-A 3.2 Gen 1 connector • One USB-A 3.2 Gen 1 connector • One USB-C (3.2 Gen 1) connector (for Intel models) • One USB-C (Thunderbolt 3) connector (for Intel models) • Smart-card slot* • Two USB-C (3.2 Gen 2) connectors (for AMD models)
Security features	<ul style="list-style-type: none"> • Face authentication* • Fingerprint reader* • Password • ThinkShutter* • Security-lock slot • Trusted Platform Module (TPM)*
Wireless features	<ul style="list-style-type: none"> • Bluetooth • Global Positioning System (GPS) satellite receiver (available on models with wireless WAN)* • Near field communication (NFC)* • Wireless LAN • Wireless WAN*
Others	<ul style="list-style-type: none"> • Camera* • Microphones*

* for selected models

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)
3.2 Gen 1	5
3.2 Gen 2	10
3.2 Gen 2 × 2	20
Thunderbolt 3	40
Thunderbolt 4	40

Chapter 2. Get started with your computer

Connect to networks

Your computer helps you connect to the world through a wired or wireless network.

Connect to the wired Ethernet

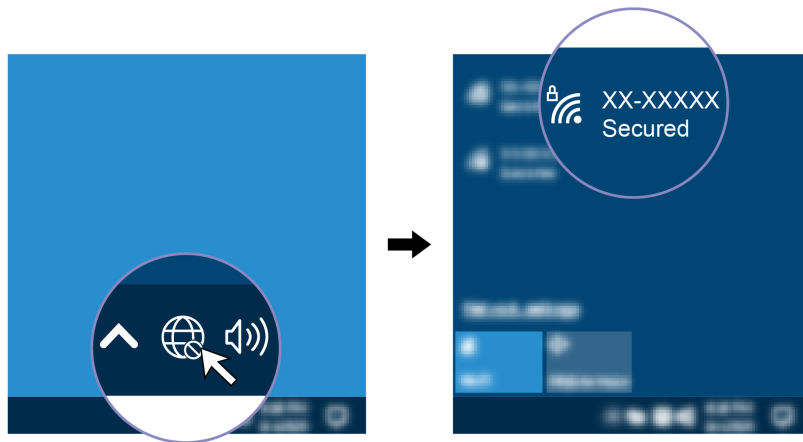
Connect your computer to a local network through the Ethernet extension connector Gen 2 on your computer with a ThinkPad Ethernet Extension Adapter Gen 2.

The Ethernet extension adapter is available as an option and shipped with some computer models. You can purchase one from Lenovo at <https://www.lenovo.com/accessories>.

Note: The Ethernet extension connector Gen 2 and the adjoining USB-C (Thunderbolt 3) connector or USB-C (3.2 Gen 2) connector cannot be used simultaneously.

Connect to Wi-Fi networks

Click the network icon in the Windows® notification area, and then select a network for connection. Provide required information, if needed.



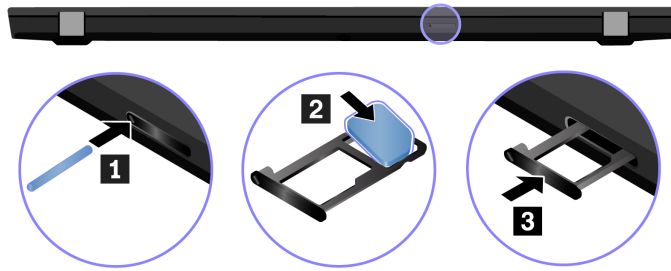
Connect to a cellular network (for selected models)


If your computer has a wireless wide area network (WAN) card and a nano-SIM card installed, you can connect to a cellular data network and get online using the cellular signal.

Note: The cellular service is provided by authorized mobile service carriers in some countries or regions. You must have a cellular plan from a service carrier to connect to the cellular network.

To establish a cellular connection:

1. Turn off the computer.
2. Insert a straightened paper clip into the hole in the tray **1**. The tray ejects. Install a nano-SIM card into the tray with the metal contacts facing downward **2**. Insert the tray into the nano-SIM-card and microSD-card slot until you hear a click **3**. If your computer has a nano-SIM card installed, skip this step.



3. Turn on the computer.
4. Click the network icon in the Windows notification area, and then select the cellular network icon  from the list.
5. Provide required information, if needed.

Lenovo Commercial Vantage

The Lenovo Commercial Vantage app (hereafter referred to as Vantage app) is a customized one-stop solution to help you maintain your computer with automated updates and fixes, configure hardware settings, and get personalized support.

To access the Vantage app, type **Lenovo Commercial Vantage** in the Windows search box.

Notes:

- The available features vary depending on the computer model.
- The Vantage app makes periodic updates of the features to keep improving your experience with your computer. The description of features might be different from that on your actual user interface. Ensure that you use the latest version of Vantage app, and apply Windows Update to get the latest updates.

The Vantage app enables you to:

- Know the device status easily and customize device settings.
- Download and install UEFI BIOS, firmware, and driver updates to keep your computer up-to-date.
- Monitor your computer health, and secure your computer against outside threats.
- Scan your computer hardware and diagnose hardware problems.
- Look up warranty status (online).
- Access *User Guide* and helpful articles.

Use Lenovo Quick Clean



Depending on the model, your computer might support the Lenovo Quick Clean feature. The preinstalled Lenovo Quick Clean enables you to temporarily disable the keyboard, screen, trackpad, and TrackPoint pointing device for cleaning.

Access Lenovo Quick Clean

To access Lenovo Quick Clean, do one of the following:

- Type Lenovo Quick Clean in the Windows search box.
- Press Fn and the right Shift key at the same time.

To download the latest version of Lenovo Quick Clean, go to <https://pcsupport.lenovo.com>.

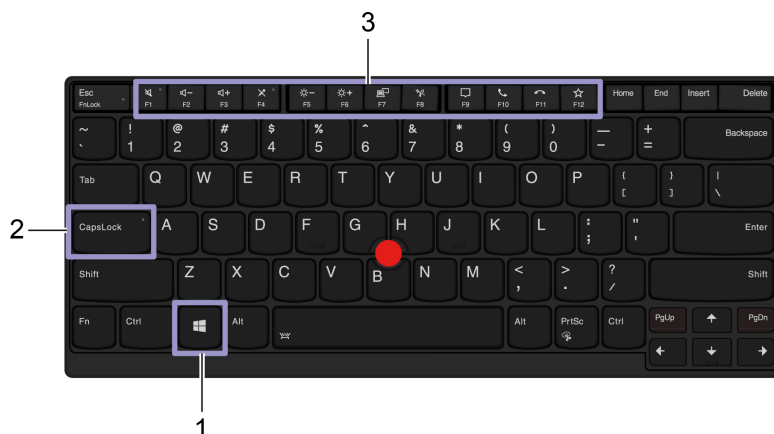
Interact with your computer

Your computer provides you various ways to navigate the screen.

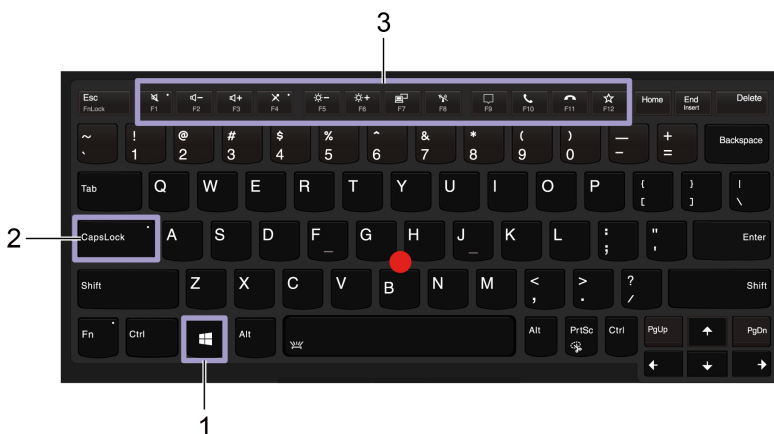
Use the keyboard shortcuts

The special keys on the keyboard help you work more easily and effectively.

ThinkPad T14s Gen 1



ThinkPad X13 Gen 1



Open the **Start** menu.

1. Windows logo key

For information about using this key with other keys, see the Windows help information.

2. Caps Lock key

Switch the letter case between the upper case and lower case.















When the key indicator is on, you can type uppercase letters.

3. F1–F12 function keys

Invoke the special function printed as an icon on each key or standard function.

To choose whether to invoke the special function or standard function:

1. Go to **Control Panel** and view by Large icons or Small icons.
 2. Click **Keyboard** or **Lenovo - Keyboard Manager** and select the option of your preference.
-

	<p>Switch the function of the F1–F12 keys between the standard function and special function printed as an icon on each key.</p> <p>When the Fn Lock indicator is on:</p> <ul style="list-style-type: none"> • Press F1-F12 to use the standard function. • Press Fn+F1-F12 to use the special function. <p>When the Fn Lock indicator is off:</p> <ul style="list-style-type: none"> • Press Fn+F1-F12 to use the standard function. • Press F1-F12 to use the special function.
	<p>Mute or unmute the speakers.</p> <p>When the key indicator is on, the speakers are muted.</p> <p>If you mute the speakers and turn off your computer, the speakers remain muted when you turn on your computer.</p>
	<p>Volume down.</p>
	<p>Volume up.</p>
	<p>Mute or unmute the microphones.</p> <p>When the key indicator is on, the microphones are muted.</p>
	<p>Brightness down.</p>
	<p>Brightness up.</p>
	<p>Manage external displays.</p>
	<p>Wireless on / off.</p>
	<p>Open the notification center.</p>
	<p>Answer incoming calls on Microsoft Teams.</p>
	<p>Decline incoming calls on Microsoft Teams.</p>
	<p>Invoke the function defined by yourself.</p> <p>You can define different functions for the F12 key on the Vantage app.</p>
	<p>Open the Snipping Tool program.</p>
<p>Fn+Spacebar</p>	<p>Switch between different keyboard backlight statuses if your computer supports keyboard backlight.</p>
<p>Fn+B</p>	<p>Equal the Break key on a conventional external keyboard.</p>
<p>Fn+K</p>	<p>Equal the ScrLK or Scroll Lock key on a conventional external keyboard.</p>
<p>Fn+P</p>	<p>Equal the Pause key on a conventional external keyboard.</p>
<p>Fn+S</p>	<p>Equal the SysRq key on a conventional external keyboard.</p>

Fn+4	Put the computer to sleep mode. To wake up the computer, press Fn or the power button.
Fn+D	If your computer supports the PrivacyGuard feature, press Fn+D to enable or disable this feature. For more information, see “Use privacy protection (for selected models)” on page 25.
Fn+Left arrow key	Equal the Home key.
Fn+Right arrow key	Equal the End key.

Use the TrackPoint pointing device

The TrackPoint pointing device enables you to perform all the functions of a traditional mouse, such as pointing, clicking, and scrolling.

Use the TrackPoint pointing device



1. Pointing stick

Use your index finger or middle finger to apply pressure to the pointing-stick nonslip cap in any direction parallel to the keyboard. The pointer on the screen moves accordingly but the pointing stick itself does not move. The higher the pressure applied, the faster the pointer moves.

2. Left-click button

Press to select or open an item.

3. Right-click button

Press to display a shortcut menu.

4. Middle button

Press and hold the dotted middle button while applying pressure to the pointing stick in the vertical or horizontal direction. Then, you can scroll through the document, Web site, or apps.

Press Ctrl + dotted middle button + TrackPoint pointing stick at the same time to zoom in or zoom out.

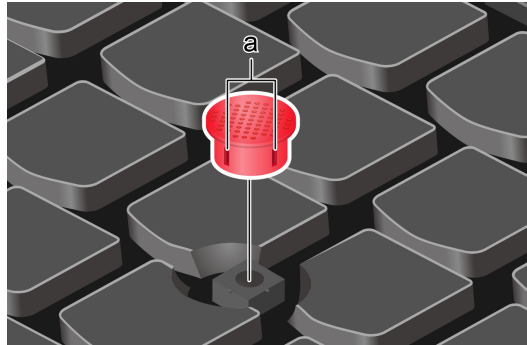
Disable the TrackPoint pointing device

The TrackPoint pointing device is active by default. To disable the device:

1. Open the **Start** menu, and then click **Settings → Devices → Mouse**.
2. Follow the on-screen instructions to disable TrackPoint.

Replace the pointing-stick nonslip cap

Note: Ensure that the new cap has grooves **a**.



Use the trackpad

The entire trackpad surface is sensitive to finger touch and movement. You can use the trackpad to perform all the pointing, clicking, and scrolling functions of a traditional mouse.

Use the trackpad



1. Left-click zone

Press to select or open an item.

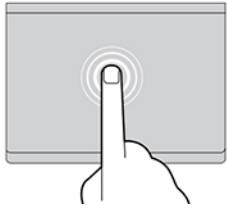
You also can tap anywhere on the surface of the trackpad with one finger to perform the left-click action.

2. Right-click zone

Press to display a shortcut menu.

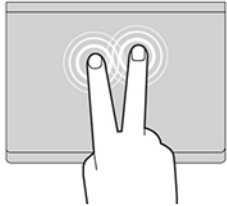
You also can tap anywhere on the surface of the trackpad with two fingers to perform the right-click action.

Use the touch gestures



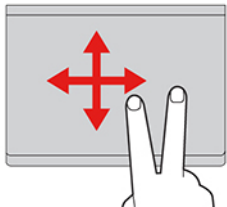
Tap

Tap anywhere on the trackpad with one finger to select or open an item.



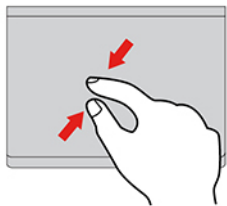
Two-finger tap

Tap anywhere on the trackpad with two fingers to display a shortcut menu.



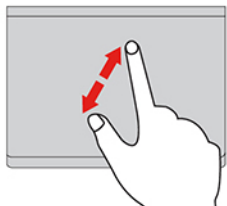
Two-finger scroll

Put two fingers on the trackpad and move them in the vertical or horizontal direction. This action enables you to scroll through the document, Web site, or apps.



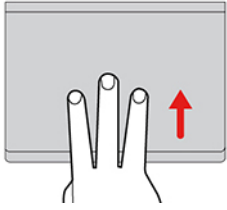
Two-finger zoom out

Put two fingers on the trackpad and move them closer together to zoom out.



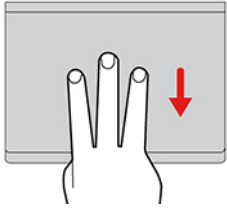
Two-finger zoom in

Put two fingers on the trackpad and move them farther apart to zoom in.



Swipe three fingers up

Put three fingers on the trackpad and move them up to open the task view to see all your open windows.



Swipe three fingers down

Put three fingers on the trackpad and move them down to show the desktop.

Notes:

- When using two or more fingers, ensure that you position your fingers slightly apart.
- Some gestures are not available if the last action was done from the TrackPoint pointing device.
- Some gestures are only available when you are using certain apps.
- If the trackpad surface is stained with oil, turn off the computer first. Then, gently wipe the trackpad surface with a soft and lint-free cloth moistened with lukewarm water or computer cleaner.

For more gestures, see the help information of the pointing device.

Disable the trackpad

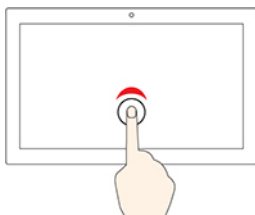
The trackpad is active by default. To disable the device:

1. Open the **Start** menu, and then click **Settings → Devices → Touchpad**.
2. In the Touchpad section, turn off the **Touchpad** control.

Use the multi-touch screen (for selected models)

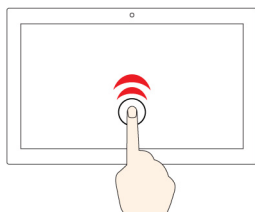
If your computer display supports the multi-touch function, you can navigate the screen with simple touch gestures.

Note: Some gestures might not be available depending on the app you use.



Tap once

- From the **Start** menu: Open an app or item.
- From the desktop: Select an app or item.
- In an open app: Perform an action such as **Copy**, **Save**, and **Delete**, depending on the app.



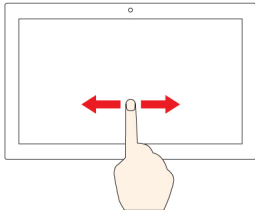
Tap twice quickly

Open an app or item from the desktop.



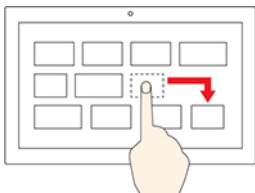
Tap and hold

Open a shortcut menu.



Slide

Scroll through items, such as lists, pages, and photos.



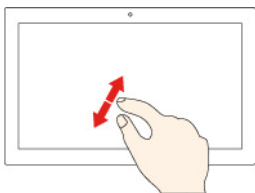
Drag an item to the location you want

Move an object.



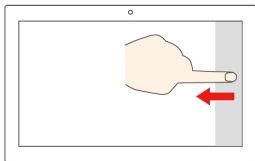
Move two fingers closer together

Zoom out.



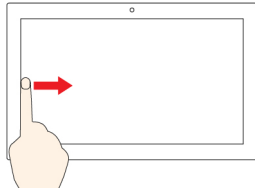
Move two fingers farther apart

Zoom in.



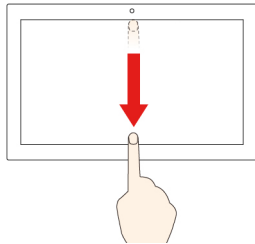
Swipe in from the right edge

Open the action center to see your notifications and quick actions.



Swipe in from the left edge

View all your open windows in task view.



- **Swipe downwards shortly from the top edge (for full-screened app or when your computer is in the tablet mode)**

Show a hidden title bar.

- **Swipe in from the top edge to the bottom edge (when your computer is in the tablet mode)**



Close the current app.

Tips



- Turn off the computer before cleaning the multi-touch screen.
- Use a dry, soft, and lint-free cloth or a piece of absorbent cotton to remove fingerprints or dust from the multi-touch screen. Do not apply solvents to the cloth.
- The multi-touch screen is a glass panel covered with a plastic film. Do not apply pressure or place any metallic object on the screen, which might damage the touch panel or cause it to malfunction.
- Do not use fingernails, gloved fingers, or inanimate objects for input on the screen.
- Regularly calibrate the accuracy of the finger input to avoid a discrepancy.

Use privacy protection (for selected models)

Use the PrivacyGuard feature

Depending on model, your computer might support the PrivacyGuard feature. When the feature is enabled, it darkens screen and reduces visibility from side angles to protect screen content against visual hacking. By default, the PrivacyGuard feature is disabled. You can press F12 or Fn+D to enable it. You will be prompted by the on-screen icon  or  every time the feature is enabled or disabled.

The privacy level of this feature varies depending on the screen brightness level, the contrast ratio, and the physical environment where you are using this feature.

- Press  to increase the privacy level.
- Press  to decrease the privacy level.

Automatic PrivacyGuard feature for passwords

Though the PrivacyGuard feature is disabled, PrivacyGuard feature could also be automatically enabled in case that you are required to input passwords. By default, this automatic PrivacyGuard feature for passwords is disabled. You can enable it on the Vantage app.

Note: The automatic PrivacyGuard feature for passwords is not supported on computers with the Linux® operating system.

Use the PrivacyGuard with PrivacyAlert feature




Glance by Mirametrix® is preinstalled on your computer. Turn on **PrivacyAlert** and **PrivacyGuard** switches on Glance to achieve better privacy protection.

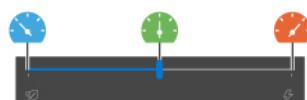
When someone is detected looking over your shoulder by the camera (with IR function), an alert icon appears on your computer screen. Meanwhile, PrivacyAlert automatically enables PrivacyGuard to prevent peeking eyes. When the person leaves, the icon disappears and the PrivacyGuard feature is disabled automatically.



Use the Intelligent Cooling feature (for selected models)

The Intelligent Cooling feature enables your computer to work in the following three modes:

- Quiet mode : the quietest fan noise
- Balanced mode : balanced performance and fan noise
- Performance mode : the highest performance and normal fan noise



on ac power



on battery power

For computers with Windows operating system, do the following to select the preferred mode:

1. Click the battery status icon in the Windows notification area.
2. Move the slider to the left or right to select your preferred mode.

Use multimedia

Use your computer for business or entertainment with the built-in components (camera, speakers, and audio features) or connected external devices (an external projector, monitor, and HDTV).

Use audio

To enhance your audio experience, connect speakers, headphones, or a headset with a 3.5-mm (0.14-inch), 4-pole plug to the audio connector.

Change the sound settings

1. Go to **Control Panel** and view by category.
2. Click **Hardware and Sound** → **Sound**.
3. Change the settings as you prefer.

Connect to an external display

Connect your computer to a projector or a monitor to give presentations or expand your workspace.

Connect to a wired display

1. Connect the external display to an appropriate video connector on your computer.
2. Connect the external display to an electrical outlet.
3. Turn on the external display.

If your computer cannot detect the external display, right-click a blank area on the desktop and select display settings. Then follow the on-screen instructions to detect the external display.

For Intel models, do not connect external displays to the USB-C connector **1** and the HDMI connector **2** at same time. Otherwise, only the external display connected to the USB-C connector **1** will work by default. You can change the priority between the USB-C connector and the HDMI connector from the UEFI BIOS menu. To enter the UEFI BIOS menu, see “Enter the UEFI BIOS menu” on page 47, and then select **Display** → **Shared Display Priority**. Then, follow the instructions on the screen.



Supported resolution

The following table lists the supported maximum resolution of the external display.

Table 1. Intel models



Connect the external display to	Supported resolution
the USB-C (3.2 Gen 1) connector	Up to 4096 x 2304 pixels / 60 Hz
the USB-C (Thunderbolt 3) connector	Up to 4096 x 2304 pixels / 60 Hz
the HDMI connector	Up to 4096 x 2160 pixels / 24 Hz

Table 2. AMD models




Connect the external display to	Supported resolution
the USB-C (3.2 Gen 2) connector	Up to 5120 x 2880 pixels / 60 Hz
the HDMI connector	Up to 4096 x 2160 pixels / 60 Hz




Connect to a wireless display

To use a wireless display, ensure that both your computer and the external display support the Miracast® feature.

Press  +  and then select a wireless display to connect with.

Set the display mode

Press  or  +  and then select a display mode of your preference.

Press  or  +  and then select a display mode of your preference.

Change display settings

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

You can change the settings for both the computer display and the external display. For example, you can define which one is the main display and which one is the secondary display. You also can change the resolution and orientation.

Chapter 3. Explore your computer

Manage power

Use the information in this section to achieve the best balance between performance and power efficiency.

Check the battery status

Go to **Settings** → **System** to check the battery status. For more details about your battery, refer to the Vantage app.

Charge the computer

Use ac power

When the battery power is low, charge your battery by connecting your computer to ac power.

The battery is fully charged in about four to eight hours. If the power adapter shipped with your computer supports the rapid charge function, the battery is 80% charged in about one hour when the computer is turned off. The actual charging time depends on the battery size, the physical environment, and whether you are using the computer.

Battery charging is also affected by the battery temperature. The recommended battery temperature range for charging the battery is between 10°C (50°F) and 35°C (95°F).

Notes:

- Some models may not ship with ac adapters or power cords. Use only the certified adapters and power cords provided by Lenovo that comply with the requirements of relevant national standards to charge the product. It is recommended to use the Lenovo qualified adapters. You can refer to <https://www.lenovo.com/us/en/compliance/eu-doc>
- To maximize the life of the battery, once the battery is fully charged, it must discharge to below 95% before it will be allowed to recharge again.
- To extend your battery's lifespan, we may optimize its full charge capacity based on your usage. After prolonged periods of limited use, full battery capacity may not be available until you discharge to as low as 20% and recharge completely. For more information, refer to the power section of the Vantage app.

Use P-to-P 2.0 charging function

- For Intel models, both the USB-C (3.2 Gen 1) connector and USB-C (Thunderbolt 3) connector feature the Lenovo-unique P-to-P 2.0 charging function.
- For AMD models, both the USB-C (3.2 Gen 2) connectors feature the Lenovo-unique P-to-P 2.0 charging function.

When no ac power is available, this feature enables one computer to supply power to another computer through a USB-C to USB-C cable. When ac power is available for only one computer, this feature enables both computers to get charged by ac power.

Before using the function, ensure that:

- The selected connectors support the P-to-P 2.0 charging function and power delivery function.

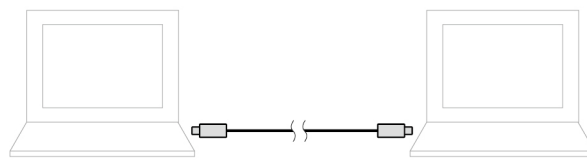
- **Always On USB** and **Charge in Battery Mode** are enabled in UEFI BIOS of both computers, so that the function works even when the computers are off or in hibernation mode. To enable **Always On USB** and **Charge in Battery Mode**:

1. Enter the UEFI BIOS menu. See “Enter the UEFI BIOS menu” on page 47.
2. Click **Config → USB** to enable **Always On USB** and **Charge in Battery Mode**.

To use the function:

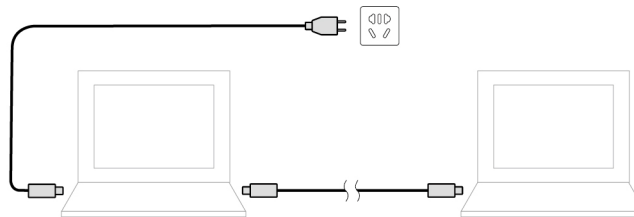
- **When no ac power is available:**

The remaining battery power of computer A should be at least 30% and be 3% higher than that of computer B. To check the battery status, see “Check the battery status” on page 29. Connect the computers to each other with a USB-C to USB-C cable. In this situation, computer A works as the power supply. Once the remaining battery power of computer A is lower than 30%, computer A stops supplying power to computer B.



- **When ac power is available:**

Connect the computers to each other with a USB-C to USB-C cable. Connect one computer to ac power. In this situation, ac power works as the power supply and both computers get charged.



Note: The actual charging speed using the Lenovo-unique P-to-P 2.0 charging function varies depending on many factors, such as the remaining battery power of the computers, the wattage of the ac power adapter, and whether you are using the computers.

Maximize the battery life

- Lower the brightness of the computer display.
- Turn off the wireless features when not in use.
- Use the battery until the charge is depleted.
- Recharge the battery completely before using it.

Set power button behaviors

You can define what the power button does according to your preference. For example, by pressing the power button, you can turn off the computer or put the computer to sleep or hibernation mode.

To change what the power button does:

1. Right-click the battery status icon and select **Power Options → Change what the power buttons do**.
2. Change the settings as you prefer.

Set the power plan

For ENERGY STAR® compliant computers, the following power plan takes effect when your computers have been idle for a specified duration:

- Turn off the display: After 10 minutes
- Put the computer to sleep: After 10 minutes

To reset the power plan to achieve the best balance between performance and power saving:

1. Right-click the battery status icon and select **Power Options**.
2. Choose or customize a power plan of your preference.

Transfer data

Quickly share your files using the built-in Bluetooth or NFC technology among devices with the same features. You also can insert a microSD card or smart card to transfer data.

Set up a Bluetooth connection

You can connect all types of Bluetooth-enabled devices to your computer, such as a keyboard, a mouse, a smartphone, or speakers. To ensure successful connection, place the devices at most 10 meters (33 feet) from the computer.

1. Type Bluetooth in the Windows search box and then press Enter.
2. Turn on Bluetooth, if it is off.
3. Select a Bluetooth device, and then follow the on-screen instructions.

Set up an NFC connection (for selected Intel models)

If your computer supports NFC, you will see an NFC mark or label  around the trackpad area.

NFC is a high-frequency and short-range wireless communication technology. By using NFC, you can simply tap and connect your computer and another NFC-enabled device over a few centimeters or inches.

Turn on NFC

1. Type Airplane mode in the Windows search box and then press Enter.
2. Ensure that the Airplane mode is off and turn on the NFC function.

Pair with an NFC card or NFC-enabled smartphone

Before you start, ensure that:

- The card is in NFC Data Exchange Format (NDEF), otherwise the card cannot be detected.
- The smartphone screen is facing upward.

To pair with an NFC card or smartphone:

1. Place the card or smartphone closely near the NFC mark or label area on your computer.
2. Slowly move the card or smartphone around the NFC mark or label until you are prompted that the device has been successfully detected.

Attention: During the data transfer, do not put your computer to sleep mode or lock the smartphone; otherwise, your data might get damaged.

Use a microSD card (for selected models)

If your computer has a nano-SIM-card and microSD-card slot, read the following information.

Supported microSD card

- Secure Digital (SD) card
- Secure Digital eXtended-Capacity (SDXC) UHS-1 card
- Secure Digital High-Capacity (SDHC) UHS-1 card

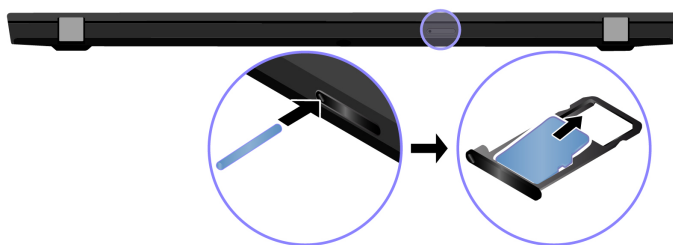
Attention:

- Before handling the microSD card, touch a metal table or a grounded metal object. Otherwise the card might get damaged by the static electricity from your body.
- During the data transfer, do not put your computer into sleep mode; otherwise, your data could get damaged.

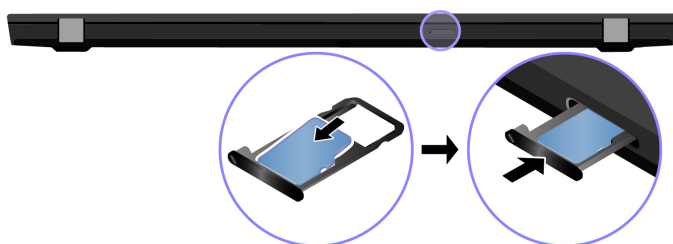
Replace or install a microSD card:

Note: Depending on the model, your tray might not support nano-SIM card, and it might look slightly different from the illustrations in this topic.

1. Insert a straightened paper clip into the hole in the tray. The tray ejects. Then, slide the tray out of the computer. If a microSD card is installed, gently take the microSD card out of the tray.



2. Ensure that the new microSD card is installed in correct orientation. Install a new microSD card into the tray with the metal contacts facing downward. Insert the tray into the nano-SIM-card and microSD-card slot until you hear a click.



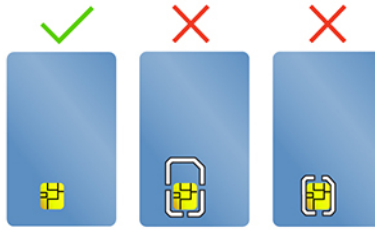
Use a smart card (for selected models)

If your computer has a smart-card slot, read the following information.

Supported smart card

Supported smart card specifications: 85.60 mm (3.37 inches) x 53.98 mm (2.13 inches)

Attention: Smart cards with slits are not supported. Do not insert such a smart card into the smart-card reader of your computer. Otherwise, the reader might get damaged.



Install the card

1. Locate the card slot.
2. Insert the card firmly into the card slot until it is secured in place. Ensure that the metal contacts are facing upward and pointing toward the card slot.

Remove the card

Attention: Before removing a card, eject the card from the Windows operating system first. Otherwise, data on the card might get corrupted or lost.

1. Click the triangular icon in the Windows notification area to show hidden icons. Right-click the icon prompting you to safely remove hardware and eject media.
2. Select the corresponding item to eject the card from the Windows operating system.
3. Press the card and remove it from your computer. Store the card safely for future use.

Turn on the Airplane mode


When the Airplane mode is enabled, all wireless features are disabled.

1. Type Airplane mode in the Windows search box and then press Enter.
2. Turn on the Airplane mode.

Use the factory color calibration feature (for selected models)

The factory color calibration feature is available on computer models shipped with a pre-calibrated display. The feature enables you to render color images or graphics on your display close to the original intent as much as possible.

For computer models with the factory color calibration feature, the color profiles are preinstalled. You can switch between color profiles as desired:

1. Click the triangular icon in the Windows notification area to show hidden icons. Then, right-click .
2. Follow the on-screen instructions to select a profile as desired.

Lenovo provides backup color profiles in Lenovo Cloud. You might need to restore or install color profiles in the following situations:

- If any color profile is lost or damaged, a window will be displayed to remind you to restore the color profiles. Click **Yes** in the window prompted, and the color profiles will be restored from Lenovo Cloud automatically.
- If your display has been replaced by a Lenovo-authorized service provider, do the following to install new color profiles:
 1. Connect your computer to the network and close the X-Rite Color Assistant program.
 2. Go to `C:\Program files (x86)\X-Rite Color Assistant` and locate the `ProfileUpdaterForDisplayReplacement.exe` file.

3. Double-click the EXE file. Then, follow the on-screen instructions to input the display serial number and click **Submit**.

Note: When the new color profiles are installed successfully, a window will be displayed.

Chapter 4. Accessories

This chapter provides instructions on how to use hardware accessories to expand your computer capabilities.

Purchase options

Lenovo has a number of hardware accessories and upgrades to help expand the capabilities of your computer. Options include memory modules, storage devices, network cards, port replicators or docking stations, batteries, power adapters, keyboards, mice, and more.

To shop at Lenovo, go to <https://www.lenovo.com/accessories>.

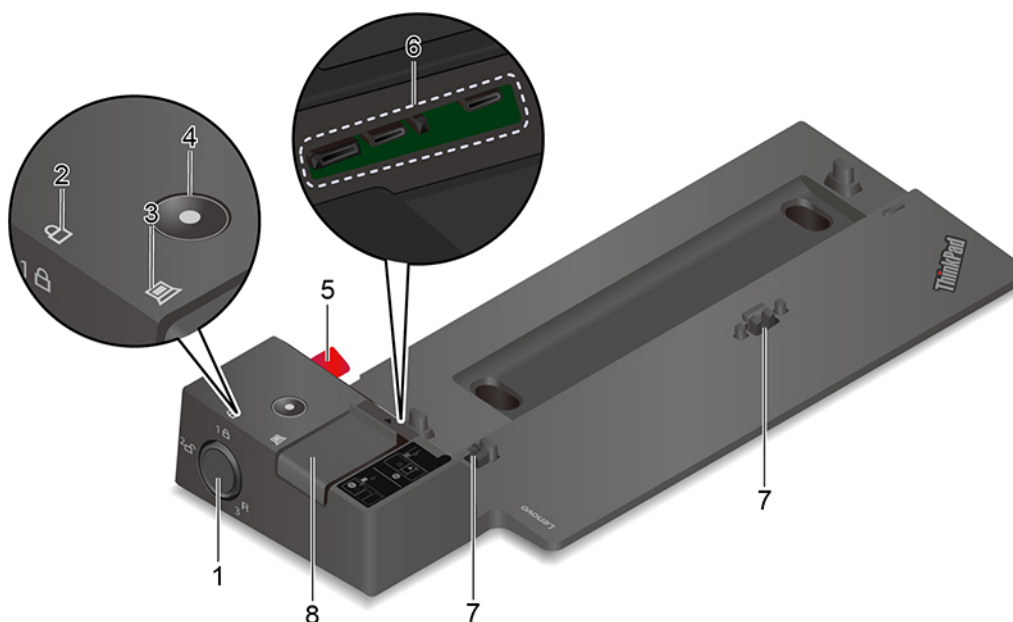
Docking station

You can use the following docking stations to extend the capacity of your computer:

- ThinkPad Basic Docking Station
- ThinkPad Pro Docking Station
- ThinkPad Ultra Docking Station

Front view

Note: The following illustration is based on ThinkPad Basic Docking Station. The ThinkPad Pro Docking Station and ThinkPad Ultra Docking Station might look slightly different.



Use the system lock in the following ways:

1. System lock

- Locked position **1A**: The latch is locked, and you cannot attach or detach your computer.
- Unlocked position **2**: The latch is unlocked, and you can attach or detach your computer.
- Removal position **3R**: You can remove the system lock from the system-lock slot.

Note: The ThinkPad Basic Docking Station does not ship with a system lock installed. You can contact Lenovo sales to purchase a system lock with the option part number 4XE0Q56388.

2. Key lock indicator	This indicator turns on when the system lock key is in the locked position.
3. Docking status indicator	This indicator turns on when your computer is successfully connected to the docking station.
4. Power button	Press the power button to turn on or turn off the computer attached to the docking station.
5. Guide post	Use the guide post to help you position your computer properly when you attach the computer to the docking station.
6. Docking-station connector	Connect the computer to the docking station.
7. Hooks	Hold and secure the computer to the docking station.
8. Latch	Slide the latch to attach or detach the computer.

Rear view

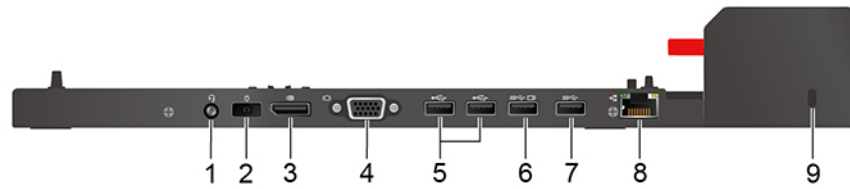


Figure 1. ThinkPad Basic Docking Station

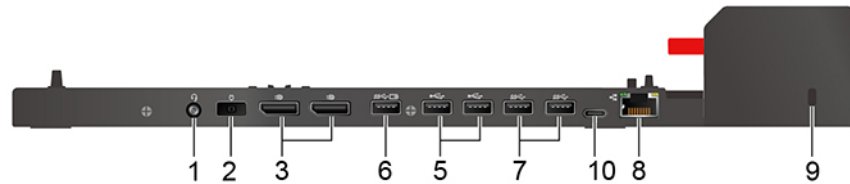


Figure 2. ThinkPad Pro Docking Station

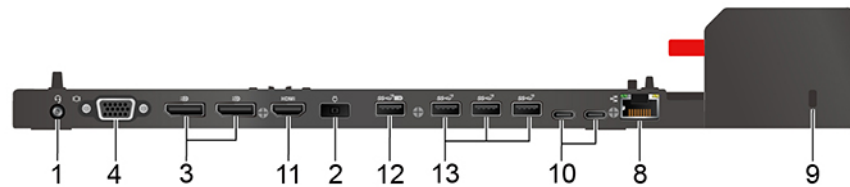


Figure 3. ThinkPad Ultra Docking Station

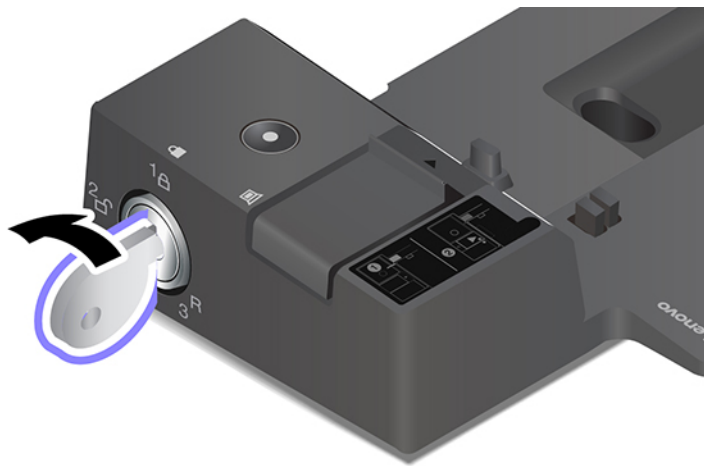
Connectors	ThinkPad Basic Docking Station	ThinkPad Pro Docking Station	ThinkPad Ultra Docking Station
1. Audio connector	√	√	√
2. ac power connector	√	√	√
3. DisplayPort® connector	√	√	√
4. VGA connector	√		√
5. USB-A 2.0 connector	√	√	
6. Always On USB-A 3.2 Gen 1 connector	√	√	
7. USB-A 3.2 Gen 1 connector	√	√	
8. Ethernet connector	√	√	√
9. Security-lock slot	√	√	√
10. USB-C connector		√	√
11. HDMI connector			√
12. Always On USB-A 3.2 Gen 2 connector			√
13. USB-A 3.2 Gen 2 connector			√

Note: The security-lock slot supports cable locks that conform to the Kensington MicroSaver lock standards (using T-bar locking technology) or MiniSaver lock standards (using Cleat locking technology).

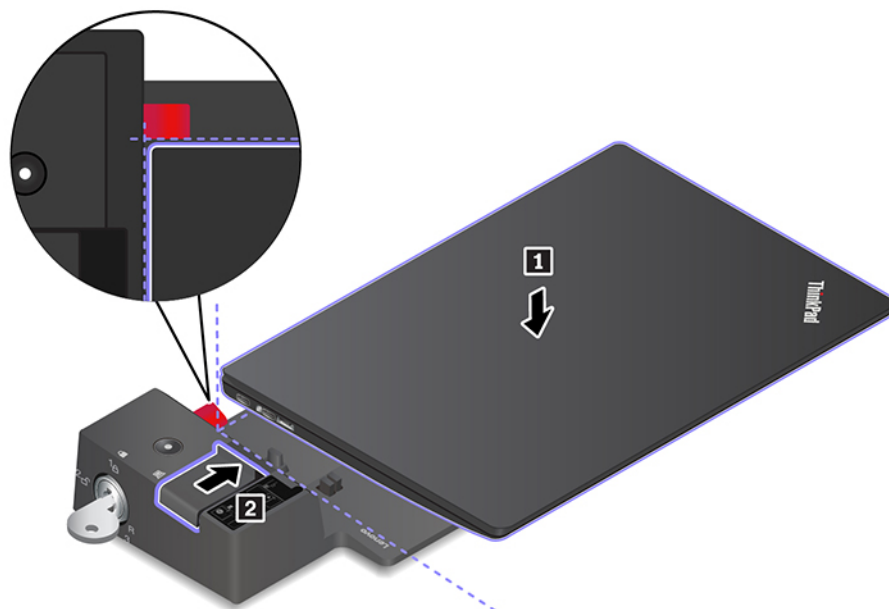
Attach a docking station

Notes:

- The ThinkPad Basic Docking Station does not ship with a system lock installed. If you do not purchase and install a system lock, skip step 4 and step 7 in the following instruction.
 - If you do not connect the docking station to ac power, the computer attached runs on battery power.
1. Connect the docking station to ac power.
 2. Disconnect the cables and devices from the left side of the computer.
 3. Turn the system lock key to the unlocked position (🔓).




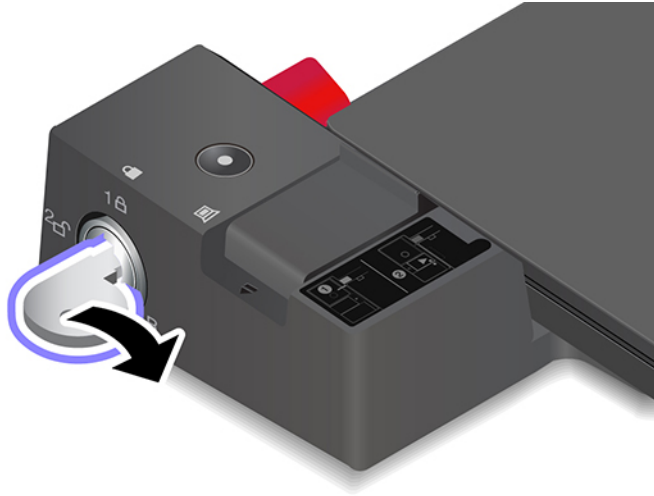
4. Align the top-left corner of the computer with the guide post of the docking station. Attach your computer to the docking station as shown **1** until you hear a click. Slide the latch in the direction as shown **2**.



5. Check the docking status indicator. The docking status indicator turns on when the computer is successfully docked.

Note: If the indicator is off, your computer is not attached to the docking station successfully. To solve the problem, detach and reattach the computer.


6. Turn the system lock key to the locked position (1 )

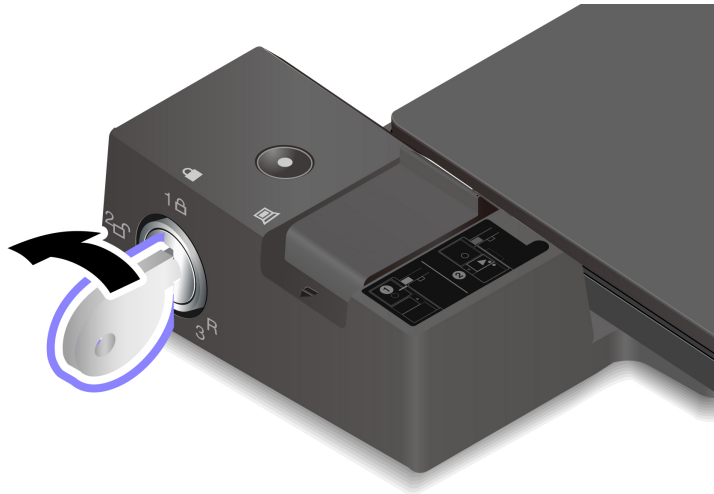


Attention: When the computer is attached to a docking station, always hold the whole assembly when you need to move your computer. Otherwise, the docking station might drop down.

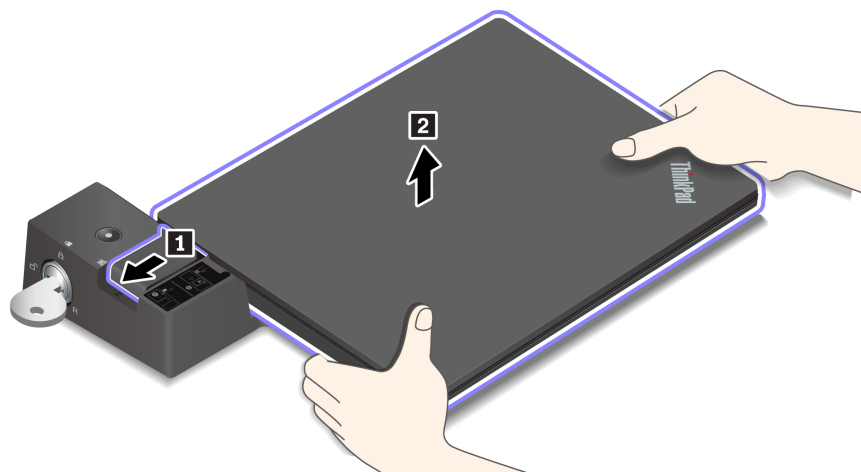
Detach a docking station

Note: The ThinkPad Basic Docking Station does not ship with a system lock installed. If you do not purchase and install a system lock, skip step 1 in the following instruction.

1. Turn the system lock key to the unlocked position (2 )



2. Slide the latch in the direction as shown **1** to release the computer, and then grasp both sides of the computer to remove it **2**.



Connect multiple external displays

You can connect multiple external displays to a supported docking station. To ensure that the multiple displays work correctly, observe the following guidelines and connect the external displays to the appropriate connectors.

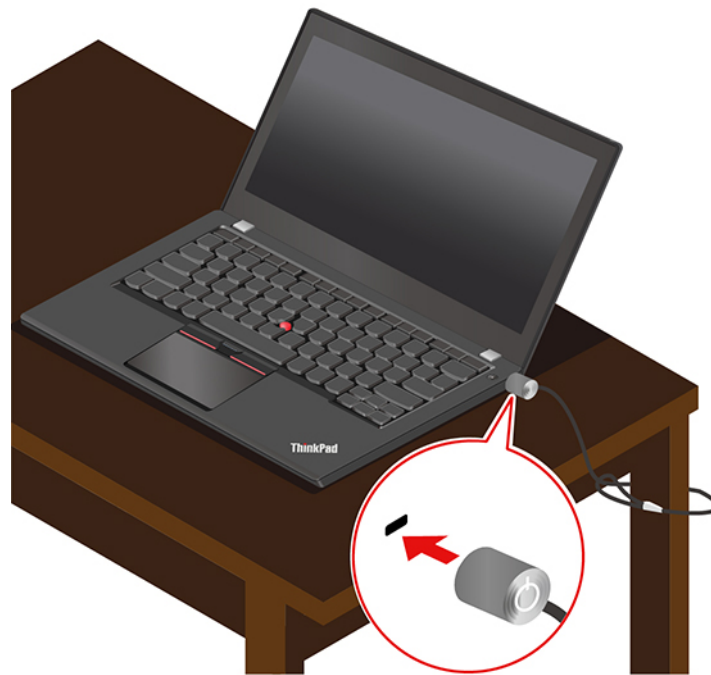
Docking station	Supported external displays	Video connectors
ThinkPad Basic Docking Station	Up to two	DisplayPort VGA
ThinkPad Pro Docking Station	Up to two	DisplayPort (x2)
ThinkPad Ultra Docking Station	Up to three	DisplayPort (x2) HDMI VGA

Chapter 5. Secure your computer and information

Lock the computer

Lock your computer to a desk, table, or other fixtures through a compatible security cable lock.

Note: The slot supports cable locks that conform to the Kensington MicroSaver® lock standards (using T-bar™ locking technology) or MiniSaver® lock standards (using Cleat™ locking technology). You are responsible for evaluating, selecting, and implementing the locking device and security feature. Lenovo makes no comments, judgments, or warranties about the function, quality, or performance of the locking device and security feature. Cable locks for your product are available from Lenovo at <https://smartfind.lenovo.com/>.



Use passwords

This section introduces types of passwords in UEFI (Unified Extensible Firmware Interface) BIOS (Basic Input/Output System) and how to set, change, and remove a password.

Password types

You can set a power-on password, supervisor password, system management password, or hard disk password in UEFI BIOS to prevent unauthorized access to your computer. However, you are not prompted to enter any UEFI BIOS password when your computer resumes from sleep mode.

Power-on password

If you set a power-on password, a window is displayed on the screen when you turn on the computer. Enter the correct password to use the computer.

Supervisor password

The supervisor password protects the system information stored in UEFI BIOS. When entering the UEFI BIOS menu, enter the correct supervisor password in the window prompted. You also can press Enter to skip the password prompt. However, you cannot change most of the system configuration options in UEFI BIOS.

If you have set both the supervisor password and power-on password, you can use the supervisor password to access your computer when you turn it on. The supervisor password overrides the power-on password.

System management password

The system management password can also protect the system information stored in UEFI BIOS like a supervisor password, but it has lower authority by default. The system management password can be set through the UEFI BIOS menu or through Windows Management Instrumentation (WMI) with the Lenovo client-management interface.

You can enable the system management password to have the same authority as the supervisor password to control security related features. To customize the authority of the system management password through the UEFI BIOS menu:

1. Enter the UEFI BIOS menu. See “Enter the UEFI BIOS menu” on page 47.

Note: When prompted to enter the password, enter the correct supervisor password if a supervisor password has been set, or enter the correct system management password if no supervisor password has been set. Otherwise, you cannot change the configurations in the following steps.

2. Select **Security → Password → System Management Password Access Control**.
3. Follow the on-screen instructions.

If you have set both the supervisor password and the system management password, the supervisor password overrides the system management password. If you have set both the system management password and the power-on password, the system management password overrides the power-on password.

Hard disk passwords

The hard disk password prevents unauthorized access to the data on the storage drive. When a hard disk password is set, you are prompted to type a correct password each time you try to access the storage drive.

To set the hard disk password, select one of the following types:

- **User hard disk password only**

When a user hard disk password is set without a master hard disk password, the user must enter the user hard disk password to access files and applications on the storage drive.

- **Master hard disk password + User hard disk password**

The master hard disk password is set and used by a system administrator. It enables the administrator to access any storage drive in a system or any computer connected in the same network. The administrator can also assign a user hard disk password for each computer in the network. The user of the computer can change the user hard disk password as desired, but only the administrator can remove the user hard disk password.

When prompted to enter a hard disk password, press F1 to switch between the master hard disk password and user hard disk password.

Note: The hard disk password is not available in the following situations:

- A Trusted Computing Group (TCG) Opal-compliant storage drive and a TCG Opal management software program are installed in the computer, and the TCG Opal management software program is activated.
- An eDrive storage drive is installed in the computer preinstalled with the Windows operating system.

Set, change, and remove a password

Before you start, print these instructions.

1. Restart the computer. When the logo screen is displayed, press F1 to enter the UEFI BIOS menu.
2. Select **Security → Password** by using the arrow keys.
3. Select the password type. Then, follow the on-screen instructions to set, change, or remove a password.

You should record all your passwords and store them in a safe place. If you forget any of your passwords, any potential repair actions required are not covered under warranty.

What to do if you forget your power-on password

If you forget your power-on password, do the following to remove the power-on password:

- If you have set a supervisor password and remember it:
 1. Restart the computer. When the logo screen is displayed, immediately press F1.
 2. Type the supervisor password to enter the UEFI BIOS menu.
 3. Select **Security → Password → Power-On Password** by using the arrow keys.
 4. Type the current supervisor password in the **Enter Current Password** field. Then, leave the **Enter New Password** field blank, and press Enter twice.
 5. In the Changes have been saved window, press Enter.
 6. Press F10 to save changes and exit the UEFI BIOS menu.
- If you have not set a supervisor password, contact a Lenovo authorized service provider to have the power-on password removed.

What to do if you forget your hard disk password

If you forget your user hard disk password or both user and master hard disk passwords, Lenovo cannot reset your passwords or recover data from the storage drive. You can contact a Lenovo authorized service provider to have the storage drive replaced. A fee will be charged for parts and service. If the storage drive is a CRU (Customer Replaceable Unit), you can also contact Lenovo to purchase a new storage drive to replace the old one by yourself. To check whether the storage drive is a CRU and the relevant replacement procedure, see Chapter 7 “CRU replacement” on page 51.

What to do if you forget your supervisor password

If you forget your supervisor password, there is no service procedure to remove the password. You have to contact a Lenovo authorized service provider to have the system board replaced. A fee will be charged for parts and service.

What to do if you forget your system management password

If you forget your system management password, do the following to remove the system management password:

- If you have set a supervisor password and remember it:
 1. Restart the computer. When the logo screen is displayed, immediately press F1.
 2. Type the supervisor password to enter the UEFI BIOS menu.
 3. Select **Security → Password → System Management Password** by using the arrow keys.

4. Type the current supervisor password in the **Enter Current Password** field. Then, leave the **Enter New Password** field blank, and press Enter twice.
 5. In the Changes have been saved window, press Enter.
 6. Press F10 to save changes and exit the UEFI BIOS menu.
- If you have not set a supervisor password, contact a Lenovo authorized service provider to have the system management password removed.

Use Power Loss Protection function (for selected models)

For models shipped with an NVMe (Non-Volatile Memory express) M.2 solid-state drive, the M.2 solid-state drive features the Lenovo-unique PLP (Power Loss Protection) function to avoid data loss or damage. On very rare occasions, your computer is not responding and you might have to shut down your computer by pressing and holding the power button for about seven seconds. In this case, the PLP function enables key data of your computer to be saved timely. However, there is no guarantee that all data is saved in any situation. To check the type of your M.2 solid-state drive:

1. Restart the computer. When the logo screen is displayed, press F10 to enter the Lenovo diagnostics window.
2. On the TOOLS tab, select **SYSTEM INFORMATION → STORAGE** using the arrow keys.
3. Locate the **Device Type** section to check the information.

Use the fingerprint reader (for selected models)

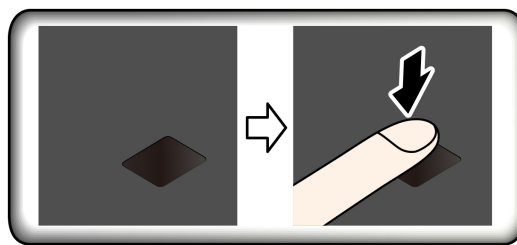
If your computer comes with a fingerprint reader, you can use it to enroll your fingerprints. After enrollment, you can tap your finger on the fingerprint reader to log in to Windows.

Enroll your fingerprints

1. Type Sign-in options in the Windows search box and then press Enter.
2. Select the fingerprint setting and then follow the on-screen instruction to enroll your fingerprint.

Note: It is recommended that you put your finger at the middle of the fingerprint reader during enrollment and enroll more than one fingerprint in case of any injuries to your fingers. After the enrollment, the fingerprints are associated with the Windows password automatically.

Log in with your fingerprint



Associate your fingerprints with your power-on password and hard disk password

1. Turn off and then turn on the computer.
2. When prompted, scan your finger on the fingerprint reader.
3. Enter your power-on password, hard disk password, or both as required. The connection is created.

When you start the computer again, you can use your fingerprints to log in to the computer without entering your Windows password, power-on password, or hard disk password. To change the settings, go to the UEFI BIOS menu.

Attention: If you always use your fingerprint to log in to the computer, you might forget your passwords. Write down your passwords, and keep them in a safe place.

Maintain the fingerprint reader

To ensure that the fingerprint reader works correctly, do not:

- Scratch the surface of the reader with anything hard.
- Use or touch the reader with a wet, dirty, wrinkled, or injured finger.

Use face authentication (for selected models)

If your computer comes with a Windows Hello-compatible infrared camera, you can unlock your computer by scanning your face instead of using a password.

Note: If your computer is equipped with a ThinkShutter, slide the ThinkShutter to uncover the camera lens before using the Windows Hello face recognition.

Create your face ID and unlock your computer by scanning your face:

1. Type Sign-in options in the Windows search box and then press Enter.
2. Select the face ID setting and then follow the on-screen instruction to create your face ID.

Use firewalls and antivirus programs

Your computer might be preinstalled with a firewall program. The firewall protects against computer Internet security threats, unauthorized access, intrusions, and Internet attacks. It also protects your privacy.

A full version of antivirus program is provided with a free 30-day subscription. After 30 days, you must renew the license to continue receiving the antivirus program updates.

For more information, see the help system of the program.

Chapter 6. Configure advanced settings

This chapter provides information about UEFI BIOS, RAID, recovery, operating system installation, and system management.

UEFI BIOS

This section introduces what is UEFI BIOS and the operations you can perform in UEFI BIOS.

What is UEFI BIOS

UEFI BIOS is the first program that the computer runs when the computer is turned on. UEFI BIOS initializes the hardware components and loads the operating system and other programs. Your computer comes with a setup program with which you can change UEFI BIOS settings.

Enter the UEFI BIOS menu

Restart the computer. When the logo screen is displayed, press F1 to enter the UEFI BIOS menu.

Note: If you have set the supervisor password, enter the correct password when prompted. You also can press Enter to skip the password prompt and enter the UEFI BIOS menu. However, you cannot change the system configurations that are protected by the supervisor password.

Navigate in the UEFI BIOS interface

Attention: The default configurations are already optimized for you in **boldface**. Improper change of the configurations might cause unexpected results.

You can navigate in the UEFI BIOS interface by pressing the following keys:

F1	Display the General Help screen.
F9	Restore to the default settings.
F10	Save your configuration and exit.
F5	Change to a lower value.
F6	Change to a higher value.
↑ ↓	Locate an item.
Tab	Select a tab.
Esc	Exit the submenu and return to the parent menu.
Enter	Enter the selected tab or submenu.

Change the startup sequence

1. Restart the computer. When the logo screen is displayed, press F1.
2. Select **Startup → Boot**. Then, press Enter. The default device order list is displayed.

Note: No bootable device is displayed if the computer cannot start from any devices or the operating system cannot be found.

3. Set the startup sequence as desired.

4. Press F10 to save the changes and exit.

To change the startup sequence temporarily:

1. Restart the computer. When the logo screen is displayed, press F12.
2. Select the device that you want the computer to start from and press Enter.

Set the system date and time

1. Restart the computer. When the logo screen is displayed, press F1.
2. Select **Date/Time** and set the system date and time as desired.
3. Press F10 to save changes and exit.

Update UEFI BIOS

When you install a new program, device driver, or hardware component, you might need to update UEFI BIOS.

Download and install the latest UEFI BIOS update package by one of the following methods:

- Open the Vantage app to check the available update packages. If the latest UEFI BIOS update package is available, follow the on-screen instructions to download and install the package.
- Go to <https://pcsupport.lenovo.com> and select the entry for your computer. Then, follow the on-screen instructions to download and install the latest UEFI BIOS update package.

Install a Windows operating system and drivers

This section provides instructions on installing a Windows operating system and device drivers.

Install a Windows operating system

Microsoft® constantly makes updates to the Windows operating system. Before installing a particular Windows version, check the compatibility list for the Windows version. For details, go to <https://support.lenovo.com/us/en/solutions/windows-support>.

Attention:

- It is recommended that you update your operating system through official channels. Any unofficial update might cause security risks.
 - The process of installing a new operating system deletes all the data on your internal storage drive, including the data stored in a hidden folder.
 - For computer models that are installed with a hybrid solid-state drive (with Intel Optane memory), ensure that you do not install the operating system into Optane memory.
1. If you are using the Windows BitLocker® Drive Encryption feature and your computer has a Trusted Platform Module, ensure that you have disabled the feature.
 2. Ensure that the security chip is set to **Active**.
 - a. Restart the computer. When the logo screen is displayed, press F1 to enter the UEFI BIOS menu.
 - b. Select **Security** → **Security Chip** and press Enter. The **Security Chip** submenu opens.
 - c. Ensure that the security chip for TPM 2.0 is set to **Active**.
 - d. Press F10 to save the settings and exit.

3. For computer models that are installed with hybrid solid-state drive (with Intel Optane memory), enter the UEFI BIOS menu and select **Config → Storage → Controller mode**. Ensure that **RST mode** is selected.
4. Connect the drive that contains the operating system installation program to the computer.
5. Restart the computer. When the logo screen is displayed, press F1 to enter the UEFI BIOS menu.
6. Select **Startup → Boot** to display the **Boot Priority Order** submenu.
7. Select the drive that contains the operating system installation program, for example, **USB HDD**. Then, press Esc.

Attention: After you change the startup sequence, ensure that you select the correct device during a copy, a save, or a format operation. If you select the wrong device, the data on that device might be erased or overwritten.

8. Select **Restart** and ensure that **OS Optimized Defaults** is enabled. Then, press F10 to save the settings and exit.
9. Follow the on-screen instructions to install the device drivers and necessary programs.
10. After installing the device drivers, apply Windows Update to get the latest updates, for example the security patches.

Install device drivers

You should download the latest driver for a component when you notice poor performance from that component or when you added a component. This action might eliminate the driver as the potential cause of a problem. Download and install the latest driver by one of the following methods:

- Open the Vantage app to check the available update packages. Select the update packages you want, and then follow the on-screen instructions to download and install the packages.
- Go to <https://pcsupport.lenovo.com> and select the entry for your computer. Then, follow the on-screen instructions to download and install necessary drivers and software.

Chapter 7. CRU replacement

What are CRUs

Customer Replaceable Units (CRUs) are parts that can be replaced by the customer. The computers contain the following types of CRUs:

- **Self-service CRUs:** Refer to parts that can be replaced easily by customer themselves or by trained service technicians at an additional cost.
- **Optional-service CRUs:** Refer to parts that can be replaced by customers with a greater skill level. Trained service technicians can also provide service to replace the parts under the type of warranty designated for the customer's machine.

If you intend on installing a CRU, Lenovo will ship the CRU to you. CRU information and replacement instructions are shipped with your product and are available from Lenovo at any time upon request. You might be required to return the defective part that is replaced by the CRU. When return is required: (1) return instructions, a prepaid shipping label, and a container will be included with the replacement CRU; and (2) you might be charged for the replacement CRU if Lenovo does not receive the defective CRU within thirty (30) days of your receipt of the replacement CRU. For full details, see the Lenovo Limited Warranty documentation at https://www.lenovo.com/warranty/llw_02.

Refer to the following CRU list for your computer.

Self-service CRUs

- ac power adapter
- Base cover assembly
- Nano-SIM-card and microSD-card tray*
- Power cord

Optional-service CRUs

- Keyboard (for ThinkPad X13 Gen 1)
- M.2 solid-state drive*
- M.2 solid-state drive bracket*
- Wireless WAN card*

* for selected models

Note: Replacement of any parts not listed above, including the built-in rechargeable battery, must be done by a Lenovo-authorized repair facility or technician. Go to <https://support.lenovo.com/partnerlocator> for more information.

Disable Fast Startup and the built-in battery

Before replacing any CRU, ensure that you disable Fast Startup first and then disable the built-in battery.

To disable Fast Startup:

1. Go to **Control Panel** and view by Large icons or Small icons.
2. Click **Power Options**, and then click **Choose what the power buttons do** on the left pane.
3. Click **Change settings that are currently unavailable** at the top.

4. If prompted by User Account Control (UAC), click **Yes**.
5. Clear the **Turn on fast startup** check box, and then click **Save changes**.

To disable the built-in battery:

1. Restart your computer. When the logo screen is displayed, immediately press F1 to enter the UEFI BIOS menu.
2. Select **Config → Power**. The **Power** submenu is displayed.
3. Select **Disable Built-in Battery** and press Enter.
4. Select **Yes** in the Setup Confirmation window. The built-in battery is disabled and the computer turns off automatically. Wait three to five minutes to let the computer cool.

Replace a CRU

Follow the replacement procedure to replace a CRU.

Base cover assembly

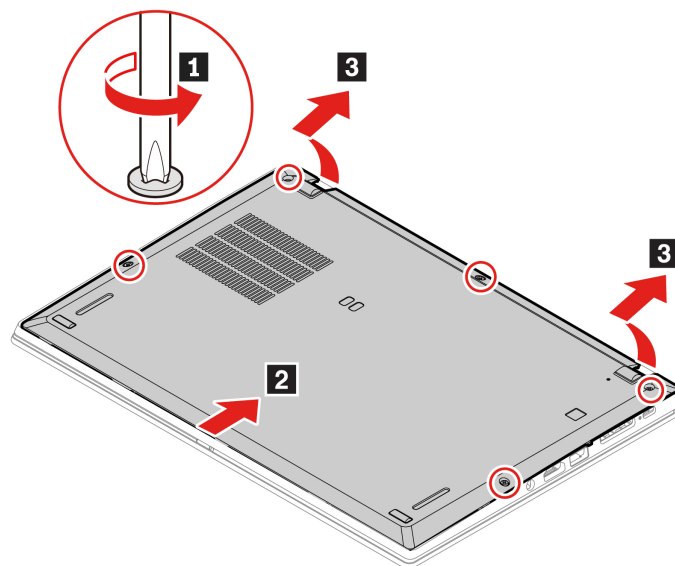
Prerequisite

Before you start, read Appendix A “Important safety information” on page 73 and print the following instructions.

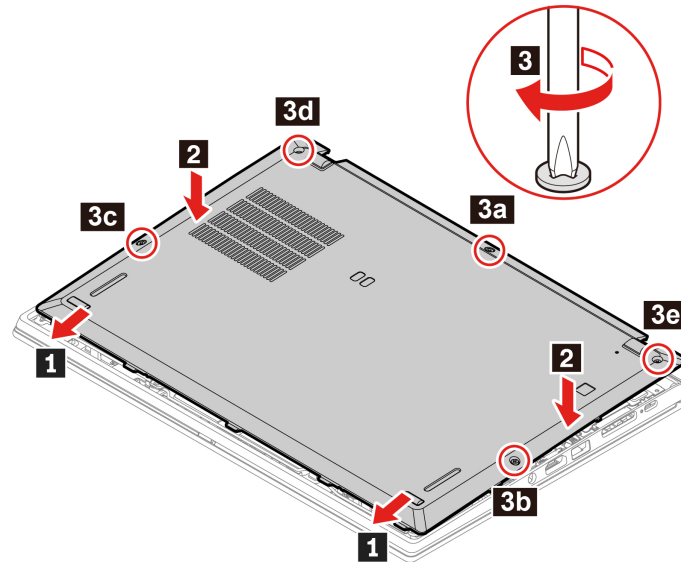
Note: There might be a risk of short circuits if you remove the base cover assembly when your computer is connected to ac power.

Replacement procedure

1. Disable the built-in battery. See “Disable Fast Startup and the built-in battery” on page 51.
2. Turn off the computer and disconnect the computer from ac power and all connected cables.
3. Close the computer display and turn over the computer.
4. Loosen the screws that secure the base cover assembly **1**. Push the base cover assembly forward as shown **2** and remove the base cover assembly **3**.



5. Install a new base cover assembly in place **1**. Press the left and right sides of the base cover assembly as shown **2** and then tighten the screws in ascending alphabetical order (a to e) as illustrated **3**.



6. Turn over the computer. Connect the ac power adapter and all disconnected cables to the computer.

Troubleshooting

If the computer does not start up after you reinstall the base cover assembly, disconnect the ac power adapter and then reconnect it to the computer.

M.2 solid-state drive

Prerequisite

Before you start, read Appendix A “Important safety information” on page 73 and print the following instructions.

Attention:

- If you replace a M.2 solid-state drive, you might need to install a new operating system. For details on how to install a new operating system, see “Install a Windows operating system and drivers” on page 48.
- If your computer is installed with a hybrid solid-state drive (with Intel Optane memory), go to https://support.lenovo.com/docs/tg_ssd to know the details on how to replace it.

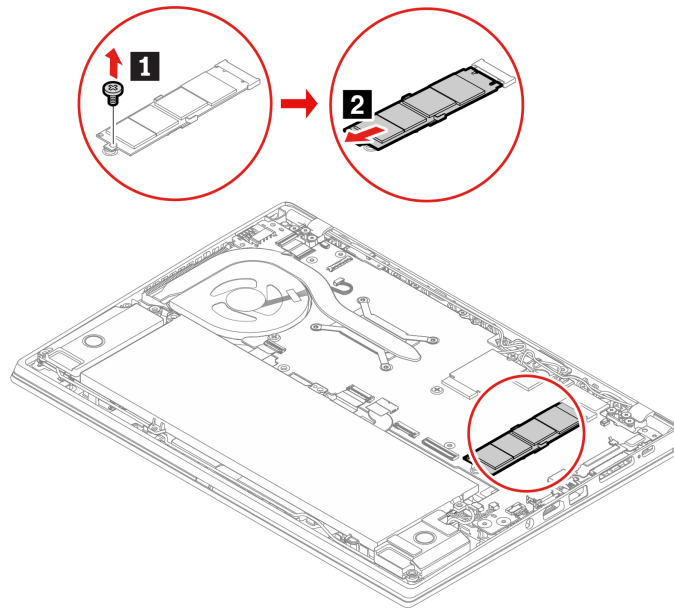
The M.2 solid-state drive is sensitive. Inappropriate handling might cause damage and permanent loss of data.

When handling the M.2 solid-state drive, observe the following guidelines:

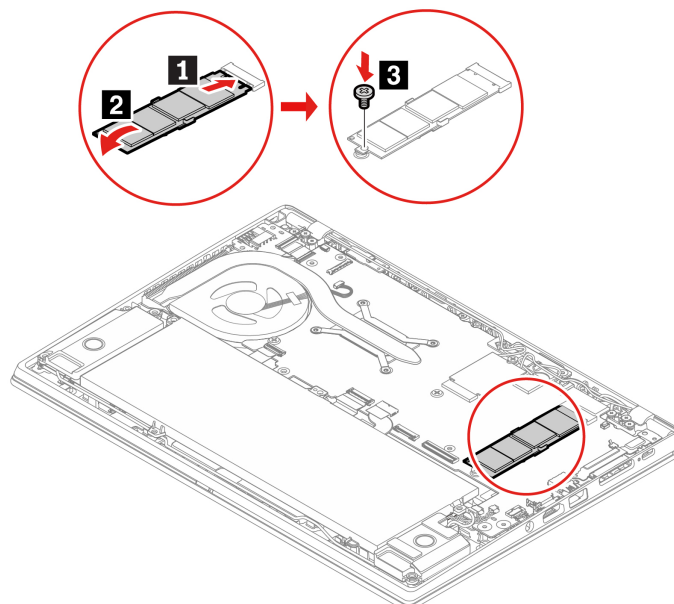
- Replace the M.2 solid-state drive only for repair. The M.2 solid-state drive is not designed for frequent changes or replacement.
- Before replacing the M.2 solid-state drive, make a backup copy of all the data that you want to keep.
- Do not apply pressure to the M.2 solid-state drive.
- Do not touch the contact edge or circuit board of the M.2 solid-state drive. Otherwise, the M.2 solid-state drive might get damaged.
- Do not make the M.2 solid-state drive subject to physical shocks or vibration. Put the M.2 solid-state drive on a soft material, such as cloth, to absorb physical shocks.

The long M.2 solid-state drive

1. Disable the built-in battery. See “Disable Fast Startup and the built-in battery” on page 51.
2. Turn off the computer and disconnect the computer from ac power and all connected cables.
3. Close the computer display and turn over the computer.
4. Remove the base cover assembly. See “Base cover assembly” on page 52.
5. Remove the screw that secures the M.2 solid-state drive **1**. Then, remove the drive out of the slot **2**.



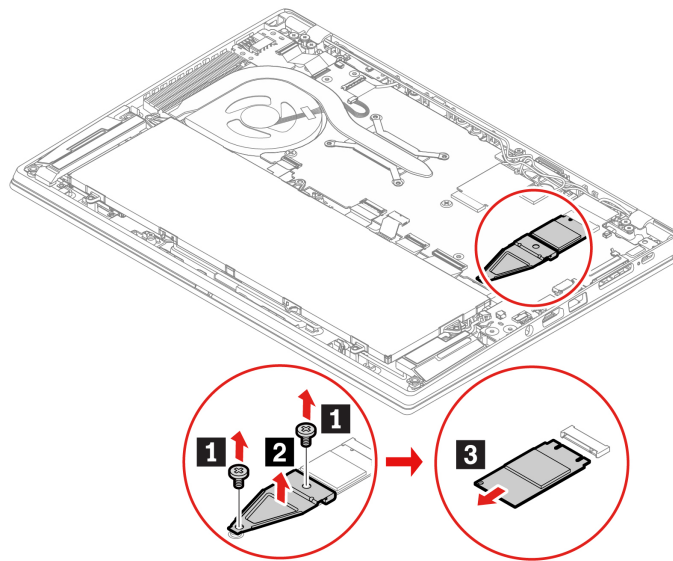
6. Install a new M.2 solid-state drive:
 - a. Align the contact edge of the new M.2 solid-state drive with the key in the slot. Then, carefully insert the drive into the slot at an angle of about 20 degrees **1**.
 - b. Pivot the M.2 solid-state drive downward **2**.
 - c. Install the screw to secure the M.2 solid-state drive **3**.



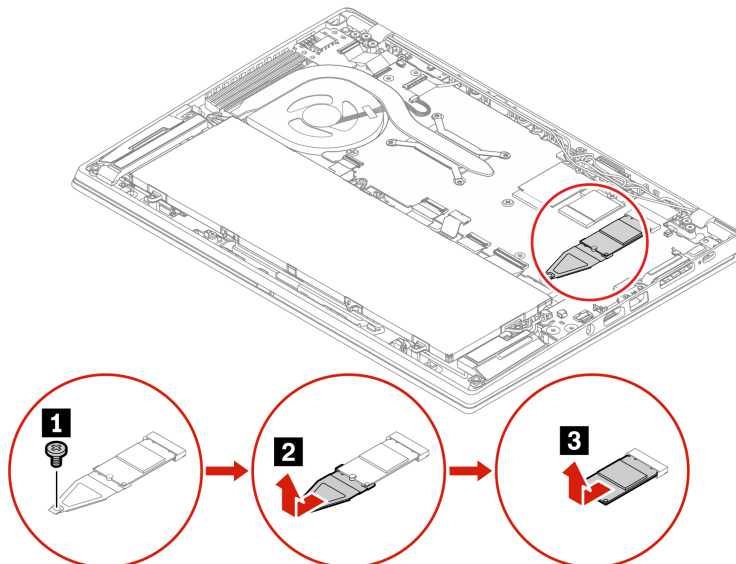
7. Reinstall the base cover assembly.
8. Turn over the computer. Connect the ac power adapter and all disconnected cables to the computer.

The short M.2 solid-state drive and its bracket

1. Disable the built-in battery. See “Disable Fast Startup and the built-in battery” on page 51.
2. Turn off the computer and disconnect the computer from ac power and all connected cables.
3. Close the computer display and turn over the computer.
4. Remove the base cover assembly. See “Base cover assembly” on page 52.
5. Do one of the following to remove the M.2 solid-state drive and its bracket:
 - Type one: Remove the screws that secure the M.2 solid-state drive bracket **1**, and remove the bracket **2**. Then, remove the drive out of the slot **3**.

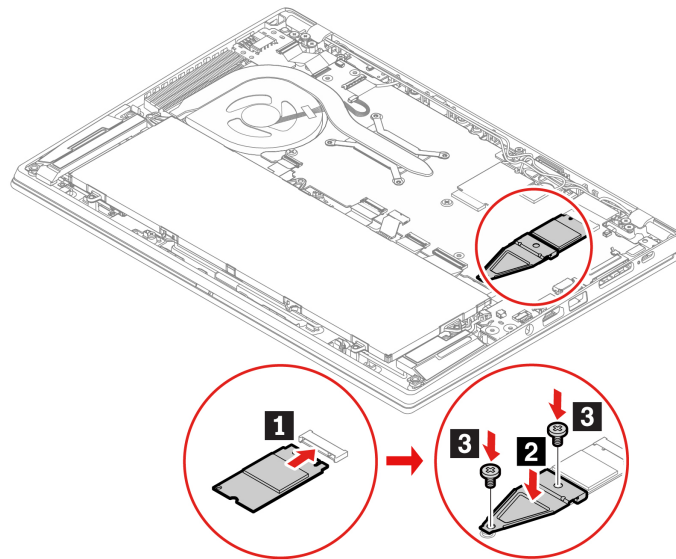


- Type two: Remove the screw that secures the M.2 solid-state drive bracket **1**, and remove the bracket **2**. Then, remove the drive out of the slot **3**.

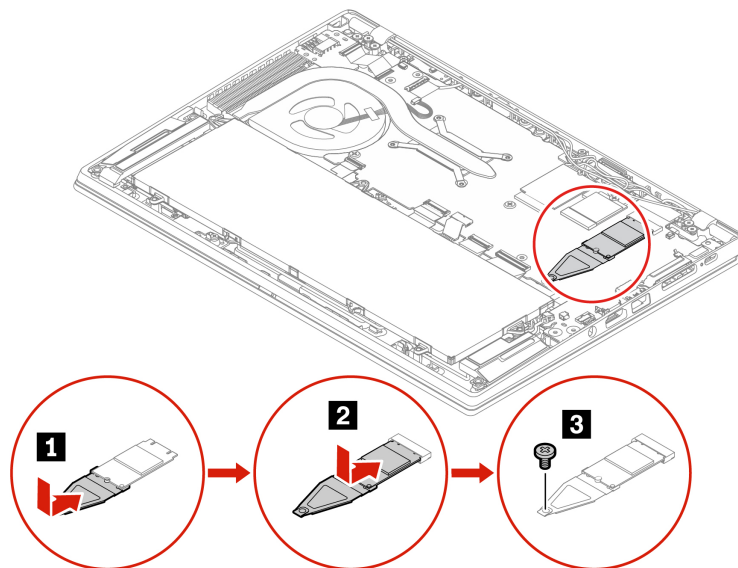


6. Do one of the following to install the M.2 solid-state drive and its bracket:

- Type one: Align the contact edge of the new M.2 solid-state drive with the key in the slot. Then, carefully insert the drive into the slot **1**. Then, Put the bracket in place **2**. Install the screws to secure the bracket **3**.



- Type two: Install the new M.2 solid-state drive on the bracket **1** and insert the new M.2 solid-state drive with the bracket into the drive slot **2**. Then, install the screw to secure the bracket **3**.



7. Reinstall the base cover assembly.

8. Turn over the computer. Connect the ac power adapter and all disconnected cables to the computer.

Wireless WAN card (for selected models)

The following information is only for the computer with user-installable modules. Ensure that you use only a Lenovo-authorized wireless module specifically tested for this computer model. Otherwise, the computer will generate an error-code beep sequence when you turn on the computer.

Prerequisite

Before you start, read Appendix A “Important safety information” on page 73 and print the following instructions.

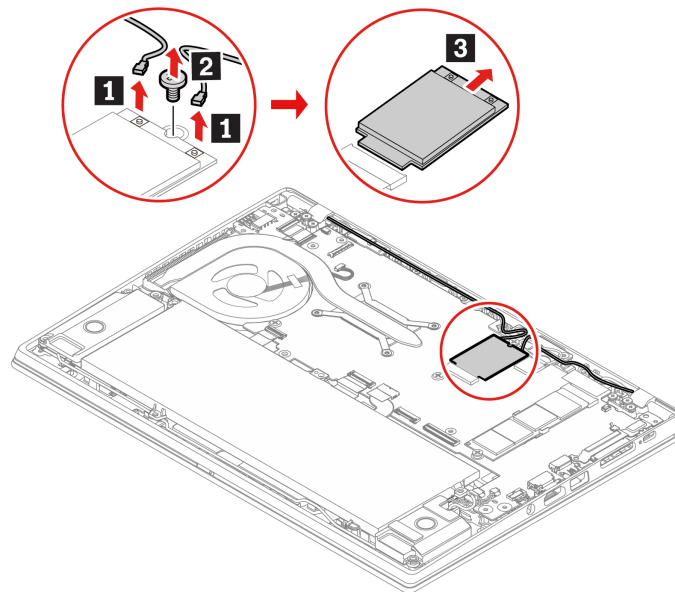
Attention: Do not touch the contact edge of the wireless WAN card. Otherwise, the wireless WAN card might get damaged.

Replacement procedure

1. Disable the built-in battery. See “Disable Fast Startup and the built-in battery” on page 51.
2. Turn off the computer and disconnect the computer from ac power and all connected cables.
3. Close the computer display and turn over the computer.
4. Remove the base cover assembly. See “Base cover assembly” on page 52.
5. Remove the wireless WAN card:

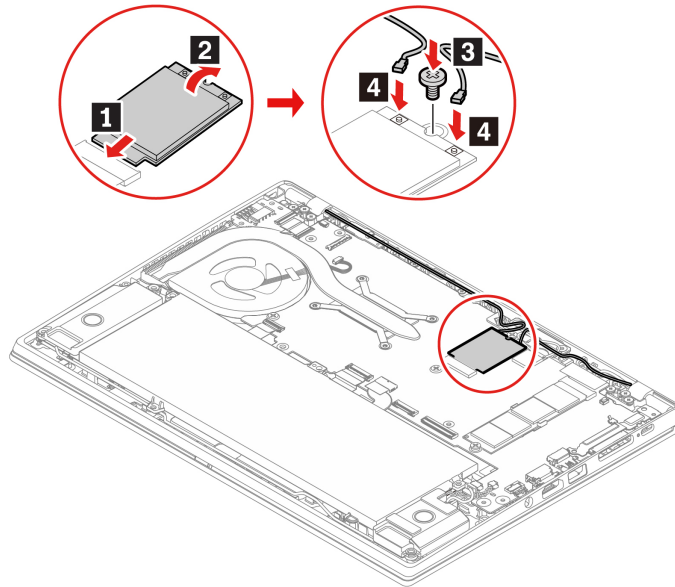
Note: A Mylar film might cover the wireless WAN card. To access the wireless WAN card, open the Mylar film first.

- a. Gently disconnect the wireless cable connectors with your fingers **1**. Then, remove the screw that secures the wireless WAN card **2** and the card pivots up.
- b. Carefully remove the wireless WAN card out of the slot **3**.



6. Install a new wireless WAN card:

- a. Align the contact edge of the new wireless WAN card with the key in the slot. Then, carefully insert the card into the slot at an angle of about 20 degrees **1** and pivot downward **2**.
- b. Install the screw to secure the wireless WAN card in place **3**. Connect the wireless cable connectors to the card **4**. Ensure that you connect the orange cable to the main connector on the card, and the blue cable to the auxiliary connector on the card.



7. Reinstall the base cover assembly.

8. Turn over the computer. Connect the ac power adapter and all disconnected cables to the computer.

Keyboard (for ThinkPad X13 Gen 1)

Prerequisite

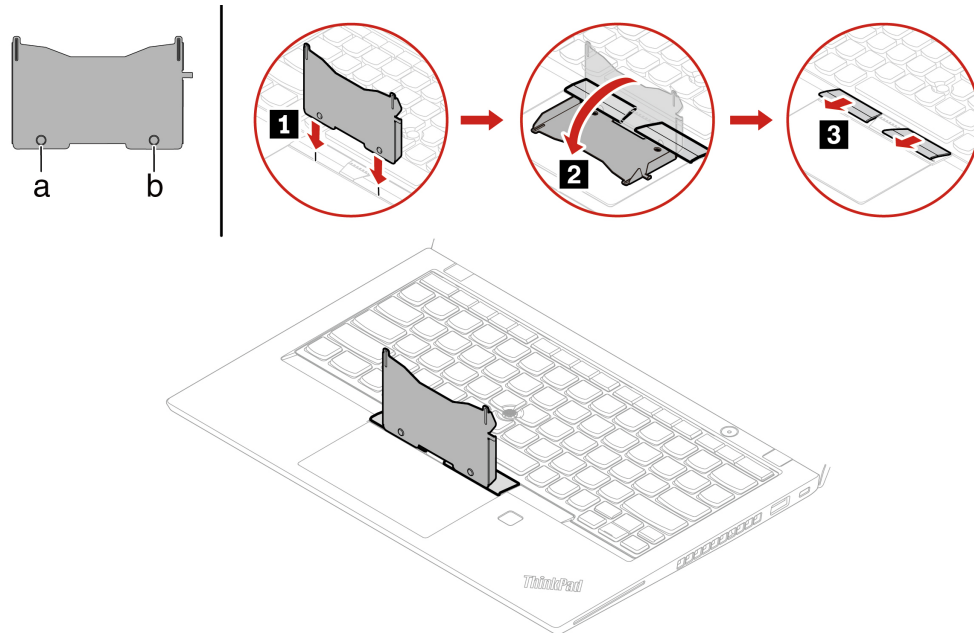
Before you start, read Appendix A “Important safety information” on page 73 and print the following instructions.

Replacement procedure

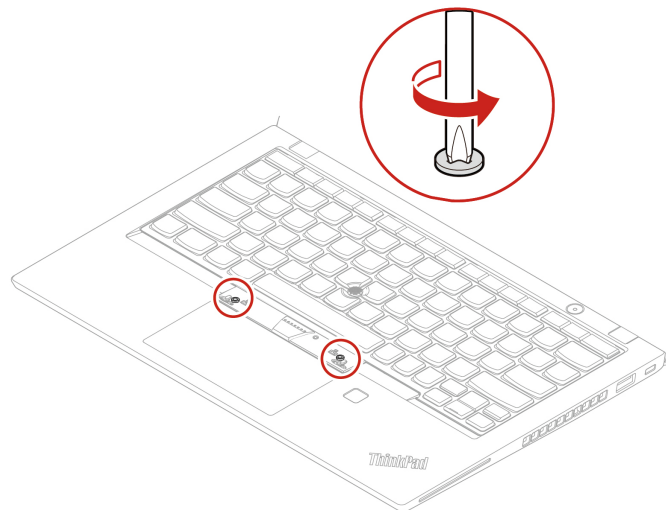
Note: You might be instructed to slide the keyboard frame forward or backward in some of the following steps. In this case, ensure that you do not press or hold the keys while sliding the keyboard frame. Otherwise, the keyboard frame cannot be moved.

1. Disable the built-in battery. See “Disable Fast Startup and the built-in battery” on page 51.
2. Turn off the computer and disconnect the computer from ac power and all connected cables.

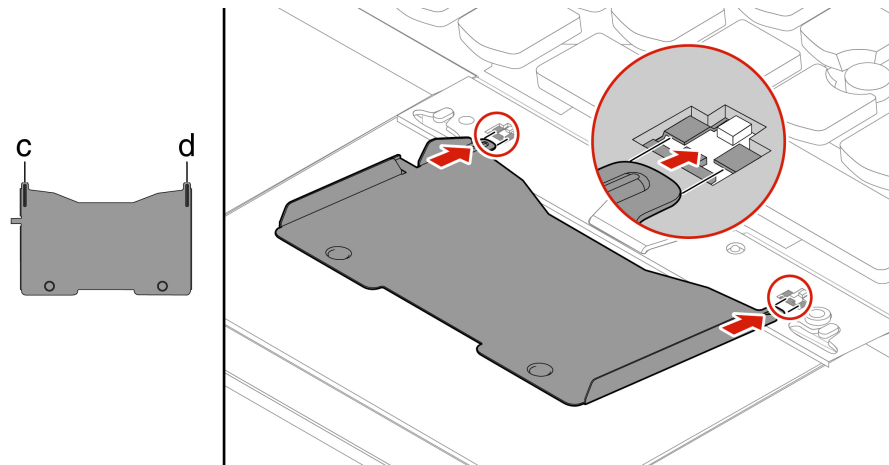
3. Take the tool out of the new keyboard package. Insert the tabs **a** and **b** into the slot between the TrackPoint buttons and the trackpad **1**. Slightly pivot the tool downward **2** to release the left and right TrackPoint buttons. Then, remove the two Trackpoint buttons **3**.



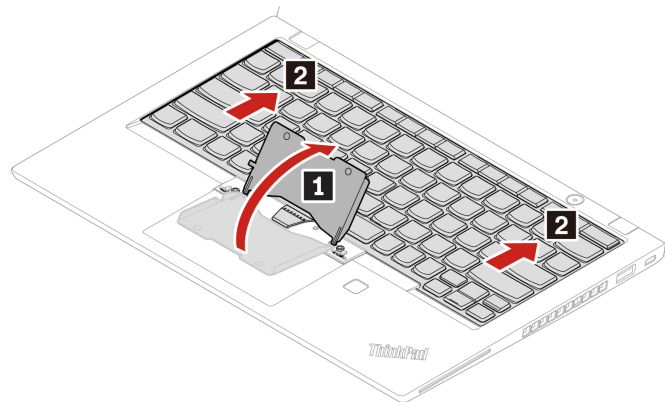
4. Loosen the screws that secure the keyboard.



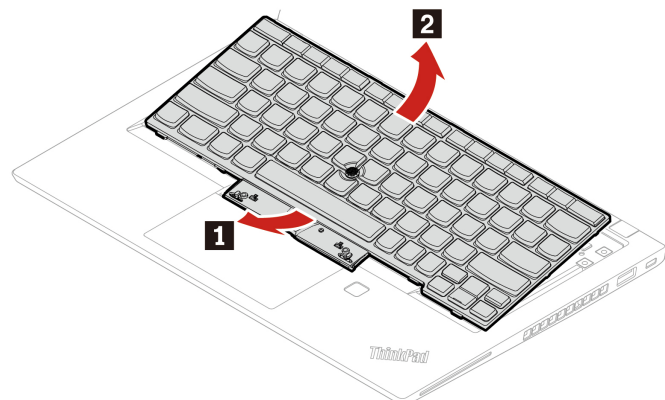
5. Insert the tabs **c** and **d** into the two dents near the two screw heads as shown.



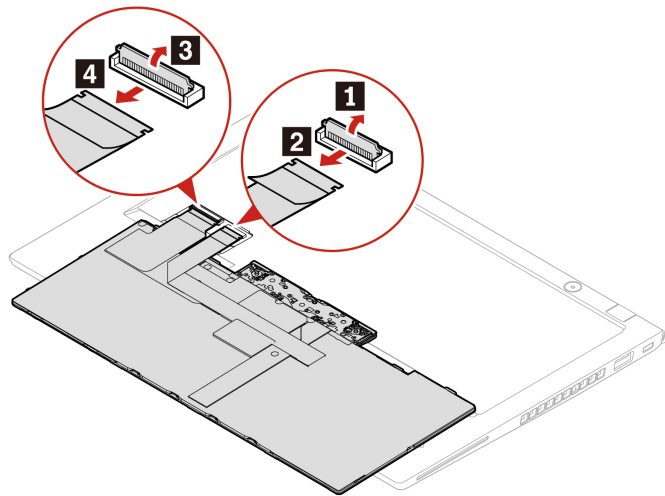
6. Pivot the tool in the direction as shown to release the keyboard **1**. Push the keyboard in the direction as shown by arrows **2** to release the latches from the keyboard bezel.



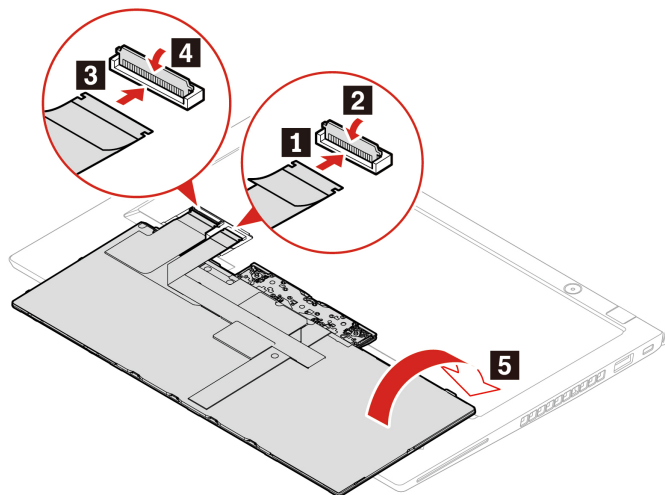
7. Pivot the keyboard slightly upward **1** and then turn over the keyboard **2**.



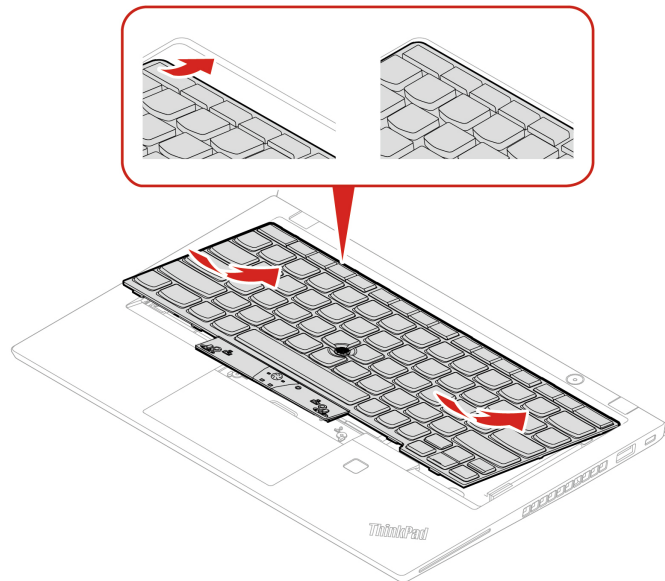
8. Put the keyboard on the palm rest as shown and detach the connectors. Then, remove the keyboard.



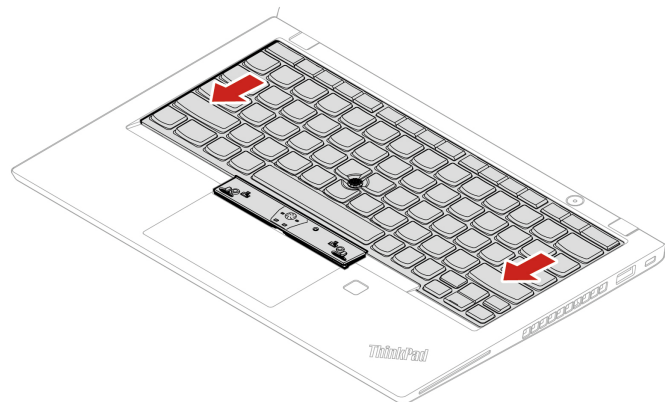
9. Attach the connectors and then turn over the keyboard.



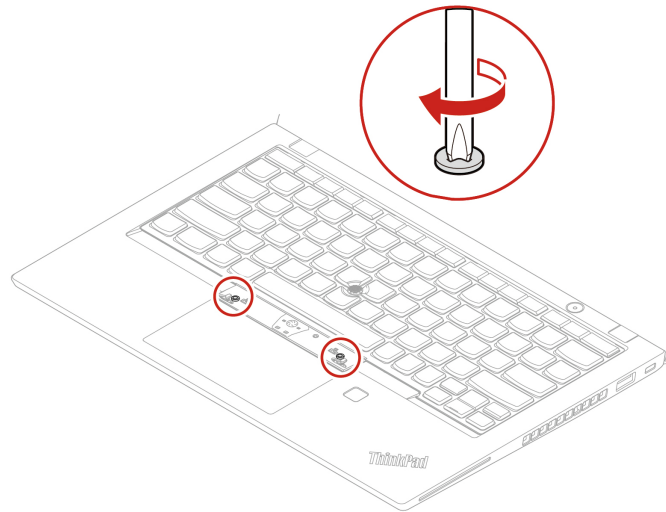
10. Insert the keyboard into the keyboard bezel as shown. Ensure that the top edge of the keyboard (the edge that is close to the display) is under the keyboard bezel.



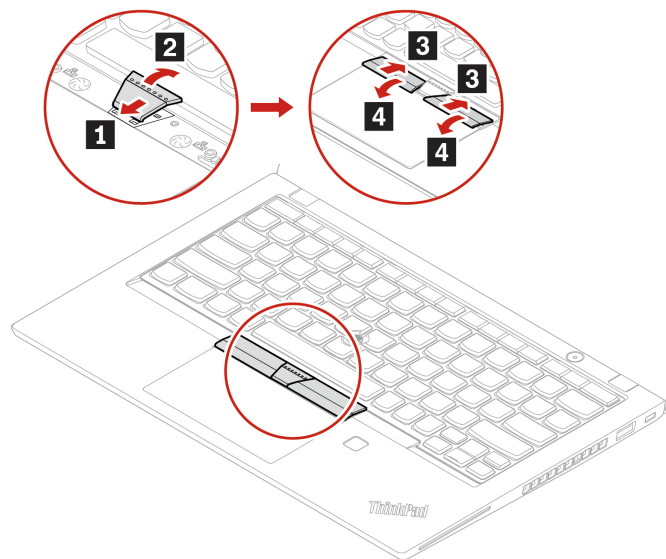
11. Slide the keyboard in the direction as shown. Ensure that the latches are secured under the keyboard frame.



12. Tighten the screws to secure the keyboard.




13. Take the new TrackPoint buttons out of the new keyboard package. Install the TrackPoint buttons as shown.



14. Connect the ac power adapter and all disconnected cables to the computer.

Chapter 8. Help and support

Frequently asked questions

How do I access Control Panel ?	Type Control Panel in the Windows search box and then press Enter.
How do I turn off my computer?	Open the Start menu and click  Power . Then, click Shut down .
How do I partition my storage drive?	https://support.lenovo.com/solutions/ht503851
What do I do if my computer stops responding.	<ol style="list-style-type: none">1. Press and hold the power button until the computer turns off. Then, restart the computer.2. If step 1 does not work:<ul style="list-style-type: none">• For models with an emergency reset hole: Insert a straightened paper clip into the emergency reset hole to cut off power supply temporarily. Then, restart the computer with ac power connected.• For models without an emergency reset hole:<ul style="list-style-type: none">– For models with the removable battery, remove the removable battery and disconnect all power sources. Then, reconnect to ac power and restart the computer.– For models with the built-in battery, disconnect all power sources. Press and hold the power button for about seven seconds. Then, reconnect to ac power and restart the computer.
What do I do if I spill liquid on the computer?	<ol style="list-style-type: none">1. Carefully unplug the ac power adapter and turn off the computer immediately. The more quickly you stop the current from passing through the computer the more likely you will reduce damage from short circuits. Attention: Although you might lose some data or work by turning off the computer immediately, leaving the computer on might make your computer unusable.2. Do not try to drain out the liquid by turning over the computer. If your computer has keyboard drainage holes on the bottom, the liquid will be drained out through the holes.3. Wait until you are certain that all the liquid is dry before turning on your computer.
How do I enter the UEFI BIOS menu?	Restart the computer. When the logo screen is displayed, press F1 to enter the UEFI BIOS menu.
Where can I get the latest device drivers and UEFI BIOS?	<ul style="list-style-type: none">• From the Vantage app. See “Install a Windows operating system and drivers” on page 48 and “Update UEFI BIOS” on page 48.• Download from Lenovo Support Web site at https://pcsupport.lenovo.com.
What do I do if the LCD goes black when I turn on the computer?	<p>To run LCD Self-Test:</p> <ol style="list-style-type: none">1. Ensure that the computer is connected to the ac power adapter.2. Press the power button for about seven seconds to turn off the computer.3. Press Fn, left Ctrl, and the power button at the same time. If the computer displays five solid colors in sequence across the entire screen, it indicates that the LCD functions normally.4. The test lasts for about 20 seconds and then exits automatically. You also can press the power button to exit the test.

Error messages

If you see a message that is not included in the following table, record the error message first, then shut down the computer and call Lenovo for help. See “Lenovo Customer Support Center” on page 71.

Message	Solution
0190: Critical low-battery error	The computer turned off because the battery power is low. Connect the ac power adapter to the computer and charge the batteries.
0191: System Security - Invalid remote change requested	The system configuration change has failed. Confirm the operation and try again.
0199: System Security - Security password retry count exceeded.	This message is displayed when you enter a wrong supervisor password more than three times. Confirm the supervisor password and try again.
0271: Check Date and Time settings.	The date or the time is not set in the computer. Enter the UEFI BIOS menu and set the date and time.
210x/211x: Detection/Read error on HDDx/SSDx	The storage drive is not working. Reinstall the storage drive. If the problem still exists, replace the storage drive.
Error: The non-volatile system UEFI variable storage is nearly full.	<p>Note: This error indicates that the operating system or programs cannot create, modify, or delete data in the non-volatile system UEFI variable storage due to insufficient storage space after POST.</p> <p>The non-volatile system UEFI variable storage is used by the UEFI BIOS and by the operating system or programs. This error occurs when the operating system or programs store large amounts of data in the variable storage. All data needed for POST, such as UEFI BIOS setup settings, chipset, or platform configuration data, are stored in a separate UEFI variable storage.</p> <p>Press F1 after the error message is displayed to enter the UEFI BIOS menu. A dialog asks for confirmation to clean up the storage. If you select “Yes”, all data that were created by the operating system or programs will be deleted except global variables defined by the Unified Extensible Firmware Interface Specification. If you select “No”, all data will be kept, but the operating system or programs will not be able to create, modify, or delete data in the storage.</p> <p>If this error happens at a service center, Lenovo authorized service personnel will clean up the non-volatile system UEFI variable storage using the preceding solution.</p>
Fan error. Press ESC to startup with limited performance.	The thermal fan might not work correctly. After the error message is displayed, press ESC within five seconds to start up the computer with limited performance. Otherwise, the computer will shut down immediately. If the fan error still exists when you starts up next time, have your computer serviced.

Beep errors

Lenovo SmartBeep technology enables you to decode beep errors with your smartphone when a black screen occurs with beeps from your computer. To decode the beep error with Lenovo SmartBeep technology:

1. Go to <https://support.lenovo.com/smartbeep> or scan the following QR Code.



2. Download the proper diagnostic app and install it on your smartphone.
3. Run the diagnostic app and place the smartphone near the computer.
4. Press Fn on your computer to emit the beep again. The diagnostic app decodes the beep error and shows possible solutions on the smartphone.

Note: Do not attempt to service a product yourself unless instructed to do so by the Customer Support Center or product documentation. Only use a Lenovo-authorized service provider to repair your product.

Self-help resources

Use the following self-help resources to learn more about the computer and troubleshoot problems.

Resources	How to access?
Troubleshooting and FAQ	<ul style="list-style-type: none">• https://www.lenovo.com/tips• https://forums.lenovo.com
Accessibility information	https://www.lenovo.com/accessibility
Reset or restore Windows	<ul style="list-style-type: none">• Use Lenovo recovery options.<ol style="list-style-type: none">1. Go to https://support.lenovo.com/HowToCreateLenovoRecovery.2. Follow the on-screen instructions.• Use Windows recovery options.<ol style="list-style-type: none">1. Go to https://pcsupport.lenovo.com.2. Detect your computer or manually select your computer model.3. Click Diagnostics → Operating System Diagnostics and then follow the on-screen instructions.
Use the Vantage app to: <ul style="list-style-type: none">• Configure device settings.• Download and install UEFI BIOS, drivers, and firmware updates.• Secure your computer from outside threats.• Diagnose hardware problems.• Check the computer warranty status.• Access <i>User Guide</i> and helpful articles.	Type Vantage in the search box.
Product documentation: <ul style="list-style-type: none">• <i>Safety and Warranty Guide</i>• <i>Setup Guide</i>• This <i>User Guide</i>• <i>Regulatory Notice</i>	Go to https://pcsupport.lenovo.com . Then, follow the on-screen instructions to filter out the documentation you want.
Lenovo Support Web site with the latest support information of the following: <ul style="list-style-type: none">• Drivers and software• Diagnostic solutions• Product and service warranty• Product and parts details• Knowledge base and frequently asked questions	https://pcsupport.lenovo.com
Windows help information	<ul style="list-style-type: none">• Open the Start menu and click Get Help or Tips.• Use Windows Search or the Cortana® personal assistant.• Microsoft support Web site: https://support.microsoft.com

Windows label

Your computer might have a Windows Genuine Microsoft label affixed to its cover depending on the following factors:

- Your geographic location
- Edition of Windows that is preinstalled

Go to <https://www.microsoft.com/en-us/howtotell/Hardware.aspx> for illustrations of the various types of Genuine Microsoft labels.

- In the People's Republic of China, the Genuine Microsoft label is required on all computer models preinstalled with any edition of the Windows operating system.
- In other countries and regions, the Genuine Microsoft label is required only on computer models licensed for Windows Pro editions.

The absence of a Genuine Microsoft label does not indicate that the preinstalled Windows version is not genuine. For details on how to tell whether your preinstalled Windows product is genuine, refer to the information provided by Microsoft at <https://www.microsoft.com/en-us/howtotell/default.aspx>.

There are no external, visual indicators of the Product ID or Windows version for which the computer is licensed. Instead, the Product ID is recorded in the computer firmware. Whenever a Windows product is installed, the installation program checks the computer firmware for a valid, matching Product ID to complete the activation.

In some cases, an earlier Windows version might be preinstalled under the terms of the Windows Pro edition license downgrade rights.

Call Lenovo

If you have tried to correct the problem yourself and still need help, you can call Lenovo Customer Support Center.

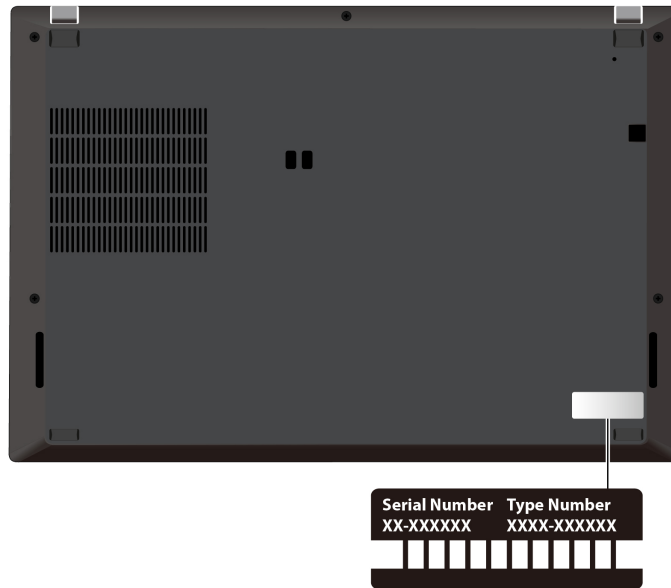
Before you contact Lenovo

Prepare the following before you contact Lenovo:

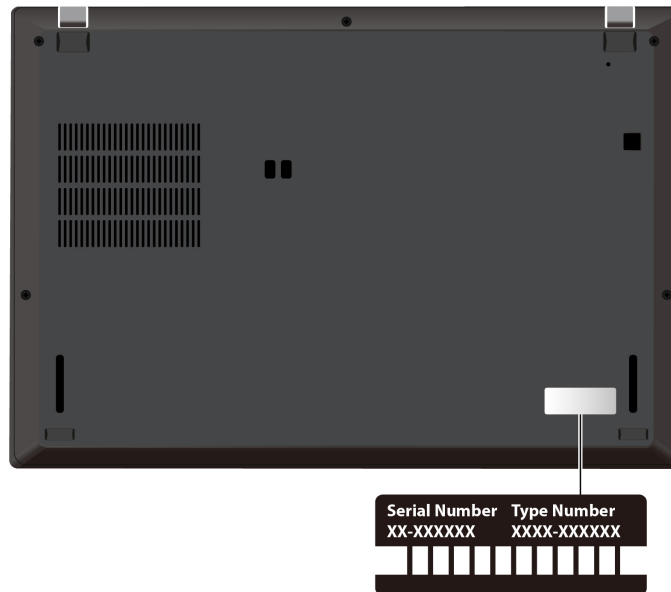
1. Record the problem symptoms and details:
 - What is the problem? Is it continuous or intermittent?
 - Any error message or error code?
 - What operating system are you using? Which version?
 - Which software applications were running at the time of the problem?
 - Can the problem be reproduced? If so, how?
2. Record the system information:
 - Product name
 - Machine type and serial number

The following illustration shows where to find the machine type and serial number of your computer.

ThinkPad T14s Gen 1



ThinkPad X13 Gen 1



Lenovo Customer Support Center

During the warranty period, you can call Lenovo Customer Support Center for help.

Telephone numbers

For a list of the Lenovo Support phone numbers for your country or region, go to <https://pcsupport.lenovo.com/supportphonenumberlist> for the latest phone numbers.

Note: Phone numbers are subject to change without notice. If the number for your country or region is not provided, contact your Lenovo reseller or Lenovo marketing representative.

Services available during the warranty period

- Problem determination - Trained personnel are available to assist you with determining if you have a hardware problem and deciding what action is necessary to fix the problem.
- Lenovo hardware repair - If the problem is determined to be caused by Lenovo hardware under warranty, trained service personnel are available to provide the applicable level of service.
- Engineering change management - Occasionally, there might be changes that are required after a product has been sold. Lenovo or your reseller, if authorized by Lenovo, will make selected Engineering Changes (ECs) that apply to your hardware available.

Services not covered

- Replacement or use of parts not manufactured for or by Lenovo or nonwarranted parts
- Identification of software problem sources
- Configuration of UEFI BIOS as part of an installation or upgrade
- Changes, modifications, or upgrades to device drivers
- Installation and maintenance of network operating systems (NOS)
- Installation and maintenance of programs

For the terms and conditions of the Lenovo Limited Warranty that apply to your Lenovo hardware product, go to:

- https://www.lenovo.com/warranty/llw_02
- <https://pcsupport.lenovo.com/warrantylookup>

Purchase additional services

During and after the warranty period, you can purchase additional services from Lenovo at <https://pcsupport.lenovo.com/warrantyupgrade>.

Service availability and service name might vary by country or region.

Appendix A. Important safety information

Safety notices

This information can help you safely use your computer. Follow and retain all information included with your computer. The information in this document does not alter the terms of your purchase agreement or the Limited Warranty. For more information, see *Safety and Warranty Guide* that comes with your computer.

Customer safety is important. Our products are developed to be safe and effective. However, personal computers are electronic devices. Power cords, power adapters, and other features can create potential safety risks that can result in physical injury or property damage, especially if misused. To reduce these risks, follow the instructions included with your product, observe all warnings on the product and in the operating instructions, and review the information included in this document carefully. By carefully following the information contained in this document and provided with your product, you can help protect yourself from hazards and create a safer computer work environment.

Note: This information includes references to power adapters and batteries. In addition, some products (such as speakers and monitors) ship with external power adapters. If you have such a product, this information applies to your product. In addition, computer products contain a coin-sized internal battery that provides power to the system clock even when the computer is unplugged, so the battery safety information applies to all computer products.

Important information about using your computer

Ensure that you follow the important tips given here to get the most use and enjoyment out of your computer. Failure to do so might lead to discomfort or injury, or cause the computer to fail.

Protect yourself from the heat that your computer generates.



When your computer is turned on or the battery is charging, the base, the palm rest, and some other parts may become hot. The temperature they reach depends on the amount of system activity and the level of charge in the battery.

Extended contact with your body, even through clothing, could cause discomfort or even a skin burn.

- Avoid keeping your hands, your lap, or any other part of your body in contact with a hot section of the computer for any extended time.
- Periodically take your hands away from the keyboard by lifting your hands from the palm rest.

Protect yourself from the heat generated by the ac power adapter.



When the ac power adapter is connected to an electrical outlet and your computer, it generates heat.

Extended contact with your body, even through clothing, may cause a skin burn.

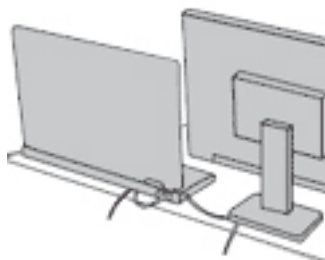
- Do not place the ac power adapter in contact with any part of your body while it is in use.
- Never use it to warm your body.
- Do not wrap the cords around the ac power adapter while in use.

Prevent your computer from getting wet.



To avoid spills and the danger of electrical shock, keep liquids away from your computer.

Protect the cables from being damaged.



Applying strong force to cables may damage or break them.

Route communication lines, or the cables of an ac power adapter, a mouse, a keyboard, a printer, or any other electronic device, so that they cannot be walked on, tripped over, pinched by your computer or other objects, or in any way subject to treatment that could interfere with the operation of your computer.

Protect your computer and data when moving it.



Before moving a computer equipped with a storage drive, do one of the following:

- Turn it off.
- Put it in sleep mode.
- Put it in hibernation mode.

This helps to prevent damage to the computer, and possible loss of data.

Handle your computer gently.



Do not drop, bump, scratch, twist, hit, vibrate, push, or place heavy objects on your computer, display, or external devices.

Carry your computer carefully.



- Use a quality carrying case that provides adequate cushioning and protection.
- Do not pack your computer in a tightly packed suitcase or bag.
- Before putting your computer in a carrying case, make sure that it is off, in sleep mode, or in hibernation mode. Do not put a computer in a carrying case while it is turned on.

Conditions that require immediate action

Products can become damaged due to misuse or neglect. Some product damage is serious enough that the product should not be used again until it has been inspected and, if necessary, repaired by an authorized servicer.

As with any electronic device, pay close attention to the product when it is turned on.

On very rare occasions, you might notice an odor or see a puff of smoke or sparks vent from your product. You might also hear sounds like popping, cracking, or hissing. These might merely mean that an internal electronic component has failed in a safe and controlled manner. Or, they might indicate a potential safety issue. Do not take risks or attempt to diagnose the situation yourself. Contact the Customer Support Center for further guidance. For a list of Service and Support phone numbers, see the following Web site:

<https://support.lenovo.com/supportphonenumberlist>

Frequently inspect your computer and its components for damage, wear, or signs of danger. If you have any question about the condition of a component, do not use the product. Contact the Customer Support Center or the product manufacturer for instructions on how to inspect the product and have it repaired, if necessary.

In the unlikely event that you notice any of the following conditions, or if you have any safety concerns with your product, stop using the product and unplug it from the power source and telecommunication lines until you can speak to the Customer Support Center for further guidance.

- Power cords, plugs, power adapters, extension cords, surge protectors, or power supplies that are cracked, broken, or damaged.
- Signs of overheating, smoke, sparks, or fire.
- Damage to a battery (such as cracks, dents, or creases), discharge from a battery, or a buildup of foreign substances on the battery.
- A cracking, hissing, or popping sound, or strong odor that comes from the product.
- Signs that liquid has been spilled or an object has fallen onto the computer product, the power cord, or power adapter.
- The computer product, power cord, or power adapter has been exposed to water.
- The product has been dropped or damaged in any way.
- The product does not operate normally when you follow the operating instructions.

Note: If you notice these conditions with a product (such as an extension cord) that is not manufactured for or by Lenovo, stop using that product until you can contact the product manufacturer for further instructions, or until you get a suitable replacement.

Service

Do not attempt to service a product yourself unless instructed to do so by the Customer Support Center or your documentation. Only use a Service Provider who is approved to repair your particular product.

Note: Replacement parts approved for customer installation are referred to as Customer Replaceable Units, or CRUs. Lenovo provides documentation with instructions when it is appropriate for customers to replace CRUs. You must closely follow all instructions when replacing parts. The Off state of a power indicator does not necessarily mean that voltage levels inside a product are zero. Before you remove the covers from a product equipped with a power cord, always ensure that the power is turned off and that the product is unplugged from any power source. If you have any questions or concerns, contact the Customer Support Center.

Although there are no moving parts in your computer after the power cord has been disconnected, the following warnings are required for your safety.



Keep fingers and other parts of your body away from hazardous, moving parts. If you suffer an injury, seek medical care immediately.



Do not touch hot surface of hot components inside the computer. During operation, some components become hot enough to burn the skin. Before you open the computer cover, turn off the computer, disconnect power, and wait approximately 10 minutes for the components to cool.



After replacing a CRU, reinstall all protective covers, including the computer cover, before connecting power and operating the computer. This action is important to help prevent unexpected electrical shock and help ensure the containment of an unexpected fire that could happen under extremely rare conditions.



When replacing CRUs, be cautious of sharp edges or corners that might cause injury. If you suffer an injury, seek medical care immediately.

Power cords and power adapters



Use only the power cords and power adapters supplied by the product manufacturer.

The power cords shall be safety approved. For Germany, it shall be H03VV-F, 3G, 0.75 mm², or better. For other countries, the suitable types shall be used accordingly.

Never wrap a power cord around a power adapter or other object. Doing so can stress the cord in ways that can cause the cord to fray, crack, or crimp. This can present a safety hazard.

Always route power cords so that they will not be walked on, tripped over, or pinched by objects.

Protect power cords and power adapters from liquids. For instance, do not leave your power cord or power adapter near sinks, tubs, toilets, or on floors that are cleaned with liquid cleansers. Liquids can cause a short circuit, particularly if the power cord or power adapter has been stressed by misuse. Liquids also can cause gradual corrosion of power cord terminals and/or the connector terminals on a power adapter, which can eventually result in overheating.

Ensure that all power cord connectors are securely and completely plugged into receptacles.

Do not use any power adapter that shows corrosion at the ac input pins or shows signs of overheating (such as deformed plastic) at the ac input pins or anywhere on the power adapter.

Do not use any power cords where the electrical contacts on either end show signs of corrosion or overheating or where the power cord appears to have been damaged in any way.

To prevent possible overheating, do not cover the power adapter with clothing or other objects when the power adapter is plugged into an electrical outlet.

Extension cords and related devices

Ensure that extension cords, surge protectors, uninterruptible power supplies, and power strips that you use are rated to handle the electrical requirements of the product. Never overload these devices. If power strips are used, the load should not exceed the power strip input rating. Consult an electrician for more information if you have questions about power loads, power requirements, and input ratings.

Plugs and outlets



If a receptacle (power outlet) that you intend to use with your computer equipment appears to be damaged or corroded, do not use the outlet until it is replaced by a qualified electrician.

Do not bend or modify the plug. If the plug is damaged, contact the manufacturer to obtain a replacement.

Do not share an electrical outlet with other home or commercial appliances that draw large amounts of electricity; otherwise, unstable voltage might damage your computer, data, or attached devices.

Some products are equipped with a three-pronged plug. This plug fits only into a grounded electrical outlet. This is a safety feature. Do not defeat this safety feature by trying to insert it into a non-grounded outlet. If you cannot insert the plug into the outlet, contact an electrician for an approved outlet adapter or to replace the outlet with one that enables this safety feature. Never overload an electrical outlet. The overall system load should not exceed 80 percent of the branch circuit rating. Consult an electrician for more information if you have questions about power loads and branch circuit ratings.

Be sure that the power outlet you are using is properly wired, easily accessible, and located close to the equipment. Do not fully extend power cords in a way that will stress the cords.

Be sure that the power outlet provides the correct voltage and current for the product you are installing.

Carefully connect and disconnect the equipment from the electrical outlet.

Power supply statement

Never remove the cover on a power supply or any part that has the following label attached.



Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.

External devices

CAUTION:

Do not connect or disconnect any external device cables other than Universal Serial Bus (USB) and 1394 cables while the computer power is on; otherwise, you might damage your computer. To avoid possible damage to attached devices, wait at least five seconds after the computer is shut down to disconnect external devices.

General battery notice



Batteries supplied by Lenovo for use with your product have been tested for compatibility and should only be replaced with approved parts. A battery other than the one specified by Lenovo, or a disassembled or modified battery is not covered by the warranty.

Battery abuse or mishandling can cause overheating, liquid leakage, or an explosion. To avoid possible injury:

- Do not open, disassemble, or service any battery.
- Do not crush or puncture the battery.
- Do not short-circuit the battery, or expose it to water or other liquids.
- Keep the battery away from children.
- Keep the battery away from fire.

Stop using the battery if it is damaged, or if you notice any discharge or the buildup of foreign materials on the battery leads.

Store the rechargeable batteries or products containing the rechargeable batteries at room temperature, charged to approximately 30 to 50% of capacity. We recommend that the batteries be charged about once per year to prevent overdischarge.

Do not put the battery in trash that is disposed of in landfills. When disposing of the battery, comply with local ordinances or regulations.

Notice for built-in rechargeable battery



Do not attempt to remove or replace the built-in rechargeable battery. Replacement of the battery must be done by a Lenovo-authorized repair facility or technician.

Only recharge the battery strictly according to instructions included in the product documentation.

The Lenovo-authorized repair facilities or technicians recycle Lenovo batteries according to local laws and regulations.

Lithium coin-cell battery notice



Danger of explosion if battery is incorrectly replaced.

If the coin-cell battery is not a CRU, do not attempt to replace the coin-cell battery. Replacement of the battery must be done by a Lenovo-authorized repair facility or technician.

The Lenovo-authorized repair facilities or technicians recycle Lenovo batteries according to local laws and regulations.



When replacing the lithium coin-cell battery, use only the same type or equivalent type that is recommended by the manufacturer. The battery contains lithium and can explode if not properly used, handled, or disposed of. Swallowing the lithium coin-cell battery will cause choking or severe internal burns in just two hours and might even result in death.

Keep batteries away from children. If the lithium coin-cell battery is swallowed or placed inside any part of the body, seek medical care immediately.

Do not:

- Throw or immerse into water
- Heat to more than 100 °C (212°F)
- Repair or disassemble
- Leave in an extremely low air pressure environment
- Leave in an extremely high-temperature environment
- Crush, puncture, cut, or incinerate

Dispose of the battery as required by local ordinances or regulations.

The following statement applies to users in the state of California, U.S.A.

California Perchlorate Information:

Products containing manganese dioxide lithium coin-cell batteries may contain perchlorate.

Perchlorate Material - special handling may apply, see <https://www.dtsc.ca.gov/hazardouswaste/perchlorate/>.

Heat and product ventilation



Computers, ac power adapters, and many accessories can generate heat when turned on and when batteries are charging. Notebook computers can generate a significant amount of heat due to their compact size. Always follow these basic precautions:

- When your computer is turned on or the battery is charging, the base, the palm rest, and some other parts may become hot. Avoid keeping your hands, your lap, or any other part of your body in contact with a hot section of the computer for any extended length of time. When you use the keyboard, avoid keeping your palms on the palm rest for a prolonged period of time. Your computer generates some heat during normal operation. The amount of heat depends on the amount of system activity and the battery charge level. Extended contact with your body, even through clothing, could cause discomfort or even a skin burn. Periodically take breaks from using the keyboard by lifting your hands from the palm rest; and be careful not to use the keyboard for any extended length of time.
- Do not operate your computer or charge the battery near flammable materials or in explosive environments.
- Ventilation slots, fans and/or heat sinks are provided with the product for safety, comfort, and reliable operation. These features might inadvertently become blocked by placing the product on a bed, sofa, carpet, or other flexible surface. Never block, cover, or disable these features.
- When the ac power adapter is connected to an electrical outlet and your computer, it generates heat. Do not place the adapter in contact with any part of your body while using it. Never use the ac power adapter to warm your body. Extended contact with your body, even through clothing, may cause a skin burn.

For your safety, always follow these basic precautions with your computer:

- Keep the cover closed whenever the computer is plugged in.
- Regularly inspect the outside of the computer for dust accumulation.
- Remove dust from vents and any perforations in the bezel. More frequent cleanings might be required for computers in dusty or high-traffic areas.
- Do not restrict or block any ventilation openings.
- Do not operate your computer inside furniture, as this might increase the risk of overheating.
- Airflow temperatures into the computer should not exceed 35°C (95°F).

Electrical current safety information



Electric current from power, telephone, and communication cables is hazardous.

To avoid a shock hazard:

- Do not use your computer during a lightning storm.
- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.
- Connect all power cords to a properly wired and grounded electrical outlet.
- Connect properly wired outlets to any equipment that will be attached to this product.
- Whenever possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.
- Disconnect the attached power cords, battery, and all the cables before you open the device covers, unless instructed otherwise in the installation and configuration procedures.
- Do not use your computer until all internal parts enclosures are fastened into place. Never use the computer when internal parts and circuits are exposed.



Connect and disconnect cables as described in the following procedures when installing, moving, or opening covers on this product or attached devices.

To connect:

1. Turn everything OFF.
2. First, attach all cables to devices.
3. Attach signal cables to connectors.
4. Attach power cords to outlets.
5. Turn devices ON.

To disconnect:

1. Turn everything OFF.
2. First, remove power cords from outlets.
3. Remove signal cables from connectors.
4. Remove all cables from devices.

The power cord must be disconnected from the wall outlet or receptacle before installing all other electrical cables connected to the computer.

The power cord may be reconnected to the wall outlet or receptacle only after all other electrical cables have been connected to the computer.



During electrical storms, do not perform any replacement and do not connect the telephone cable to or disconnect it from the telephone outlet on the wall.

Liquid crystal display (LCD) notice

CAUTION:

The liquid crystal display (LCD) is made of glass, and rough handling or dropping the computer can cause the LCD to break. If the LCD breaks and the internal fluid gets into your eyes or on your hands, immediately wash the affected areas with water for at least 15 minutes; if any symptoms are present after washing, get medical care.

Note: For products with mercury-containing fluorescent lamps (for example, non-LED), the fluorescent lamp in the liquid crystal display (LCD) contains mercury; dispose of according to local, state, or federal laws.

Use earphones, headphones, or a headset



Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphone and headphone output voltage and the sound pressure level. Therefore, to protect your hearing, adjust the equalizer to an appropriate level.

Excessive use of headphones or earphones for a long period of time at high volume can be dangerous if the output of the headphone or earphone connectors do not comply with specifications of EN 50332-2. The headphone output connector of your computer complies with EN 50332-2 Sub clause 7. This specification limits the computer's maximum wide band true RMS output voltage to 150 mV. To help protect against hearing loss, ensure that the headphones or earphones you use also comply with EN 50332-2 (Clause 7 limits) for a wide band characteristic voltage of 75 mV. Using headphones that do not comply with EN 50332-2 can be dangerous due to excessive sound pressure levels.

If your Lenovo computer came with headphones or earphones in the packaging, as a set, the combination of the headphones or earphones and the computer already complies with the specifications of EN 50332-1. If different headphones or earphones are used, ensure that they comply with EN 50332-1 (Clause 6.5 Limitation Values). Using headphones that do not comply with EN 50332-1 can be dangerous due to excessive sound pressure levels.

Choking hazard notice



CHOKING HAZARD – Product contains small parts.

Keep away from children under three years.

Plastic bag notice



<p>Plastic bags can be dangerous. Keep plastic bags away from babies and children to avoid danger of suffocation.</p>
--

Glass parts notice

CAUTION:

Some parts of your product may be made of glass. This glass could break if the product is dropped on a hard surface or receives a substantial impact. If glass breaks, do not touch or attempt to remove it. Stop using your product until the glass is replaced by trained service personnel.

Static electricity prevention

Static electricity, although harmless to you, can seriously damage computer components and options. Improper handling of static-sensitive parts can damage the part. When you unpack an option or CRU, do not open the static-protective package containing the part until the instructions direct you to install it.

When you handle options or CRUs, or perform any work inside the computer, take the following precautions to avoid static-electricity damage:

- Limit your movement. Movement can cause static electricity to build up around you.
- Always handle components carefully. Handle adapters, memory modules, and other circuit boards by the edges. Never touch exposed circuitry.
- Prevent others from touching components.
- When you install a static-sensitive option or CRU, touch the static-protective packaging containing the part to a metal expansion-slot cover or other unpainted metal surface on the computer for at least two seconds. This reduces static electricity in the package and your body.
- When possible, remove the static-sensitive part from the static-protective packaging and install the part without setting it down. When this is not possible, place the static-protective packaging on a smooth, level surface and place the part on it.
- Do not place the part on the computer cover or other metal surface.

Operating environment

Maximum altitude (without pressurization)

3048 m (10 000 ft)

Temperature

- Operating: 5°C to 35°C (41°F to 95°F)
- Storage and transportation in original shipping packaging: -20°C to 60°C (-4°F to 140°F)
- Storage without packaging: 5°C to 43°C (41°F to 109°F)

Note: When you charge the battery, its temperature must be no lower than 10°C (50°F).

Relative humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage and transportation: 5% to 95% at wet-bulb temperature 27°C (81°F)

Cleaning and maintenance

With appropriate care and maintenance, your computer will serve you reliably. The following topics offer information to help you keep your computer working with best performance.

Basic maintenance tips

Here are some basic points about keeping your computer functioning properly:

- If possible, place your computer in a well-ventilated and dry area without direct exposure to sunshine.
- Store packing materials safely out of the reach of children to prevent the risk of suffocation from plastic bags.
- Keep your computer away from magnets, activated cellular phones, electrical appliances, or speakers (more than 13 cm or 5 inches).
- Avoid subjecting your computer to extreme temperatures (below 5°C/41°F or above 35°C/95°F).
- Avoid placing any objects (including paper) between the display and the keyboard or the palm rest.
- Computer display might be designed to be opened and used at a certain angle. Do not open the display with force. Otherwise, the computer hinge might get damaged.
- Do not turn your computer over when the ac power adapter is plugged in, otherwise, it could break the adapter plug.
- Before moving your computer, be sure to remove any media, turn off attached devices, and disconnect cords and cables.
- When picking up your open computer, hold it by the bottom. Do not pick up or hold your computer by the display.
- Only an authorized Lenovo repair technician should disassemble and repair your computer.
- Do not modify or tape the latches to keep the display open or closed.
- Avoid directly exposing your computer and peripherals to the air from an appliance that can produce negative ions. Wherever possible, ground your computer to facilitate safe electrostatic discharge.

Clean your computer

It is a good practice to clean your computer periodically to protect the surfaces and ensure trouble-free operation.

Clean the computer cover: Wipe it with a lint-free cloth dampened in mild soap and water. Avoid applying liquids directly to the cover.

Clean the keyboard: Wipe the keys one by one with a lint-free cloth dampened in mild soap and water. If you wipe several keys at a time, the cloth might hook onto an adjacent key and possibly damage it. Avoid spraying cleaner directly onto the keyboard. To remove any crumbs or dust from beneath the keys, you can use a camera blower with a brush or use cool air from a hair dryer.

Clean the computer screen: Scratches, oil, dust, chemicals, and ultraviolet light can affect the performance of your computer screen. Use a dry, soft lint-free cloth to wipe the screen gently. If you see a scratchlike mark on your screen, it might be a stain. Wipe or dust the stain gently with a soft, dry cloth. If the stain remains, moisten a soft, lint-free cloth with water or eyeglass cleaner, but do not apply liquids directly to your computer screen. Ensure that the computer screen is dry before closing it.

Appendix B. Accessibility and ergonomic information

This chapter provides information about accessibility and ergonomics.

Accessibility information

Lenovo is committed to providing users who have hearing, vision, and mobility limitations with greater access to information and technology. You can get the most up-to-date accessibility information from <https://www.lenovo.com/accessibility>.

If you need additional support with the accessibility features, go to <https://support.lenovo.com/supportphonenumber> to find the support phone numbers for your country or region.

Ergonomic information

Good ergonomic practice is important to get the most from your personal computer and to avoid discomfort. Arrange your workplace and the equipment you use to suit your individual needs and the kind of work that you perform. In addition, use healthy work habits to maximize your performance and comfort when using your computer.

Working in the virtual office might mean adapting to frequent changes in your environment. Adapting to the surrounding light sources, active seating, and the placement of your computer hardware, can help you improve your performance and achieve greater comfort.

This example shows someone in a conventional setting. Even when not in such a setting, you can follow many of these tips. Develop good habits, and they will serve you well.



General posture: Make minor modifications in your working posture to deter the onset of discomfort caused by long periods of working in the same position. Frequent short breaks (at least one 10-minute break every hour) from your work also help to prevent minor discomfort associated with your working posture. During these breaks, stand up, move about and stretch your arms, legs, back, neck and shoulders, do eye exercises to reduce muscle and eye fatigue.

Display: Position the display to maintain a comfortable viewing distance of 510 mm to 760 mm (20 inches to 30 inches). Avoid glare or reflections on the display from overhead lighting or outside sources of light. Keep the display screen clean and set the brightness to levels that enable you to see the screen clearly. Press the brightness control keys to adjust display brightness.

Head position: Keep your head and neck in a comfortable and neutral (vertical, or upright) position. To reduce your risk of tiring your eyes by constantly focusing on your screen, look away from your computer at least every 20 minutes and gaze at a distant object (at least 20 feet away) for at least 20 seconds.

Chair: Use a chair that gives you good back support and seat height adjustment. Use chair adjustments to best suit your comfort posture.

Arm and hand position: If available, use chair arm rests or an area on your working surface to provide weight support for your arms. Keep your forearms, wrists, and hands in a relaxed and neutral (horizontal) position. Type with a soft touch without pounding the keys.

Leg position: Keep your thighs parallel to the floor and your feet flat on the floor or on a footrest.

What if you are traveling?

It might not be possible to observe the best ergonomic practices when you are using your computer while on the move or in a casual setting. Regardless of the setting, try to observe as many of the tips as possible. Sitting properly and using adequate lighting, for example, helps you maintain desirable levels of comfort and performance. If your work area is not in an office setting, ensure to take special note of employing active sitting and taking work breaks. Many product solutions are available to help you modify and expand your computer to best suit your needs. You can find some of these options at <https://www.lenovo.com/accessories>. Explore your options for docking solutions and external products that provide the adjustability and features that you want.

Questions about vision?

The visual display screens of notebook computers are designed to meet the highest standards. These visual display screens provide you with clear, crisp images and large, bright displays that are easy to see, yet easy on the eyes. Any concentrated and sustained visual activity can be tiring. If you have questions on eye fatigue or visual discomfort, consult a vision-care specialist for advice.

Low Blue Light (for selected models)

Computer display emits blue light. Blue light, also known as high-energy visible (HEV) light, has the shortest wavelength of visible light (380nm to 500nm), and therefore produces the highest amount of energy. Prolonged exposure to a blue light may cause temporary visual fatigue. This computer is shipped from the factory in low blue light mode, this can help to improve visual fatigue.

Night light (Software solution)

Blue light is the high-energy visible light in the light spectrum. Excessive exposure to blue light might damage your vision. Night light is a feature that reduces the blue light emitted by computer displays. When the night light is on, your computer display shows warmer colors that help you reduce eye strain.

To turn on or turn off the night light, type Night light in the Windows search box and then press Enter. Then, follow the on-screen instructions.

Note: Selected Lenovo computers are low blue-light certified. These computers are tested with night light turned on and color temperature set to the default value of 48 or greater.

Appendix C. Supplemental information about the Linux operating system

In limited countries or regions, Lenovo offers customers an option to order computers with the preinstalled Linux® operating system.

If the Linux operating system is available on your computer, read the following information before you use the computer. Ignore any information related to Windows-based programs, utilities, and Lenovo preinstalled applications in this documentation.

Access the Lenovo Limited Warranty

This product is covered by the terms of the Lenovo Limited Warranty (LLW), version L505-0010-02 08/2011. You can view the LLW in a number of languages from the following Web site. Read the Lenovo Limited Warranty at:

https://www.lenovo.com/warranty/llw_02

The LLW also is preinstalled on the computer. To access the LLW:

- for Ubuntu®, go to `/usr/share/doc/lenovo-doc`
- for Fedora®, go to `/opt/Lenovo`

If you cannot view the LLW either from the Web site or from your computer, contact your local Lenovo office or reseller to obtain a printed version of the LLW.

Access Linux distributions

Linux is an open-source operating system, and popular Linux distributions include Ubuntu and Fedora.

To learn more about the Ubuntu operating system, go to:

<https://www.ubuntu.com>

To learn more about the Fedora operating system, go to:

<https://getfedora.org/>

Get support information

If you need help, service, technical assistance, or more information about the Linux operating system or other applications, contact the provider of the Linux operating system or the provider of the application. If you need the service and support for hardware components shipped with your computer, contact Lenovo. For more information about how to contact Lenovo, refer to the *User Guide* and *Safety and Warranty Guide*.

To access the latest *User Guide* and *Safety and Warranty Guide*, go to:

<https://pcsupport.lenovo.com>

Appendix D. Compliance and TCO Certified information

This chapter provides regulatory, environmental, RoHS, and ENERGY STAR information about Lenovo products.

Radio frequency compliance statements

Computer models equipped with wireless communications comply with the radio frequency and safety standards of any country or region in which it has been approved for wireless use.

Besides this document, ensure that you read the *Regulatory Notice* for your country or region before using the wireless devices contained in your computer.

Wireless-related information

This topic provides wireless-related information about Lenovo products.

Wireless interoperability

Wireless-LAN card is designed to be interoperable with any wireless-LAN product that is based on Direct Sequence Spread Spectrum (DSSS), Complementary Code Keying (CCK), and/or Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and/or Orthogonal Frequency Division Multiplexing Access (OFDMA) and is compliant to:

- The 802.11b/g Standard, 802.11a/b/g, 802.11n, 802.11ac, or 802.11ax on wireless-LANs, as defined and approved by the Institute of Electrical and Electronics Engineers.
- The Wireless Fidelity (Wi-Fi®) certification as defined by the Wi-Fi Alliance®.

Usage environment and your health

This computer contains integrated wireless cards that operate within the guidelines identified by radio frequency (RF) safety standards and recommendations; therefore, Lenovo believes that this product is safe for use by consumers. These standards and recommendations reflect the consensus of the worldwide scientific community, and result from deliberations of panels and committees of scientists, who continually review and interpret the extensive research literature.

In some situations or environments, the use of wireless devices might be restricted by the proprietor of a building or responsible representatives of an organization. For example, these situations and areas might include the following:

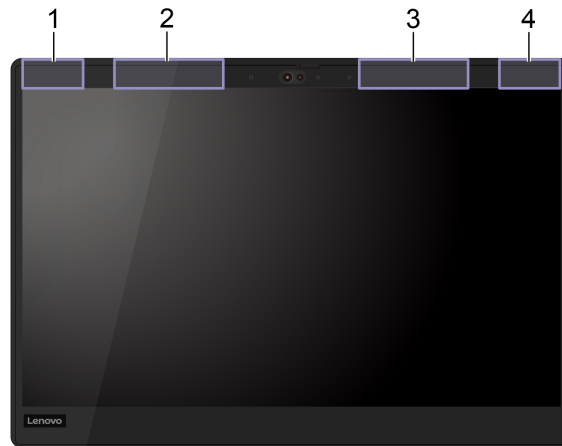
- On board of airplanes, in hospitals or near petrol stations, blasting areas (with electro-explosive devices), medical implants or body-worn electronic medical devices, such as pace makers.
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific area (such as an airport or hospital), you are encouraged to ask for authorization to use a wireless device prior to turning on the computer.

Locate the UltraConnect wireless antennas

Your computer has an UltraConnect™ wireless antenna system. You can enable wireless communication wherever you are.

The following illustration shows the antenna locations on your computer:



- ❶ Wireless LAN antenna (main)
- ❷ Wireless WAN antenna (main, for selected models)
- ❸ Wireless WAN antenna (auxiliary, for selected models)
- ❹ Wireless LAN antenna (auxiliary)

Locate wireless regulatory notices

For more information about the wireless regulatory notices, refer to the *Regulatory Notice* at <https://support.lenovo.com>.

European Union (EU) / United Kingdom (UK) — Radio Equipment Compliance



EU Contact: Lenovo (Slovakia), Landererova 12, 811 09 Bratislava, Slovakia



UK contact: Lenovo, Redwood, Crockford Lane, Basingstoke, RG24 8WQ, UK.

This product is in conformity with all the requirements and essential norms that apply to EU Council Radio Equipment Directive 2014/53/EU on the approximation of the laws of the Member States, as well as the UK Radio Equipment Regulations SI 2017 No. 1206, relating to radio equipment.

The full text of the system EU declaration of conformity is available at:
<https://www.lenovo.com/us/en/compliance/eu-doc>

The full text of the system UK declaration of conformity is available at:
<https://www.lenovo.com/us/en/compliance/uk-doc>

Lenovo cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the installation of option cards from other manufacturers. This product has been tested and found to comply with the limits for Class B equipment according to European and UK compliance standards. The limits for Class B equipment were derived for

typical residential environments to provide reasonable protection against interference with certified communication devices.

Brazil

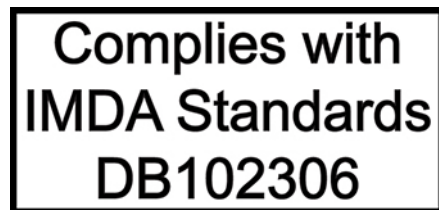
Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

This equipment is not protected against harmful interference and may not cause interference with duly authorized systems.

Mexico

Advertencia: En Mexico la operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Singapore



Korea radio frequency compliance statement

무선설비 전파 혼신 (사용주파수 2400 ~ 2483.5 , 5725 ~ 5825 무선제품해당)

해당 무선설비가 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없음

SAR 정보

본 장치는 전파 노출에 대한 가이드라인을 충족합니다.

본 장치는 무선 송수신기입니다. 본 장치는 국제 가이드라인으로 권장되는 전파 노출에 대한 제한을 초과하지 않도록 설계되었습니다. 장치 액세서리 및 최신 부품을 사용할 경우 SAR 값이 달라질 수 있습니다. SAR 값은 국가 보고 및 테스트 요구 사항과 네트워크 대역에 따라 다를 수 있습니다. 본 장치는 사람의 신체에서 20mm 이상의 거리에서 사용할 수 있습니다.

Environmental information of countries and regions

This section provides environmental, recycling, and RoHS information about Lenovo products.

Recycling and environmental information

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products. For information about recycling Lenovo products, go to:

<https://www.lenovo.com/recycling>

The latest environmental information about our products is available at:

Important battery recycling and WEEE information

Take back and recycling information for WEEE and batteries/accumulators in the European Union and the United Kingdom



The crossed-out wheeled bin marking applies only to countries with WEEE and batteries waste regulations including the European Union (EU), and United Kingdom (UK).

Appliances and batteries/accumulators are labeled in accordance with local regulations concerning waste electrical and electronic equipment (WEEE) and waste batteries and waste accumulators. These regulations determine the framework for the return and recycling of used appliances and used batteries/accumulators as applicable within each geography. This label is applied to various products to indicate that the product is not to be thrown away, but rather put in the established collection systems for reclaiming these end of life products.

The label on the battery may also include a chemical symbol for the metal concerned in the battery (Pb for lead, Hg for mercury, and Cd for cadmium).

Users of electrical and electronic equipment (EEE) and users of batteries/accumulators with the crossed-out wheeled bin marking must not dispose of end of life products as unsorted municipal waste, but use the collection framework available to them for the return, recycle, and recovery of WEEE and waste batteries/accumulators and to minimize any potential effects of EEE and batteries on the environment and human health due to the presence of hazardous substances.

Lenovo electrical and electronic equipment (EEE) may contain parts and components, which at end-of-life might qualify as hazardous waste.

EEE and waste electrical and electronic equipment (WEEE) can be delivered free of charge to the place of sale or any distributor that sells electrical and electronic equipment of the same nature and function as the used EEE or WEEE.

Before placing electrical and electronic equipment (EEE) in the waste collection stream or in waste collection facilities, the end user of equipment containing batteries and/or accumulators must remove those batteries and accumulators for separate collection.

Dispose of lithium batteries and battery packs from Lenovo products:

A coin-cell type lithium battery might be installed inside your Lenovo product. You can find details about the battery in the product documentation. If the battery needs to be replaced, contact your place of purchase or contact Lenovo for service. If you need to dispose of a lithium battery, insulate it with vinyl tape, contact your place of purchase or a waste-disposal operator, and follow their instructions.

Your Lenovo device might contain a lithium-ion battery pack or a nickel metal hydride battery pack. You can find details on the battery pack in the product documentation. If you need to dispose of a battery pack, insulate it with vinyl tape, contact Lenovo sales, service, or your place of purchase, or a waste-disposal operator, and follow their instructions. You also can refer to the instructions provided in the user guide for your product.

For proper collection and treatment, go to:

<https://www.lenovo.com/environment>

For additional WEEE information, go to:

<https://www.lenovo.com/recycling>

WEEE information for Hungary

Lenovo, as a producer, bears the cost incurred in connection with the fulfillment of Lenovo's obligations under Hungary Law No. 197/2014 (VIII.1.) subsections (1)-(5) of section 12.

Japan recycling statements

Collect and recycle a disused Lenovo computer or monitor

If you are a company employee and need to dispose of a Lenovo computer or monitor that is the property of the company, you must do so in accordance with the Law for Promotion of Effective Utilization of Resources. Computers and monitors are categorized as industrial waste and should be properly disposed of by an industrial waste disposal contractor certified by a local government. In accordance with the Law for Promotion of Effective Utilization of Resources, Lenovo Japan provides, through its PC Collecting and Recycling Services, for the collecting, reuse, and recycling of disused computers and monitors. For details, visit the Lenovo Web site at:

<https://www.lenovo.com/recycling/japan>

Pursuant to the Law for Promotion of Effective Utilization of Resources, the collecting and recycling of home-used computers and monitors by the manufacturer was begun on October 1, 2003. This service is provided free of charge for home-used computers sold after October 1, 2003. For details, go to:

<https://www.lenovo.com/recycling/japan>

Dispose of Lenovo computer components

Some Lenovo computer products sold in Japan may have components that contain heavy metals or other environmental sensitive substances. To properly dispose of disused components, such as a printed circuit board or drive, use the methods described above for collecting and recycling a disused computer or monitor.

Dispose of disused lithium batteries from Lenovo computers

A button-shaped lithium battery is installed inside your Lenovo computer to provide power to the computer clock while the computer is off or disconnected from the main power source. If you need to replace it with a new one, contact your place of purchase or contact Lenovo for service. If you need to dispose of a disused lithium battery, insulate it with vinyl tape, contact your place of purchase or an industrial-waste-disposal operator, and follow their instructions.

Disposal of a lithium battery must comply with local ordinances and regulations.

Dispose of a disused battery from Lenovo notebook computers

Your Lenovo notebook computer has a lithium ion battery or a nickel metal hydride battery. If you are a company employee who uses a Lenovo notebook computer and need to dispose of a battery, contact the proper person in Lenovo sales, service, or marketing, and follow that person's instructions. You also can refer to the instructions at:

<https://www.lenovo.com/jp/ja/environment/recycle/battery/>

If you use a Lenovo notebook computer at home and need to dispose of a battery, you must comply with local ordinances and regulations. You also can refer to the instructions at:

<https://www.lenovo.com/jp/ja/environment/recycle/battery/>

Recycling information for Brazil

Declarações de Reciclagem no Brasil

Descarte de um Produto Lenovo Fora de Uso

Equipamentos elétricos e eletrônicos não devem ser descartados em lixo comum, mas enviados à pontos de coleta, autorizados pelo fabricante do produto para que sejam encaminhados e processados por empresas especializadas no manuseio de resíduos industriais, devidamente certificadas pelos órgãos ambientais, de acordo com a legislação local.

A Lenovo possui um canal específico para auxiliá-lo no descarte desses produtos. Caso você possua um produto Lenovo em situação de descarte, ligue para o nosso SAC ou encaminhe um e-mail para: reciclar@lenovo.com, informando o modelo, número de série e cidade, a fim de enviarmos as instruções para o correto descarte do seu produto Lenovo.

Recycling information for mainland China

《废弃电器电子产品回收处理管理条例》提示性说明

联想鼓励拥有联想品牌产品的用户当不再需要此类产品时，遵守国家废弃电器电子产品回收处理相关法律法规，将其交给当地具有国家认可的回收处理资质的厂商进行回收处理。更多回收服务信息，请点击进入<http://support.lenovo.com.cn/activity/551.htm>

Battery recycling information for Taiwan



廢電池請回收

Battery recycling information for the United States and Canada



US & Canada Only

Restriction of Hazardous Substances (RoHS) Directive of countries and regions

The latest environmental information about Lenovo products is available at:

<https://www.lenovo.com/ecodeclaration>

European Union (EU) / United Kingdom (UK) RoHS

This Lenovo product, with included parts (cables, cords, and so on) meets the requirements of EU Directive 2011/65/EU (as amended by Directive 2015/863/EU) and UK SI 2012 No. 3032 on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("RoHS recast" or "RoHS 2").

For more information about Lenovo worldwide compliance on RoHS, go to:

<https://www.lenovo.com/rohs-communication>

Turkish WEEE / RoHS

Turkish WEEE/RoHS

Türkiye AEEE yönetmeliğine Uygunluk Beyanı

Bu Lenovo ürünü, T.C. Çevre ve Şehircilik Bakanlığı'nın „Atık Elektrikli ve Elektronik Eşyaların Kontrolü Yönetmeliğine (AEEE)" uygundur.

AEEE yönetmeligne Uygundur.

Ukraine RoHS

Цим підтверджуємо, що продукція Леново відповідає вимогам нормативних актів України, які обмежують вміст небезпечних речовин

India RoHS

RoHS compliant as per E-Waste (Management) Rules.

Mainland China RoHS

The information in the following table is applicable to products manufactured on or after January 1, 2015 for sale in the People's Republic of China.

产品中有害物质的名称及含量

部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板组件	X	0	0	0	0	0
硬盘	X	0	0	0	0	0
光驱	X	0	0	0	0	0
LCD 面板 (LED 背光源)	X	0	0	0	0	0
键盘	X	0	0	0	0	0
内存	X	0	0	0	0	0
电池	X	0	0	0	0	0
电源适配器	X	0	0	0	0	0
底壳、顶盖和扬声器	X	0	0	0	0	0

注：

本表依据SJ/T 11364的规定编制。

0：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572标准规定的限量要求以下。

X：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572标准规定的限量要求。标有“X”的部件，皆因全球技术发展水平限制而无法实现有害物质的替代。印刷电路板组件包括电路板（PCB）及其组件、集成电路（IC）和连接器。某些型号的产品可能不包含上表中的某些部件，请以实际购买机型为准。

图示：



在中华人民共和国境内销售的电子信息产品上将印有“环保使用期限”（EPuP）符号。圆圈中的数字代表产品的正常环保使用期限。

Supplier's declaration of conformity label for mainland China RoHS

依照《电器电子产品有害物质限制使用合格评定制度实施安排》，《绿色产品标识使用管理办法》以及市场监管总局关于明确电器电子产品有害物质限制使用合格评定制度“供方符合性标志”的公告中对于合格评定标识的相关要求，联想公司 针对纳入《电器电子产品有害物质限制使用达标管理目录》内的产品，使用自我声明的合格评定方式，并使用如下合格评定标识：



Taiwan RoHS

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁶⁺)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
印刷電路板組件	-	○	○	○	○	○
儲存裝置	-	○	○	○	○	○
顯示螢幕	-	○	○	○	○	○
鍵盤	-	○	○	○	○	○
記憶體	-	○	○	○	○	○
電源供應器	-	○	○	○	○	○
外殼	-	○	○	○	○	○
電源線組	-	○	○	○	○	○
機械組件	-	○	○	○	○	○
配件	-	○	○	○	○	○
備考 1. “超出 0.1 wt %” 及 “超出 0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. 備考 2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考 3. “—” 係指該項限用物質為排除項目。 Note 3: The “—” indicates that the restricted substance corresponds to the exemption.						

單元說明

單元	說明
儲存裝置	泛指硬碟機、固態硬碟等
機械組件	泛指光碟機、風扇、麥克風、攝影機、喇叭等
配件	泛指外接式光碟機 (選配)、轉接線 (選配)、觸控筆 (選配) 等

Electromagnetic emission notices

Federal Communications Commission (FCC) Supplier's Declaration of Conformity

Notes:

- The statements below regarding FCC are only valid for products that are shipping to the United States.
- Refer to the product label information to identify the specific model name and number of your product.

The following information refers to ThinkPad T14s Gen 1 and ThinkPad X13 Gen 1.

Product name	Machine types
ThinkPad T14s Gen 1	20T0, 20T1, 20UH and 20UJ
ThinkPad X13 Gen 1	20T2, 20T3, 20UF and 20UG

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 an authorized dealer or service representative for help.

Lenovo is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

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.

Responsible Party:
 Lenovo (United States) Incorporated
 7001 Development Drive
 Morrisville, NC 27560
 Email: FCC@lenovo.com



FCC ID and IC Certification information

You can find the FCC and IC Certification information through one of the following methods:

- Through an electronic-label screen (E-label screen) preinstalled on your computer. To view the E-label screen, see "Regulatory labels" on page 102.
- On a physical label attached to the outside of your computer shipping carton.

Industry Canada compliance statement

CAN ICES-003(B)/NMB-003(B)

European Union / United Kingdom (UK) conformity

European Union (EU) / United Kingdom (UK) — Electromagnetic Compatibility Compliance

This product is in conformity with the protection requirements of EU Council Directive 2014/30/EU on the approximation of the laws of the Member States, as well as UK SI 2016 No. 1091 with amendments, relating

to the electromagnetic compatibility limits for Class B equipment. These Class B requirements are intended to offer adequate protection to broadcast services within residential environments.

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>.

German Class B compliance statement

Hinweis zur Einhaltung der Klasse B zur elektromagnetischen Verträglichkeit

Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie zur elektromagnetischen Verträglichkeit Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten und hält die Grenzwerte der Klasse B der Norm gemäß Richtlinie.

Um dieses sicherzustellen, sind die Geräte wie in den Handbüchern beschrieben zu installieren und zu betreiben. Des Weiteren dürfen auch nur von der Lenovo empfohlene Kabel angeschlossen werden. Lenovo übernimmt keine Verantwortung für die Einhaltung der Schutzanforderungen, wenn das Produkt ohne Zustimmung der Lenovo verändert bzw. wenn Erweiterungskomponenten von Fremdherstellern ohne Empfehlung der Lenovo gesteckt/eingebaut werden.

Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln, EMVG vom 20. Juli 2007 (früher Gesetz über die elektromagnetische Verträglichkeit von Geräten), bzw. der EU Richtlinie 2014/30/EU, der EU Richtlinie 2014/53/EU Artikel 3.1b), für Geräte der Klasse B.

Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen. Verantwortlich für die Konformitätserklärung nach Paragraf 5 des EMVG ist die Lenovo (Deutschland) GmbH, Meitnerstr. 9, D-70563 Stuttgart.

Japan VCCI Class B compliance statement

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

VCCI-B

Japan compliance statement for products which connect to the power mains with rated current less than or equal to 20 A per phase

日本の定格電流が 20A/相 以下の機器に対する高調波電流規制
高調波電流規格 JIS C 61000-3-2 適合品

Japan notice for ac power cord

The ac power cord shipped with your product can be used only for this specific product. Do not use the ac power cord for other devices.

本製品およびオプションに電源コード・セットが付属する場合は、それぞれ専用のものになっていますので他の電気機器には使用しないでください。

Other compliance and TCO Certified information of countries and regions

This section provides other compliance information about Lenovo products.

Certification-related information

Product name	Compliance ID	Machine type(s)
<ul style="list-style-type: none">ThinkPad T14s Gen 1ThinkPad T14s Gen 1 LTE (for mainland China only)	TP00105C / TP00105C0* (for Intel models)	20T0 and 20T1
<ul style="list-style-type: none">ThinkPad X13 Gen 1ThinkPad X13 Gen 1 LTE (for mainland China only)	TP00106C / TP00106C0* / TP00106C1* / TP00106C2 * (for Intel models)	20T2 and 20T3
<ul style="list-style-type: none">ThinkPad T14s Gen 1	TP00105D (for AMD models)	20UH and 20UJ
<ul style="list-style-type: none">ThinkPad X13 Gen 1	TP00106D (for AMD models)	20UF and 20UG

* for India only

Further compliance information related to your product is available at <https://www.lenovo.com/compliance>.

Regulatory labels

Depending on your country or region, you can find the government-required regulatory information through one of the following methods:

- On a physical label attached to the outside of your computer shipping carton
- On a physical label attached to your computer
- Through an electronic-label screen (E-label screen) preinstalled on your computer

To access the E-label screen, restart the computer. When the logo screen is displayed, press F9, or tap the prompt to enter the Startup Interrupt menu and the Regulatory Information option subsequently.

Korean E-label notice

이 제품은 전자적표시(e-labelling)가 되어있습니다.

TCO Certified

Selected models are TCO Certified and bear the TCO Certified logo.

Note: TCO Certified is an international third-party sustainability certification for IT products. For details, go to <https://www.lenovo.com/us/en/compliance/tco>.

Export classification notice

This product is subject to the United States Export Administration Regulations (EAR) and has an Export Classification Control Number (ECCN) of 5A992.c. It can be re-exported except to any of the embargoed countries in the EAR E1 country list.

Lenovo product service information for Taiwan

委製商/進口商名稱: 荷蘭商聯想股份有限公司台灣分公司
進口商地址: 臺北市中山區樂群三路128號16樓
進口商電話: 0800-000-702 (代表號)


Taiwan precautionary vision statement

警語：使用過度恐傷害視力

注意事項：

- 使用30分鐘請休息10分鐘。
- 未滿2歲幼兒不看螢幕，2歲以上每天看螢幕不要超過1小時。

Supplemental information for the Eurasian Union

Назначение	персональный компьютер для личного и служебного использования, для передачи данных, с поддержкой различных профилей подключения (Wi-Fi, Bluetooth и пр.).
Изготовитель	Леново ПЦ ХК Лимитед, 23/Ф Линколн Хаус, Тайку Плэйс 979 Кингз Роуд, Куарри Бэй, Гонконг (Lenovo PC HK Limited, 23/F Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong)
Страна производства	Китай
Наименование и местонахождение уполномоченного изготовителем лица	ООО «Леново (Восточная Европа/Азия)» 143401, Московская область, г. Красногорск, бульвар Строителей, дом 4, корпус 1, помещение VII, тел. +7 495 645 83 38, факс +7 495 645 78 77.
Импортер	Наименование, адрес импортера и информация для связи с ним указаны на этикетке* на упаковке продукции. *Согласно ГОСТ 2.601-2013 «Единая система конструкторской документации. Эксплуатационные документы», пункт 5.1, подпункт 5.1.2, этикетка является видом эксплуатационных документов.
Дата изготовления (месяц и год)	Указана на этикетке* на упаковке продукции, в графе Date (дата указана в формате год-месяц-дата). Для получения более подробной информации посетите веб-сайт: https://support.lenovo.com
Единый знак обращения на рынке стран Таможенного союза	

Brazil audio notice

Ouvir sons com mais de 85 decibéis por longos períodos pode provocar danos ao sistema auditivo.

ENERGY STAR model information



ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy aimed at saving money and protecting the environment through energy efficient products and practices.

Lenovo is proud to offer products with the ENERGY STAR certified designation. Lenovo computers, if carry an ENERGY STAR mark, have been designed and tested to conform to the ENERGY STAR program requirements for computers as prescribed by the U.S. Environmental Protection Agency. For a certified computer, an ENERGY STAR mark may be affixed to the product, the product packaging, or displayed electronically on the E-label screen or the power settings interface.

By using ENERGY STAR compliant products and taking advantage of the power management features of your computer, you reduce the consumption of electricity. Reduced electrical consumption contributes to potential financial savings, a cleaner environment, and the reduction of greenhouse gas emissions. For more information about ENERGY STAR, go to <https://www.energystar.gov>.

Lenovo encourages you to make efficient use of energy an integral part of your day-to-day operations. To help in this endeavor, Lenovo has preset a default power plan. To change the power plan, see “Set the power plan” on page 31.

Appendix E. Notices and trademarks

Notices

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