# User Guide

Yoga Slim 7i Aura Edition (14",11)

**Read this first**

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

- *Generic Safety and Compliance Notices*
- *Safety and Warranty Guide*
- *Setup Guide*

## HEVC Standard

This product may support digital video coding under certain versions of HEVC (High Efficiency Video Coding) standard and, if so, may be covered by patents at patentlist.accessadvance.com.

**First Edition (February 2026)**

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# About this User Guide

This *User Guide* is intended for users of the Lenovo personal computer (PC) products listed in the table below. It provides feature descriptions, specifications, and operating instructions to assist users with the daily operation of their PCs. Additionally, it offers support resources to help users troubleshoot issues independently or obtain assistance when needed.

*Table 1. Models supported by this User Guide*

| Model name | Machine type |
|---|---|
| • Yoga Slim 7 14IPH11<br>• Yoga Slim 7 14IPH11 1 | 83QM |

PCs are general-purpose computing devices. Users interact with a PC through the interface provided by the operating system, on top of which additional applications can be installed to enhance and extend the PC's functionality. In fact, the ability to add and install applications is what makes PCs so versatile and popular. Given the open nature of PCs, it is impossible to cover every aspect of PC usage in this guide. Instead, this guide provides information on features and functions available out of the box, focusing on essential, security, and convenience features that enable you to use the PC effectively, securely, and efficiently. We hope the information provided here serves as a starting point from which your knowledge and creativity will guide you in transforming this PC into a valuable companion for learning, leisure, entertainment, and academic or professional endeavors. For questions not covered in this guide, please refer to the included support resources.

## Other supporting documents

This *User Guide* is part of a comprehensive documentation set designed to support your use of the PC product. The documents may be specific to your product model or applicable to all Lenovo PC products and are available either as printed materials or digitally on the Lenovo Support website.

### Setup Guide

A printed material included in the product packaging that provides instructions to help you connect your PC to a power source and turn it on for the first time.

### Safety and Warranty Guide

A printed material included in the product packaging that contains important safety information you must read before using your PC. It also provides compliance statements and disclosures required by applicable laws and regulations.

**Note:** This is a generic document intended for use with all Lenovo PC products and may contain information that does not apply to your specific product model.

### Generic Safety and Compliance Notice

A digital document in Portable Document Format (PDF) that contains important safety information you should know while using your PC. It also provides compliance statements and disclosures required by applicable laws and regulations.

**Note:** This is a generic document intended for use with all Lenovo PC products and may contain information that does not apply to your specific product model.

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### Hardware Maintenance Manual

A digital document in Portable Document Format (PDF) and Hypertext Markup Language (HTML), primarily intended for Lenovo service technicians, contains instructions for disassembling and servicing the product. This document is made available to users in accordance with applicable laws and regulations that protect customers' rights to independently service their products.

### Regulatory Notice

A digital document in Portable Document Format (PDF) containing radio frequency-related statements or disclosures as required by applicable laws and regulations.

## Notice regarding the accuracy of information

Product illustrations in this *User Guide* are intended to demonstrate features and may include details that differ from those of the actual product. This *User Guide* may cover multiple product models or configurations and, as such, may include feature descriptions that do not apply to your specific model or configuration.

Many operating instructions, especially those on device configuration and setup are closely related to the operating system. If you install a different operating system than what is described in this guide, some instruction provided may not apply.

Both the operating system and applications can now be updated over the Internet. As a result, the feature descriptions and operating instructions related to the operating system and applications may differ from the actual features and operations.

# Chapter 1. Product overview and specifications

This chapter presents product illustrations with key user interface components labeled and explained to help you identify and locate them, as well as understand the basic functionalities they provide during routine PC use. The specifications at the end of this chapter offer technical details of the included devices, along with the designed limits for the operation and storage of the PC.

## Top view

| No. | Description |
|---|---|
| 1 | Wireless antennas |
| 2 | Keyboard |
| 3 | Touchpad |

## Antennas

The antennas transmit and receive radio waves to allow data to be transferred between your PC and a Wi-Fi network device or a Bluetooth device.

**Note:** The antennas are hidden inside the PC.

## Keyboard

The keyboard is the PC's built-in input device for typing characters. It also includes keys that can make you more productive when interacting with the PC, apps, and the Windows operating system.

**Note:** Keyboard layouts vary by language and geographical location. The keyboard on your PC may look slightly different from those depicted in the product illustrations in this publication.

**Related topics**

“Shortcut keys” on page 21

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## Touchpad

The touchpad is the PC's built-in pointing device. Slide your finger on the touchpad to move the pointer on the screen and tap or double-tap to select or execute a screen item.

The touchpad also supports Windows multi-finger gestures, providing a convenient alternative for switching between app windows and the desktop, activating the search box, or adjusting volumes.

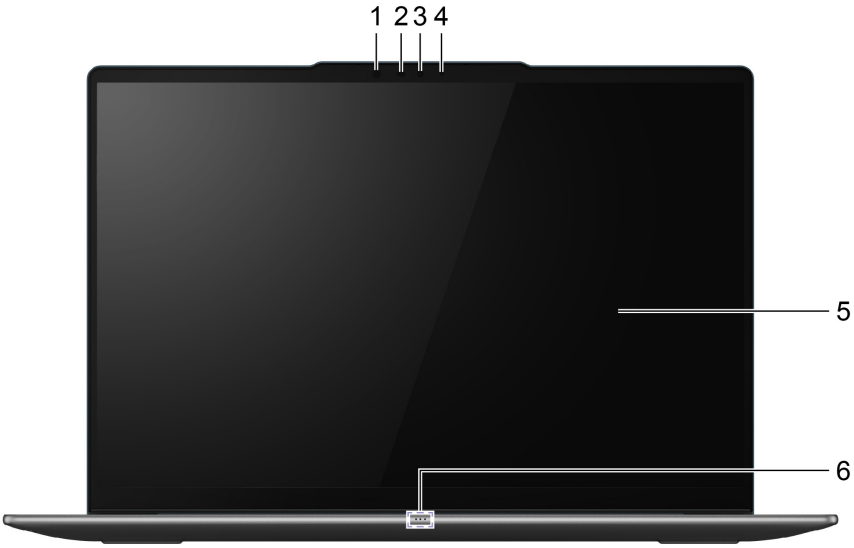
**Related topics**

“Touchpad gestures” on page 25

**Related tasks**

“Modify the default functions for touchpad gestures” on page 25

## Front view




| No. | Description |
|---|---|
| 1 | IR LED |
| 2 | IR camera |
| 3 | Camera |
| 4 | Camera light |
| 5 | Screen |
| 6 | Microphone |

**Note:** This product illustration shows a touch-enabled screen. Some models may feature a non-touch screen, which differs slightly from the one shown here.

## Infrared camera

The infrared camera receives near-infrared waves emitted by an infrared LED and reflected by a human face. It is used for facial recognition.

**Related tasks**

"Set up facial recognition" on page 15

## Infrared LED

The infrared LED generates and emits near-infrared waves that are received and used by a camera (or a dedicated infrared camera) for facial recognition.

## Camera

The built-in camera captures visible light and converts it to digital signals. It is used for video recordings and video conferencing.

## Camera light

The camera light indicates whether the camera is activated.

*Table 2. Camera light status and description*

| Camera light status | Description |
|---|---|
| On | The camera is activated. |
| Off | The camera is not activated. |

## Screen

The screen of the built-in display is where text, graphics, and videos are displayed.

Some models offer touch-enabled screens, which allow you to interact with your PC by intuitively touching buttons, icons, and menu items displayed on the screen. Touch-enabled screens also support multi-finger gestures.

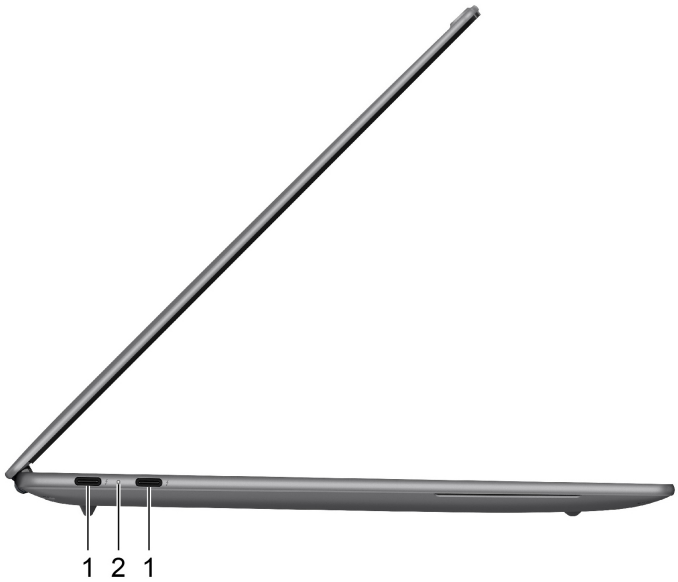
## Microphones

The microphones are the PC's built-in sound input devices. They capture your voice and ambient sound and convert them into digital form. Microphones are essential components when you use your PC for video conferencing or voice recording.

**Related topics**

“Frequently used settings within Lenovo Vantage” on page 26

## Left view




| No. | Description |
|---|---|
| 1 | Multi-purpose USB Type-C connector |
| 2 | Charging light |

## Multi-purpose USB Type-C connector

This USB Type-C® connector is the PC's power input connector. Use the included power adapter and this connector to supply power to the PC.

**Note:** This multi-purpose USB Type-C connector complies with the USB Power Delivery specification. If your PC is sold without an included ac power adapter, you can reuse an existing USB Power Delivery–capable charger or purchase one separately. Refer to the specifications section in this publication for the minimum and maximum negotiable power levels supported by this connector.

When this connector is not used by the included power adapter, it can also be used to connect:

- Storage or peripheral devices that follow the universal serial bus (USB) specification for data transfer and device interconnection
- Display devices

  **Note:** When connecting display devices, you need to use appropriate cables and adapters (if needed) according to the connection capabilities of the display device.
- Thunderbolt™-enabled docks or devices

**Related topics**

"Connecting external displays" on page 20

## Charging light

The charging light indicates whether the PC is plugged into an electrical outlet. When the PC is plugged into an electrical outlet, the color of the light indicates whether the battery is fully charged (or will shortly be fully charged).

*Table 3. Charging light statuses and descriptions*

| Light status | Plugged in? | Battery charge level |
|---|---|---|
| Off | No | / |
| On, amber | Yes | 1%–90% |
| On, white | Yes | 91%–100% |

## Right view

| No. | Description |
|---|---|
| 1 | Multi-purpose USB Type-C connector |
| 2 | Power button |
| 3 | Power light |
| 4 | Camera switch |

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- Display devices

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- Thunderbolt™-enabled docks or devices

**Related topics**

“Connecting external displays” on page 20

## Power button

Press the power button to turn on your PC.

**Note:** By default, on a Windows PC, pressing the power button when the PC is turned on will put the PC into sleep mode.

## Power light

The power light indicates the current power state of the PC: whether it is powered on, powered off, in sleep mode, or in hibernation mode.

When the PC is powered on, this light can also indicate low battery by blinking rapidly.

*Table 4. Power light status and description*

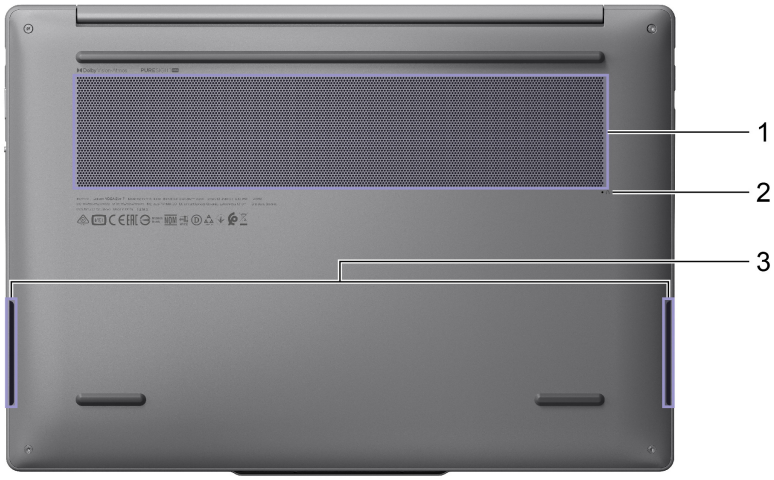
| Light status | Power state | Battery charge level |
|---|---|---|
| White (solid on) | Powered on | 21%–100% |
| White (blinking rapidly) | Powered on | 1%–20% |
| White (blinking slowly) | In sleep mode | / |
| Off | Powered off or in hibernation mode | / |

## Camera switch

This toggle switch is used to enable or disable the built-in camera.

**Note:** This switch is designed for privacy protection. If you don't need to use the camera, slide the switch to the off position to prevent any apps from using the camera.

## Bottom view




| No. | Description |
|---|---|
| 1 | Ventilation slots (intake) |
| 2 | Novo button |
| 3 | Speakers |

## Air vents (intake)

The air vents allow air to be sucked inside of the PC to cool the internal components.

**Important:** When the PC is operating, do not place it on a bed, sofa, carpet, or other flexible surfaces. Otherwise, the air vents will be blocked and the PC may overheat, reducing performance or causing the PC to be unresponsive or even shut down.

## Novo button hole

When the PC is powered off, you can press the Novo button to display the Novo button menu. From the menu, you can then choose to:

- Open the firmware setup utility
- Display the boot device selection menu
- Display the Windows advanced startup options page

**Note:** The Novo button is rarely used during normal PC operations. To prevent users from accidentally pressing it, the Novo button is placed in a recessed hole. You can use a straightened paper clip to press this button.

**Related topics**

"Firmware setup program" on page 36

"How can I start my PC from another device?" on page 55

## Speakers

The speakers are the PC's built-in sound output devices.

**Related topics**

"Frequently used settings within Lenovo Vantage" on page 26

# Specifications

### Dimensions

| Item | Value or specification |
|---|---|
| Width | 312 mm |
| Depth | 221 mm |
| Thickness | • 13.9 mm (T2)<br>• 15.9 mm (T4) |

### ac power adapter

| Item | Value or specification |
|---|---|
| Plug type | USB Type-C |
| Input | 100–240 V ac, 50–60 Hz |
| Negotiable voltages (USB Power Delivery) | • 5V<br>• 9V<br>• 15V<br>• 20V |
| Maximum output power | 65W (20V, 3.25A) |

**Note:** This PC is available in select countries or regions without an included ac power adapter.

### Rechargeable battery pack

| Item | Value or specification |
|---|---|
| Capacity | 70 Wh |
| Type | Rechargeable Li-ion Battery |
| Number of cells | 4 |

### Memory

| Item | Value or specification |
|---|---|
| Type | LPDDR5X |
| Installation | On-board |
| Slot quantity | 0 |

### Mass storage device

| Item | Value or specification |
|---|---|
| Type | SSD |
| Slot type | M.2 (2242) |

| Item | Value or specification |
| --- | --- |
| Slot Quantity | 1 |
| Interface | PCIe Gen4 |

### Display

| Item | Value or specification |
| --- | --- |
| Size | 14 inches |
| Type | OLED |
| Resolution | • 1920 × 1200, or<br>• 2880 × 1800 |
| Maximum refresh rate | • 60Hz, or<br>• 120Hz |

**Connectors**

| Item | Value or specification |
|---|---|
| Multi-purpose USB Type-C connector | • Quantity: 3<br>• Power level<br>  – Output<br>  – Voltage: 5V<br>  – Maximum current: 3A<br>  – Input<br>  – Maximum: 65W (20V, 3.25A) (USB Power Delivery)<br>  – USB Power Delivery<br>  • Minimum: 45W (20V, 2.25A)<br>  • Maximum: 65W (20V, 3.25A)<br><br>  **Note:** The minimum power is the lowest acceptable power level required to keep the PC operational and initiate charging of the internal battery, while the maximum power is the highest acceptable power level that enables the fastest charging speed. Both power levels are negotiated according to the protocols specified in the *USB Power Delivery Specification*.<br>• Data protocol<br>  – USB 2.0 480 Mbps<br>  – SuperSpeed USB 5 Gbps<br>  – SuperSpeed USB 10 Gbps<br>  – USB4 40Gbps<br>  – Thunderbolt 4 41.25 Gbps<br>  – DisplayPort 2.1<br>  – Maximum data rate: 80 Gbps<br>  – Maximum output resolution (without DSC)<br>  • Single display: 3840 × 2160 (120Hz, 10bpc)<br>  • Multi-stream transport: 2 × 3840 × 2160 (60Hz, 10bpc)<br>  – Maximum output resolution (with DSC)<br>  • Single display: 7680 × 4320 (60Hz, 10bpc)<br>  • Multi-stream transport: 4 × 3840 × 2160 (60Hz, 10bpc) |

**Note:** Data transmission rates are presented as maximum theoretical values in compliance with applicable specifications. The actual data transmission rates depend on various factors, including the performance of the connected devices and the quality of the cables being used. These rates are typically slower than the maximum theoretical values listed.

**Networking**

| Item | Value or specification |
|---|---|
| Wi-Fi standards | • 802.11 a/b/g<br>• 802.11n<br>• 802.11ac wave 2<br>• Wi-Fi 6 (802.11ax)<br>• Wi-Fi 6E<br>• Wi-Fi 7<br>**Note:** Different Wi-Fi standards may operate on different frequency bands. In some countries or regions, certain frequency bands may be prohibited for unlicensed use or may require specific conditions. Wi-Fi 6E and Wi-Fi 7 on this PC are disabled in some countries or regions in accordance with local regulations. |
| Bluetooth | Bluetooth 5.4 |

## 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 |
| USB4 40Gbps | 40 |

## Tips for selecting a certified charger

When selecting or reusing a third-party USB Type-C charger for this PC, choose a product that is safety-approved or certified.

**Attention:** An uncertified charger may damage your PC or pose an electrical hazard.

In many countries and regions, manufacturers or importers of electric chargers can submit their products to certification authorities or approved and recognized testing laboratories. These products typically bear a mark indicating that they meet the relevant quality and safety standards. In some countries and regions, this certification process is mandatory.

If you live in mainland China, choose a charger with the "CCC" mark. For users in many European countries, select one with the "CE" mark. For users in the United States and Canada, choose a charger listed by one of the Nationally Recognized Testing Laboratories (for example, the "UL Listed" mark). For people living in other countries or regions, consult a qualified electrical engineer to learn how to select a safety-approved electric charger.

## Operating environment

### Maximum altitude (without pressurization)

3048 m (10 000 ft)

**Temperature**

- At altitudes up to 2438 m (8000 ft)
  - Operating: 5°C to 35°C (41°F to 95°F)
  - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8000 ft)
  - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°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: 5% to 95% at wet-bulb temperature 27°C (81°F)

# Chapter 2. Daily use

This chapter provides instructions to help you set up your PC and get it running, while also highlighting out-of-the-box features that enable you to use the PC efficiently and effectively. Please keep in mind that many of the instructions in this chapter are closely related to the preinstalled operating system and applications and may become outdated due to updates delivered over the Internet.

## Your PC and its operating system

The operating system is essential software for a PC. It manages the hardware devices of the PC, provides utility applications and user interfaces, and enables the installation of various applications for a wide range of purposes.

Your PC comes with Windows 11 pre-installed.

### Initial setup of the Windows operating system

When you turn on your PC for the first time, the Windows operating system will guide you through the initial setup process. Most importantly, you will:

- Create a user account
- Connect to a wireless network that has Internet access
- Select language-related settings

**Note:** If you choose to set up Windows for personal use, you must either use an existing Microsoft account or create a new one. You can switch to a local account after the initial setup.

### Set up facial recognition

Apart from text-based passwords, Windows 11 supports additional user authentication methods for PCs with the required hardware devices. For PCs equipped with a built-in infrared LED and an infrared camera, you can enable facial recognition to sign into Windows using your face.

Step 1. Select **Start → Settings → Accounts → Sign-in options → Facial recognition**.

Step 2. Select **Set up → Get started** and follow on-screen instructions to enroll your face.

**Note:** If you are using a local account to sign into Windows, you must set a password for the account before you can enable facial recognition.

**Related topics**

"Frequently used settings within Lenovo Vantage" on page 26

### Windows Update

From time to time, your PC receives update notifications. These notifications may include new features, security updates, and device drivers. While security-related updates are typically downloaded and installed automatically, you can manually control the installation of other available updates.

In Windows Update, you can view available updates, manually check for updates, and configure settings related to updates. To navigate to Windows Update, select **Settings → Windows Update**.

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## Windows recovery options

While using your PC, you may encounter various issues. Windows provides several recovery options to help restore your system to normal functionality. The table below will help you choose the right option for different situations.

*Table 5. Windows recovery options*

| Situations | Recovery options |
|---|---|
| Windows runs much slower after you install an app. | Restore Windows from a system restore point. |
| Windows hasn't been functioning properly for some time. | Reset your PC while keeping your personal files. |
| Your PC won't start. | Utilize Windows startup repair function. |
| Your PC won't start and cannot be repaired using Windows startup repair function. | Use a recovery drive to restore Windows. |

### Reset Windows

Resetting Windows allows you to reinstall the operating system while retaining your personal files. This gives the operating system a fresh start and, in some cases, restores the PC's original performance.

Step 1. Select **Settings** → **System** → **Recovery**.

Step 2. Under recovery options, select **Reset PC**.
When prompted, choose between **Keep my files** and **Remove everything**.

Step 3. Follow the on-screen instructions to complete the reset process.

### Create a recovery drive

It is advisable to create a recovery drive after completing the initial setup of Windows. If you encounter a significant issue that prevents Windows from starting, you can use the recovery drive to restore the operating system on your PC.

Step 1. Prepare an empty USB drive with a storage capacity of 32 GB or more.

Step 2. In the search box on the taskbar, type `Create a recovery drive` and select the matched app.

Step 3. Make sure **Back up system files to the recovery drive** checkbox is selected and select **Next**.

Step 4. When prompted, connect the USB drive to your PC, select it, and then select **Next**.

Step 5. Select **Create**.

### Restore Windows using a recovery drive

If the Windows operating system fails to start, you can use a previously created recovery drive to restore Windows onto your PC.

Step 1. Shut down your PC.

Step 2. Connect the recovery drive to your PC.

Step 3. Press the Novo button to open the Novo button menu.

Step 4. Select **Boot Menu**.

Step 5. Select the USB drive as the boot device.
The PC will start to the Windows Recovery Environment.

Step 6. Follow the on-screen instructions to restore Windows onto your PC.

## Use power efficiently

As an electronic device, your PC requires electricity to operate. The Windows operating system provides advanced power management features for the devices included in your PC. You can take advantage of these features to use your PC in an energy-efficient manner.

## Shut down your PC

When you have finished using your PC and do not plan to resume shortly, shut it down.

Step 1. Select **Start** → **Power**.

Step 2. Select **Shut down**.

## Put your PC into sleep mode

If you need to stop using your PC but plan to resume shortly, you can put it into sleep mode. Your PC will wake up more quickly from sleep mode, allowing you to return to where you left off with your work.

Step 1. Select **Start** → **Power**.

Step 2. Select **Sleep**.

## Adjust timeout settings for saving power

Setting appropriate timeouts for your PC to enter sleep mode and for the built-in screen to turn off is an effective method of reducing your PC's power consumption. The Windows operating system comes with default timeout settings for these two items, which you can adjust to better suit your preferences.

Step 1. Select **Start** → **Settings** → **System** → **Power & battery** → **Screen, sleep, & hibernation timeouts**.

Step 2. Adjust the settings.
For notebook PCs, you can set distinct timeouts for two usage scenarios: when the PC is plugged in and when it is running on battery power.

### Default timeout settings for power saving

The operating system on your PC has the following timeouts enabled by default. You can adjust these settings to better suit your preferences.

**Note:** Setting appropriate timeouts is an effective method of reducing your PC's power consumption. Avoid setting excessively long timeouts to effectively disable this power-saving feature.

*Table 6. Default timeout settings for the PC to enter sleep mode and the screen to turn off*

| Power saving action | Power state | Timeout (minute) |
|---|---|---|
| Turn off the screen | Plugged in | 5 |
| | On battery | 3 |
| Put the PC into sleep mode | Plugged in | 5 |
| | On battery | 3 |

**Note:** To wake the PC from sleep mode, press the power button or any key on the keyboard.

## Rechargeable battery pack

Your computer includes a built-in, rechargeable battery pack that makes mobile computing a reality. When the computer is plugged into an electrical outlet, the battery charges. If you use the computer when you don't have access to an electrical outlet, the battery discharges to supply electricity that the computer system requires for operation.

You can charge the battery any time you want. The battery packs of Lenovo computers support multiple charging modes that are suitable for different power usage habits. You can switch the battery's active charging mode in Lenovo Vantage, Lenovo PC Manager, or Lenovo Smart Engine.

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

**Note:**

You can check the battery temperature in Lenovo Vantage.

To maximize the life of the battery, once the battery is fully charged, it must discharge to 94% or lower before it will be allowed to recharge again.

**Related topics**

"Frequently used settings within Lenovo Vantage" on page 26

### Conservation mode

If your computer is constantly plugged into an electrical outlet, consider switching the battery charging to conservation mode. In conservation mode, the battery will not be fully charged. Instead, the battery's charge will be maintained within 75%–80%. This is beneficial to the long-term health of the battery.

**Note:** If you want the battery to be fully charged before bringing the computer to work, disable conservation mode by switching the battery charging to normal or rapid charge mode.

### Overnight charge optimization

Some people follow a regular pattern when using their computers. They finish their workday with the computer at a low battery charge level. They plug in their computers at night and need the battery to be fully charged the next morning so they can unplug the computer and bring it to work. These activities happen at approximately the same time each day. If this sounds like you, consider enabling overnight charge optimization for the battery.

Overnight charge optimization affects battery charging during the night hours, the time when you're usually asleep. When it is enabled, the computer regularly adapts its charging behavior based on observation of when you plug in the computer at night and unplug it in the morning. During the nighttime, the battery is charged to a particular range and is kept within that range for an extended period, before being further charged to 100%. Overnight charge optimization ensures safe charging during the night and is beneficial to the long-term health of the battery.

**Note:** With overnight charge optimization enabled, if you break your routine one day by unplugging the computer much earlier than usual in the morning, you may find that the battery is not fully charged.

If the battery pack of your computer supports overnight charge optimization, it can be enabled in Lenovo Vantage or Lenovo PC Manager.

### Recover full battery capacity

If your computer is constantly plugged in to an electrical outlet and the battery rarely discharges, the battery may not be charged to its full capacity even if the battery meter reports 100% charge. You can recover the battery's full charging potential simply by discharging and re-charging the battery.

Step 1. Unplug the computer and use it until the battery charge drops below 20%.

Step 2. Plug in the computer and charge the battery to 100%.

## Set up Internet access

In your home or office, Internet access is typically provided through Wi-Fi-enabled networks. You can connect to such a network to access the Internet. The Windows operating system provides utilities that assist in searching, connecting to, and managing wireless networks within range.

Step 1. Select the Network, Sound, and Battery icons ( ) on the right side of the taskbar to open quick settings.

Step 2. On the quick settings pane, select the > symbol next to the network icon.
Wireless networks within range should be displayed.

Step 3. Select the network you want to connect to and then select **Connect**.

Step 4. Enter the network security key when prompted.

## Interact effectively with your PC

You interact with your PC through its input and output devices. You spend a significant amount of time looking at the screen, where the user interface and content are displayed. The speakers produce sound, allowing you to listen to music or a voice recording. You type with the keyboard and navigate with the touchpad. You can join and participate in a web conference using the built-in camera and microphone.

Apart from the built-in devices, you can connect both wired and wireless external devices to enhance your interaction with your PC.

## The display device

The built-in display is your PC's primary visual output device. The display for select models is touch-enabled. For those models, you can tap and swipe directly on the screen. You can also use multi-touch gestures on the screen to navigate within Windows more efficiently.

### Touch screen gestures

The screen of select models of this PC is touch-enabled. If your PC is equipped with a touch-enabled display, you can tap or swipe on the screen to interact with your PC. In addition, the Windows operating system also supports multi-finger gestures on the touch screen to enhance productivity while interacting with the operating system.

*Table 7. Touch screen gestures*

| Gesture | Function |
|---|---|
| Swipe in from the left edge of the screen | Shows Widgets |
| Swipe in from the right edge of the screen | Shows Notification Center |
| Swipe in from the bottom edge of the screen | Shows the Start menu |
| Swipe vertically with two fingers | Scrolls pages |
| Place two fingers on the screen and pinch in or stretch out | Zooms out / zooms in |
| Swipe up with three fingers | Shows all open windows |
| Swipe down with three fingers | Retruns to the desktop |

## Adjustable display refresh rate

Your eyes might not notice it but the content displayed on the computer screen refreshes constantly. Display refresh rate refers to the number of times per second the screen content refreshes itself and is measured in hertz (Hz).

A refresh rate of 60 Hz is adequate for most situations and is energy efficient. However, when viewing videos or playing video games, a higher refresh rate usually provides a smoother viewing experience.

The displays of some Lenovo computers support dual refresh rates. For such a computer, you can manually switch its display to work at either the higher or lower refresh rate. For Windows operation systems, the manual settings are usually found in **Settings → System → Display**. As a shortcut, you can also use the key combination Fn + R to switch the display refresh rate.

**Note:** Not all displays support dual refresh rates. If you cannot find settings to change the display refresh rate, the refresh rate of the display might be fixed or cannot be manually changed.

## Turn on night light

The night light feature in Windows 11 enables users to switch to warmer color tones, reducing blue light emission to alleviate eye strain or fatigue.

Step 1. Open the quick settings menu by selecting the network, sound, or battery icons ( ) on the far right of the taskbar or by using the keyboard shortcut ⊞ + A.

Step 2. Select the button for night light to turn it on or off.

For more tips on reducing eye strain or fatigue, visit https://www.lenovo.com/us/en/compliance/visual-fatigue.

### Adjust color temperature

If Windows 11 night light mode is turned on, you can adjust the color temperature of the screen.

Step 1. Select **Start → Settings**.

Step 2. Select **System → Display → Night light settings**.

Step 3. Move the slider to adjust the color temperature.

## Connecting external displays

Your PC has a built-in screen that displays text, images, videos, and software interfaces, which is sufficient for many situations. However, there are times when you may want to connect one or more external displays to expand your workspace, especially for multitasking.

All three USB Type-C connectors on your PC support DisplayPort Alt Mode, allowing you to connect one or multiple displays using any of them. The type of cable required depends on the input connectors available on the target display device.

If the target display includes a USB Type-C connector that also supports DisplayPort Alt Mode or Thunderbolt/USB4 tunneling, you can use a cable with a USB Type-C plug on both ends for the connection.

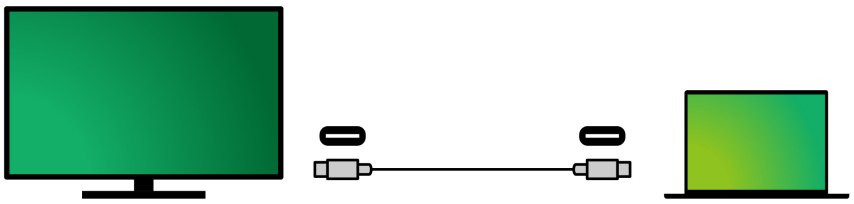

*Figure 1. Connecting an external display with a USB Type-C connector that supports DisplayPort Alt Mode or Thunderbolt/USB4 tunneling*

The USB Type-C input connector on some displays may also support USB Power Delivery. If your PC is connected to such a connector, it can receive power from the display while simultaneously transmitting display data through the same connection.

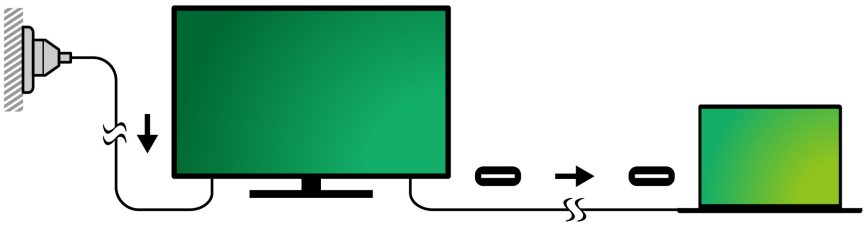

*Figure 2. A connected display supplies power to the PC through the Power Delivery-compliant USB Type-C connector*

If the target display only includes a DisplayPort or HDMI connector, you can use a cable with a USB Type-C plug on one end, and a DisplayPort or HDMI plug on the other for the connection.

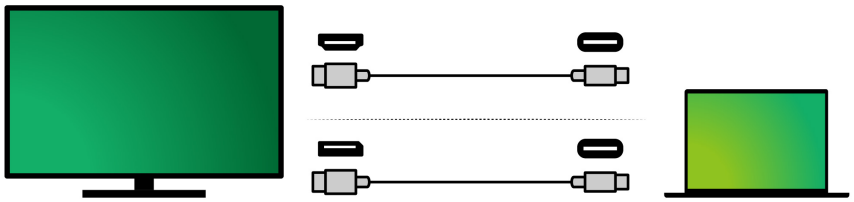

*Figure 3. Connecting an external display with an HDMI or DisplayPort connector*

# Keyboard

## Shortcut keys

A Lenovo keyboard usually includes the following shortcut keys that you can use to quickly access apps or adjust settings.

- Functions keys (F1–F12)
- Hotkeys
- Combination keys using the fn key
- Combination keys using the Windows logo key

- The Copilot key

### Hotkeys

Hotkeys provide quick access to frequently used settings and applications. Typically located in the top row of the keyboard, they often share keys with the function keys (F1–F12) and several other keys. Each hotkey's function is denoted by the icon printed on the key.

*Table 8. Hotkey functions*

| Hotkey icon | Function description |
|---|---|
| | Mutes/Unmutes sound. |
| | Decreases volume. |
| | Increases volume. |
| | Enables/Disables the microphone. |
| | Decreases screen brightness. |
| | Increases screen brightness. |
| | Selects and sets up display devices. |
| | Enables/Disables airplane mode. |
| mode | Opens the smart mode widget. |
| | Locks the screen. |
| | Opens the Smart Connect app. |
| | Opens the Calculator app. |
| | Opens the AI experience provided by Lenovo. |
| | Opens the Windows Snipping Tool. |

### The FnLock switch

The FnLock is an electronic switch that affects how you use hotkey functions. To turn it on and off, press Fn + Esc.

**Note:** The Esc key is in the upper left corner of the keyboard. It has an LED that indicates the status of the FnLock switch.

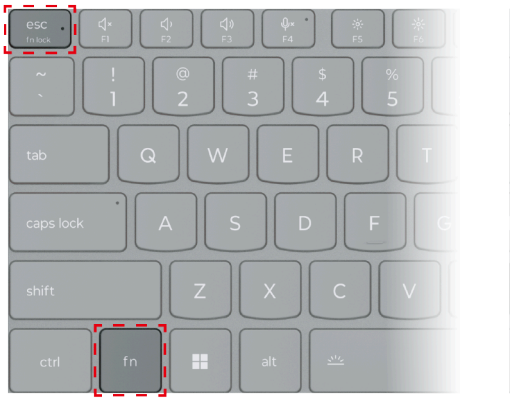


*Figure 4. Locations of the FnLock key and the Fn key*

A Lenovo keyboard usually contains hotkeys in the top row. These hotkeys share keys with the function keys (F1–F12) and other keys. For these dual-function keys, the icons or characters denoting the primary functions are printed on top of the icons and characters denoting the secondary functions.

- A: an icon or character denoting the primary function
- B: an icon or character denoting the secondary function

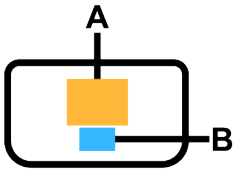


*Figure 5. The layout of a dual-function key*

*Table 9.* **FnLock** *and dual-function keys*

| FnLock (Esc) **LED** | FnLock **status** | **Pressing the hotkey alone** | **Pressing the hotkey while holding down the Fn key** |
|---|---|---|---|
| Off | Disabled | Primary function | Secondary function |
| On | Enabled | Secondary function | Primary function |

### Combination keys using the fn key

The fn key can be used in combination with specific keys to adjust device settings or activate additional functions.

*Table 10. fn-based key combinations*

| **Key combination** | **Function** |
|---|---|
| fn + Q | Switches the PC's active power mode |
| fn + R* | Switches the refresh rates of the built-in display |
| fn + M | Enables/disables the touchpad |
| fn + N* | Shows key device information |

*Table 10. fn-based key combinations (continued)*

| Key combination | Function |
|---|---|
| fn + Space | Adjusts keyboard backlight |
| fn + B | Break |
| fn + P | Pause |
| fn + S | SysRq |
| fn + K | ScrLk |
| fn + I | Insert |
| fn + T | PrtScr |
| fn + left arrow | Home |
| fn + right arrow | End |
| fn + up arrow | PgUp |
| fn + down arrow | PgDn |

**Note:** Some models are equipped with displays that have a fixed refresh rate. For these models, the Fn + R key combination does not perform any function. The Fn + N key combination may not function on models sold in mainland China. You can view the device information in Lenovo PC Manager.

### Combination keys using the Windows logo key

The Windows logo key is located in the lower-left corner of the keyboard. It can be used alone or in combination with specific keys to quickly change settings and access utilities within the Windows operating system. The table below lists frequently used key combinations. For a complete list of all key combinations that utilize the Windows logo key, please refer to the official Microsoft online documentation.

*Table 11. Windows logo key combinations*

| Key or key combination | Function |
|---|---|
| Windows logo key ⊞ | Opens or closes the Start menu |
| + A | Opens or closes Quick Settings |
| + D | Returns to the desktop |
| + E | Opens File Explorer |
| + I | Opens Settings |
| + L | Locks the screen |
| + M | Minimizes all open windows |
| + N | Opens or closes the Notification Area |
| + P | Switches multi-screen modes |
| + W | Opens or closes Widgets |
| + ; (semicolon) | Opens the emoji panel |
| + Tab | Opens or closes Task View |
| + PrtSc | Takes a full-screen screenshot and saves it to a file |

### The Copilot key

The era of AI has arrived, and many Lenovo PCs now include a Copilot key on the keyboard. It is located either in the bottom or the top row of the keyboard and is marked with .

For Windows PCs with Copilot in Windows available and enabled, pressing the Copilot key opens Copilot in Windows. Otherwise, pressing the Copilot key opens Windows Search.

## Touchpad gestures

The touchpad is your PC's built-in pointing device. You can tap and swipe on the touchpad to navigate within the operating system and within apps. In addition, the Windows operating system also supports multi-finger gestures on the touchpad to enhance productivity while interacting with the operating system.

*Table 12. Multi-finger touchpad gestures*

| Gesture | Function |
|---|---|
| Swipe vertically with two fingers | Scrolls pages |
| Place two fingers on the touchpad and pinch in or stretch out | Zooms out / zooms in |
| Tap two fingers on the touchpad | Displays the context menu (right-clicking) |
| Swipe up with three fingers | Shows all open windows |
| Swipe down with three fingers | Returns to the desktop |
| Swipe left or right with three fingers | Switches between open apps |
| Tap three fingers on the touchpad | Opens Windows Search |

### Modify the default functions for touchpad gestures

The functions for three-finger touchpad gestures can be modified in Windows Settings.

Step 1. Select **Settings → Bluetooth & devices → Touchpad**.

Step 2. Under **Three-finger gestures**, use the drop-down lists to modify the functions for the swipe or tap gestures.

## Bluetooth connectivity

Bluetooth is a short-range wireless technology commonly used for connections between nearby devices. Your PC is equipped with a built-in Bluetooth adapter. You can connect other Bluetooth-enabled devices to your PC. Bluetooth-enabled headphones, earbuds, loudspeakers, keyboards, and mouses are among the devices you may consider connecting to your PC.

### Connect a Bluetooth-enabled device to your PC

Establishing a Bluetooth connection requires actions on both the device and your PC. Turn on the device and make it discoverable before performing any actions on your PC.

Step 1. Select **Settings → Bluetooth & devices → Add device → Bluetooth**.

Step 2. Select the device you want to connect, and then select **Connect**.

Step 3. Depending on the type of device, you may need to either confirm the connection on the device side or enter a pairing code on your PC.

When a Bluetooth-enabled device is connected to your PC, its name and status are displayed under **Bluetooth & devices** on your PC.

## Installing applications

Applications are software programs developed by individuals and software companies. They are typically installed on top of the operating system to provide specialized functions. To install an application on your PC, you generally have two options.

- Download and install the application from your operating system's app store.
- Download the installation package from the developer's website and run the installation file to install it on your PC.

**Note:** Applications are usually licensed for use. When downloading and installing applications, be sure to check their license files, which contain the terms and conditions for use. For proprietary applications, you typically need to pay a licensing fee to install and use the software.

## Pre-installed Lenovo-developed applications

As a PC manufacturer, Lenovo develops applications and may preinstalled some of them on PCs that come with an operating system to help users maximize their PC experience, especially when they are just getting started. This section highlights the Lenovo-developed applications that we believe will be particularly useful to you.

### Lenovo Vantage

PCs are complex computing devices composed of numerous components, which can be categorized into power, display, sound, input, network, and other devices. Typically, these devices operate as intended without user intervention. However, there are times when you may want to adjust their settings to enable specific functions or enhance your experience for particular use cases.

The settings for these devices can be accessed through the operating system's settings utility. Lenovo also offers an app called Lenovo Vantage, which provides comprehensive, centralized, and more advanced control over the devices included in the PC. Additionally, it features combined, pre-defined settings for common usage scenarios in the form of modes. Instead of adjusting multiple individual settings, you can simply select or switch a mode, making PC usage much easier.

Lenovo Vantage is typically pre-installed on Lenovo PCs that come with a Windows operating system. You can open the application from the Windows Start menu by locating it in the app list or by searching for its name. If Lenovo Vantage is not pre-installed or if you need to install it after reinstalling Windows, you can download it from the Microsoft Store.

**Note:** If you purchased your Lenovo PC in mainland China, Lenovo PC Manager may be pre-installed instead of Lenovo Vantage. Lenovo PC Manager offers features similar to those of Lenovo Vantage and may include functionalities specifically tailored for local users.

#### Frequently used settings within Lenovo Vantage

The following table highlights settings within Lenovo Vantage that you may want to enable or adjust to enhance your PC experience for specific use cases or to better suit your preferences.

*Table 13. Frequently used settings within Lenovo Vantage*

| Settings | Section within Lenovo Vantage | Description | Benefits |
|---|---|---|---|
| Power modes | Power | A list of power-related modes for selection.<br>**Note:** The keyboard shortcut fn + Q can be used to cycle through the available power modes. | Provides a quick and easy way for users to balance performance and power consumption on their PC or to allow the PC to automatically make this decision based on usage scenarios. |
| Flip to start | Power | A toggle switch. When enabled, the PC can be turned on by flipping open the display. | Provides an easy and alternative way to turn on the PC. |
| Conserva-tion mode | Power | A toggle switch. When enabled, the battery stops charging once it reaches 80% of its full capacity. | It is beneficial for the battery's lifespan, especially if your PC is constantly connected to a power source. |
| Overnight battery charging | Power | A toggle button designed for users who typically charge their PCs overnight. Enabling this feature ensures the battery is fully charged by morning while minimizing the time the battery remains at full charge. | It is beneficial for the battery's lifespan. |
| Presence detection | Display | Toggle switches and advanced settings. When enabled, the PC can automatically dim and then lock the screen when you leave and sign you back into Windows upon your return. For supported video players, you can also enable automatic pausing and resuming of video playback based on your presence.<br>**Note:** The PC uses ultrasound technology to detect your presence in front of it. To enable zero-touch login, you must first activate the Windows Hello facial recognition sign-in option. | Enhances security, provides convenience, and reduces power consumption. |
| Eye care mode | Display | A toggle switch and an adjustment control for color temperature. | Reduces the chances of developing eye strain or fatigue. |
| Color manage-ment | Display | A list of popular color spaces for selection. | Provides a quick and easy method for switching between popular color spaces. |
| OLED power | Display | Timer settings to dim the entire OLED screen or specific sections of it. | Reduces power consumption and is beneficial for the lifespan of the OLED display. |

*Table 13. Frequently used settings within Lenovo Vantage (continued)*

| Settings | Section within Lenovo Vantage | Description | Benefits |
|---|---|---|---|
| Dolby Atmos® | Sound | Lenovo has partnered with Dolby® to design and fine-tune the built-in speakers of its PCs, delivering a spatial and immersive audio experience. A variety of audio profiles are available, each optimized for common use cases. Users can manually select a profile or allow the PC to automatically switch profiles based on the active application. | Provides a quick and easy way to apply settings that deliver a professionally tuned, spatial, and immersive audio experience. |
| Smart noise cancelling | Sound | For the microphone, you can choose from several options that allow it to suppress or filter out non-voice sounds. You can even configure the microphone to pick up only your voice, filtering out other voices and ambient noise. A toggle switch for speakers is available to enable voice-only audio output. | Enhances sound quality for recordings and teleconferences, especially in noisy environments. |

**Related tasks**

"Set up facial recognition" on page 15

## Smart Connect

In addition to PCs, many people today own other smart devices, such as smartphones and tablets, which they use daily. There is a growing demand for sharing files and pictures between these devices. Lenovo offers Smart Connect to enable fast, secure, and easy sharing between devices. Additionally, when connected through Smart Connect, you can check your phone's messages, view notifications, and even open its apps directly on your PC.

To connect through Smart Connect, the application must be installed on all devices. Smart Connect is typically pre-installed on Lenovo PCs that come with a Windows operating system. You can open the application from the Windows Start menu by locating it in the app list or by searching for its name.

To download Smart Connect on your phone or tablet, open Smart Connect on your PC, select **Add a device**, then select **Download Smart Connect** to display the QR code for the download link. Use your phone or tablet to scan the QR code to download the app.

## Lenovo Aura Edition features

Lenovo Aura Edition represents a premium series of AI PCs co-engineered by Lenovo and Intel. By integrating advanced hardware with intelligent, context-aware software, it delivers a flagship AI computing experience.

Built on deep hardware-software collaboration, the platform offers a highly personalized, efficient, and secure experience tailored to your needs through the intelligent features listed below. These features can be accessed using keyboard shortcuts or through the preinstalled applications Lenovo Vantage and Smart Connect.

*Table 14. Lenovo Aura Edition features*

| Feature | Description | Access method |
|---|---|---|
| Smart Modes | Automatically detects your activity and optimizes performance, power settings, and system parameters accordingly. You get the optimal experience in any scenario without manual adjustment. | • Press mode (F9) to open the widget.<br>• Select ⚙ in the widget for detailed configuration.<br>**Note:** Detailed settings are located under **Device settings → Modes** in Lenovo Vantage. |
| Smart Share | Enables seamless connection between your PC and Bluetooth devices for easy file sharing, collaboration, and multi-device interaction. This feature saves time and enhances productivity through effortless device synergy. | • Tap to Launch: Press (F11) to launch the Smart Connect app.<br>• Tap to Pair: Tap a supported Bluetooth device against the left or right edge of the PC screen. |
| Smart Care | Provides premium, on-demand live support directly from your PC or phone, offering convenient and comprehensive assistance whenever needed. | Open Lenovo Vantage and select **Smart Care** in the sidebar. |

## Smart Modes

Smart Modes is an intelligent, AI-powered feature that automatically optimizes your PC's performance and settings based on your current activity. It delivers a seamless, context-aware experience—allowing you to focus on your task without manual adjustments.

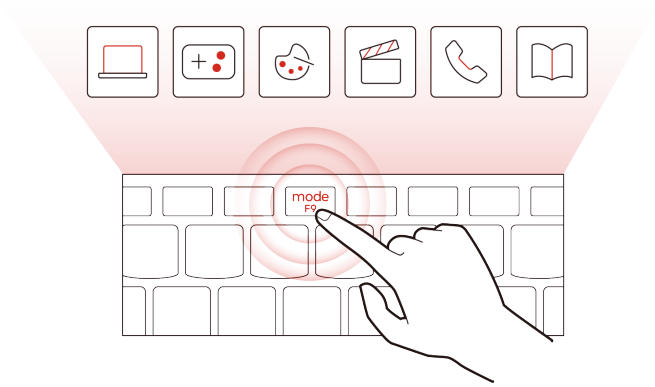


*Figure 6. Smart Modes feature demonstration*

*Table 15. Available modes*

| Mode | Description |
|---|---|
| Working | Reduces distractions and optimizes system performance for focused productivity. |
| Gaming | Enhances immersion with boosted performance, responsive controls, and tailored audio. |
| Creating | Delivers a customized environment for creative tasks such as design, editing, and content creation. |

*Table 15. Available modes (continued)*

| Mode | Description |
|---|---|
| Entertainment | Enables a relaxed viewing experience with features like Zero-Touch Video Playback. |
| Meeting | Improves call quality with AI noise cancellation and audio clarity. |
| Learning | Balances engagement and comfort with settings optimized for study and online courses. |

**Note:** With Auto Mode enabled, your PC intelligently detects your activity and switches to the ideal mode automatically. You can also manually select a mode anytime via the Smart Modes widget or in Lenovo Vantage.

### *Configure mode settings in Lenovo Vantage*

For a personalized experience, configure settings for each mode in Lenovo Vantage before first use.

Step 1. Press mode (F9) to launch the Smart Modes widget.

Step 2. Select ⚙ in the widget.
The Smart Modes settings page in Lenovo Vantage opens.

Step 3. Select a mode (such as Gaming), and then configure the settings in the section below.

Step 4. Repeat for other modes as needed.

Your configurations are saved and will apply whenever the corresponding mode is activated.

### *The Smart Modes widget*

The Smart Modes widget provides quick access to the most frequently used functions of the Smart Modes feature.

Press mode (F9) to launch this widget.

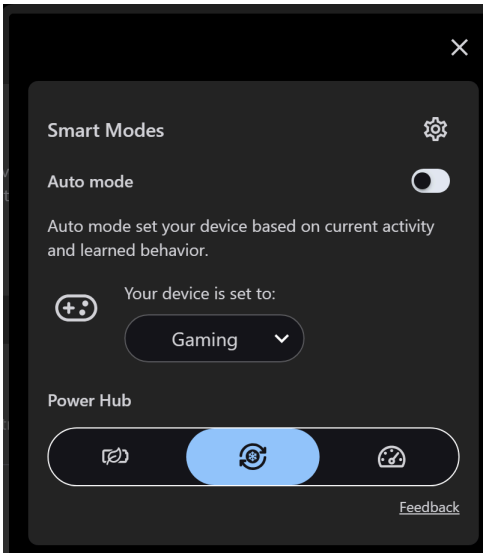


*Figure 7. The Smart Modes widget*

Within the widget, you can:

- Enable or disable Auto mode.
- Manually select a mode.

- Choose a preferred power mode:
  - Adaptive Performance
  - Extreme Low Power
  - Extreme Power Boost
- Select ⚙ to open the detailed Smart Modes settings page in Lenovo Vantage.

*Detailed settings page*

The detailed settings page is located under **Device settings → Modes** in Lenovo Vantage. In addition to the quick access functions in the widget, this page allows you to configure and adjust the following parameters for the current mode:

- Attention timer
- Distracting domains
- Wifi Auto-Recovery
- Microphone Noise Cancelling
- Speaker Noise Cancelling
- Dolby Atmos
- Zero Touch Video Playback

It is recommended to configure these parameters for each mode before first use. You can return to this page anytime to adjust a parameter for any mode.

**Note:** Available parameters may vary by product model. The user interface may also be updated to improve the user experience.

**Smart Share**

Smart Share is an ecosystem feature that enhances productivity by enabling seamless connection and sharing between your PC and other Bluetooth devices.

*Tap to Launch*

Tap to Launch is a Smart Share function that supports fast and convenient photo sharing between your PC and smartphones (iOS and Android supported).

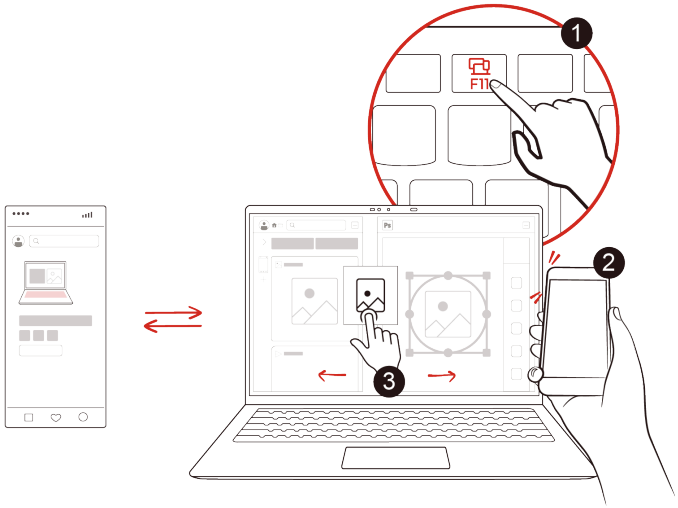


*Figure 8. Tap to Launch function demonstration*

*Pair your PC and phone*

Before pairing, ensure:

- The Smart Connect app is installed and running on both your PC and phone.

  **Note:** Download it free from your device's app store if not pre-installed.
- Bluetooth is enabled on both devices.
- Both devices are connected to the same Wi-Fi network.

Step 1. In the PC's Smart Connect app, click the Plus (+) icon on the left.
A QR code appears on your PC screen.

Step 2. Scan the QR code using the Smart Connect app on your phone.

Step 3. Follow the on-screen prompts to complete pairing.

You can pair multiple phones. To unpair, right-click the device name in the PC's Smart Connect app and select **Unpair device**.

*Share photos*

Ensure your devices are paired via the Smart Connect app, and the app is running on both devices.

Step 1. Tap your paired phone against the left or right edge of your PC display.
Alternatively, select **Connect** in the Smart Connect app on either device.
Your phone's gallery will sync to the paired PC.

Step 2. Follow the on-screen instructions on the app, and then drag and drop photos between your paired computer and phone for editing and sharing.

***Tap to Pair***

Tap to Pair enables quick, seamless pairing between your Aura Edition PC and supported Bluetooth accessories (earphones, headsets, and mice), replacing the traditional Bluetooth connection process.

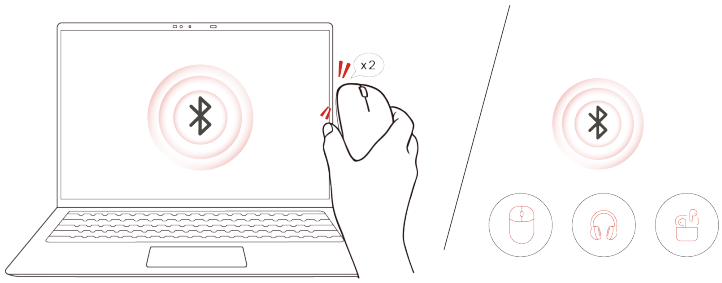


*Figure 9. Tap to Pair function demonstration*

**Note:** Depending on your product model, you may need to connect to the internet and complete an online update for this feature to work.

*Pair a Bluetooth accessory with Tap to Pair*

- Ensure Tap to Pair is enabled on your PC during Windows OOBE or in Lenovo Vantage.
- Supported accessories include earphones, headsets, and mice.

Step 1. Tap your Bluetooth accessory twice on the left or right edge of the PC screen.
A prompt appears asking you to confirm the pairing.

Step 2. Do one of the following:

Tap the accessory twice again.

Select **OK** in the prompt.

The accessory is paired with your PC.

Step 3. Repeat to pair additional Bluetooth accessories if needed.

### Smart Care

Smart Care is a unified support portal through the Lenovo Vantage app on your PC or the Smart Care app on your mobile device. It provides prompt assistance from Lenovo experts.

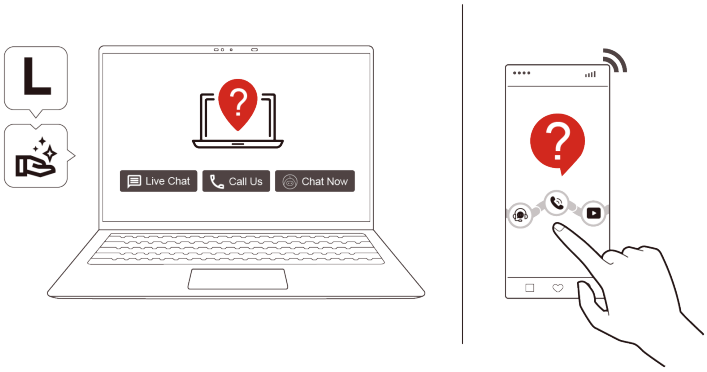


*Figure 10. Smart Care feature demonstration*

Use Smart Care whenever you need help. Example scenarios include:

- Quick troubleshooting: Get instant tips when an error occurs.
- OS issues: Schedule a callback for step-by-step recovery assistance if your operating system fails to boot.
- Finding user guides: Browse detailed guides in Explore Support to learn about new features.
- Checking repair status: Monitor the progress of a device repair.
- Remote assistance: Share a system snapshot during a remote session so a technician can verify specs without manual checks.

To access Smart Care, open Lenovo Vantage and select **Smart Care** in the sidebar.

**Notes:**

- Smart Care requires Lenovo Vantage to be installed.
- This guide assumes use on a PC. For mobile use, see *Introductions to Smart Care on Mobile*.
- Service availability depends on your warranty, country/region, and language.

### *Use live chat*

Live chat lets you quickly get help from a Lenovo expert for simple hardware or software issues. You can share attachments or your screen.

Step 1. Open Lenovo Vantage.

Step 2. Select **Smart Care** in the sidebar.

Step 3. Select **Live chat** .

Step 4. Follow the instructions to enter your contact information.

Step 5. Select **Submit** to start a chat session.

### *Call support*

For complex issues (e.g., fan or OS problems), you can request immediate support during business hours or schedule a callback.

Step 1. Open Lenovo Vantage.

Step 2. Select **Smart Care** in the sidebar.

Step 3. Select (**Call support**).

Step 4. Enter your details (phone number, preferred language, etc.).

Step 5. Select **Submit** to initiate the call or schedule a callback.

*Explore support*

Explore Support is a self-service resource pool containing user guides, popular articles, videos, and troubleshooting tools.

Step 1. Open Lenovo Vantage.

Step 2. Select **Smart Care** in the sidebar.

Step 3. Scroll down to the Explore Support section.

Step 4. Browse or search topics to find solutions and learn about your product.

*Contact customer services*

Contact Customer Services is the central entry point for all support options, including chat, call, callback scheduling, ticket submission, repair status checks, and warranty management.

Step 1. Open Lenovo Vantage.

Step 2. Click **Smart Care** in the sidebar.

Step 3. Scroll down to Contact Customer Services.

Step 4. Follow the on-screen instructions to access the specific service you need.

*Share a device snapshot*

The Device Snapshot tool captures a snapshot of your system information (BIOS, OS version, driver details) to assist support experts with diagnostics or repair.

Step 1. Open Lenovo Vantage.

Step 2. Select **Smart Care** in the sidebar.

Step 3. Scroll down to the bottom of the page.

Step 4. Select **Device Snapshot**.

Step 5. Save or share the generated report as an attachment with Lenovo support.

# Chapter 3. Firmware setup

When you power on your PC, a series of instructions are executed to initialize devices, identify a boot device, and locate a program called the bootloader. The bootloader then searches for the operating system installed on your PC and transfers control to it. Once the operating system has started, your PC is ready for use.

These instructions are stored on a flash memory chip located on the PC's system board. The flash memory chip and the instructions it contains are collectively referred to as the PC's firmware.

Generally, firmware code executes automatically without user intervention. However, some configurations remain firmware-related, such as setting a password for the PC’s mass storage device or enabling a specific feature of an integrated device. When users need to perform these operations, they can do so through an interface called the firmware setup utility.

## Firmware setup program

Lenovo PCs typically include a setup program in the firmware that allows you to:

- View information about your PC and its devices
- Change device settings
- Change the order of boot devices
- Set passwords for the firmware and the mass storage device

**Note:** You should rarely need to use the setup program for your daily PC usage. To view device information, you can use the utilities provided by the operating system or applications provided by Lenovo (Lenovo Vantage or Lenovo PC Manager). You can use the Novo button menu to temporarily change the order of boot devices.

There are several ways to open the setup program:

- Utilize the Advanced startup feature of the Windows operating system
- Use the Novo button menu
- Start or restart your PC and press an interrupt key (F1 or F2)

**Related topics**

“Novo button hole” on page 9

## Set passwords in the firmware setup utility

You can set passwords in the firmware setup utility to secure access to the utility program or the mass storage device.

## Password types

You can set various types of passwords in the firmware setup utility.

| Password type | Pre-requisite | Usage |
|---|---|---|
| Administrator password | No | You must enter it to start the setup utility. |
| User password | The administrator password must be set. | You can use the user password to start the setup utility. |


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| Password type | Pre-requisite | Usage |
|---|---|---|
| Master hard disk password | No | You must enter it to start the operating system. |
| User hard disk password | The master hard disk password must be set. | You can use the user hard disk password to start the operating system. |

**Note:** If you start the setup utility using the user password, you can only change a few settings.

## Set administrator password

You set the administrator password to prevent unauthorized access to the firmware setup utility.

**Attention:** If you forget the administrator password, a Lenovo authorized service personnel cannot reset your password. You must take your computer to a Lenovo authorized service personnel to have the system board replaced. Proof of purchase is required and a fee will be charged for parts and service.

Step 1. Open the firmware setup utility.

Step 2. Select **Security → Set Administrator Password** and press Enter.

Step 3. Enter a password string that contains only letters and numbers and then press Enter.

Step 4. Enter the password again and press Enter.

Step 5. Select **Exit → Exit Saving Changes**.

Next time you start the computer, you must enter the administrator password to open the setup utility. If **Power on Password** is enabled, you must enter the administrator password or the user password to start the computer.

## Change or remove administrator password

Only the administrator can change or remove the administrator password.

Step 1. Open the firmware setup utility using the administrator password.

Step 2. Select **Security → Set Administrator Password** and press Enter.

Step 3. Enter the current password.

Step 4. In the **Enter New Password** text box, enter the new password.

Step 5. In the **Confirm New Password** text box, enter the new password again.

**Note:** If you want to remove the password, press Enter in both text boxes without entering any character.

Step 6. Select **Exit → Exit Saving Changes**.

If you remove the administrator password, the user password is also removed.

## Set user password

You must set the administrator password before you can set the user password.

The administrator of the setup utility might need to set a user password for use by others.

Step 1. Open the firmware setup utility using the administrator password.

Step 2. Select **Security → Set User Password** and press Enter.

Step 3. Enter a password string that contains only letters and numbers and then press Enter.
The user password must be different from the administrator password.

Step 4. Enter the password again and press Enter.

Step 5. Select **Exit → Exit Saving Changes**.

## Enable power-on password

If the administrator password has been set, you can enable power-on password to enforce greater security.

Step 1. Open the firmware setup utility.

Step 2. Select **Security → Power on Password** and press Enter.

**Note:** The administrator password must be set in advance.

Step 3. Change the setting to **Enabled**.

Step 4. Select **Exit → Exit Saving Changes**.

If power-on password is enabled, a prompt appears on the screen every time you turn on the computer. You must enter the administrator or user password to start the computer.

## Set passwords for the mass storage device

You can set a hard disk password in the setup utility to secure access to your data storage on the PC's mass storage device.

**Attention:** Be extremely careful when setting a hard disk password. If you forget the hard disk password, a Lenovo authorized service personnel cannot reset your password or recover data from the hard disk. You must take your computer to a Lenovo authorized service personnel to have the hard disk drive replaced. Proof of purchase is required and a fee will be charged for parts and service.

Step 1. Open the firmware setup utility.

Step 2. Select **Security → Set Hard Disk Password** and press Enter.

**Note:** If you start the setup utility using the user password, you cannot set hard disk password.

Step 3. Follow on-screen instructions to set both master and user passwords.

**Note:** The master and user hard disk passwords must be set at the same time.

Step 4. Select **Exit → Exit Saving Changes**.

If the hard disk password is set, you must provide the correct password to start the operating system.

## Change or remove passwords for the mass storage device

Step 1. Open the firmware setup utility.

Step 2. Select **Security**.

Step 3. Change or remove the hard disk password.

To change or remove master password, select **Change Master Password** and press Enter.

**Note:** If you remove the master hard disk password, the user hard disk password is also removed.

To change user password, select **Change User Password** and press Enter.

**Note:** The user hard disk password cannot be removed separately.

Step 4. Select **Exit → Exit Saving Changes**.

# Chapter 4. PC and accessibility

PCs are powerful general-purpose computing devices that many individuals rely on for accessing information, connecting with friends, pursuing education, conducting research, and completing work tasks. This reliance extends to individuals with vision, hearing, cognitive, or mobility impairments, as well as to those whose abilities may decline due to illness or aging.

This chapter explores the accessibility features available on your Lenovo PC, including both hardware components and those offered by the pre-installed operating system. By gaining a comprehensive understanding of the available accessibility features and how to activate and configure them, you can enhance your PC's usability for individuals with disabilities.

## Accessibility features of the PC hardware

Lenovo PCs are designed with accessibility in mind. Throughout the design process, special considerations are prioritized for individuals with disabilities and best industry practices are implemented in hardware design.

## USB connectors for connecting assistive technology devices

Several types of assistive technology devices are available on the market that can be connected to a PC to enhance its accessibility. For example, a refreshable braille display is an assistive technology device that enables individuals who are both deaf and blind to use a PC. When connected to a PC, a refreshable braille display can work in conjunction with a compatible screen reader to provide tactile output in braille characters. Blind individuals who have been trained to read braille can run their fingers over the display to comprehend the information presented on the PC.

Many assistive technology devices utilize USB technology for connectivity. Most Lenovo PCs are equipped with at least one USB connector that adheres to the relevant USB specifications and is backward compatible. A Lenovo PC may feature a USB Standard-A connector, a USB Type-C connector, or both. If the plug type of the assistive technology device does not match the USB connector on your PC, you can easily purchase and use a USB adapter to resolve the issue.

## Keyboard accessibility

The keyboard serves as the primary input device for many PC users. Lenovo keyboards, whether integrated or supplied separately with the PC, are designed and manufactured with accessibility in mind. This section highlights the accessibility features of Lenovo keyboards that benefit all users, including those with disabilities.

### keyboard layout

The alphabetic keys on a Lenovo keyboard are arranged in a QWERTY layout, which is standard for input devices featuring alphabetic keys. The F and J keys have bumps that make them tactilely distinguishable from other keys. This feature serves as an orientation aid for skilled typists, allowing them to rest their index fingers without looking at the keys. Some Lenovo keyboards include a separate numeric keypad. The numeric keys are organized in four rows and three columns, arranging in ascending order from left to right and bottom to top. Additionally, the 5 key features a bump to make it tactilely distinguishable.

### Standard modifier keys

Lenovo keyboards are equipped with standard modifier keys for PCs, including:

the alt key


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the ctrl key

the shift key

the Windows logo key

These keys are extensively used as the modifier key for shortcuts by the operating system and other applications.

### The tab key

The tab key is located in the leftmost column of the keyboard. For operating systems, applications, and web documents that are designed with accessibility in mind, users can press the tab key and alt + tab (in reverse order) to cycle through the interactive elements.

### Hotkeys

Many Lenovo keyboards feature hotkeys in the top row, offering convenient access to frequently used settings.

### The fn key and the fnlock

The fn key is a Lenovo-defined modifier key. It can be used with the top-row dual-function keys to switch their functionalities. It can also be used with several other keys to access Lenovo defined settings.

The fnlock is a switch that can be turned on and off by pressing fn + esc. Instead of holding down the fn key to switch the functionality of dual-functionkeys, you can turn on fnlock. This feature allows users to access both hotkey and function key functionalities without the need to press two keys simultaneously.

### Keyboard backlight

Many Lenovo keyboards are equipped with backlights to help you use the keyboard in dark lighting conditions. The backlights can be controlled by pressing fn + Space.

## Biometric devices

Some Lenovo PCs are equipped with biometric devices that facilitate easy and secure identity authentication. If your PC includes an IR LED and an IR camera, you can enable facial recognition in Windows 11. Additionally, you can use your fingerprint for authentication on PCs with a fingerprint reader. Biometric identity authentication can be particularly beneficial for users who find it difficult typing passwords.

**Note:** When biometric devices are used for device authentication, they are not the only available method for this purpose. If biometric authentication fails, you can use a password or PIN to sign in to Windows.

## Accessibility features of Windows 11

An operating system is a crucial piece of software installed on a PC. It plays a vital role in the PC's basic functionality by providing a user interface, various tools for system management, and a foundation upon which additional specialized applications can be installed.

Microsoft's Windows 11 is a modern operating system that comes preinstalled on many Lenovo PCs. It offers a rich set of accessibility features designed for individuals with diverse disabilities. This section outlines the accessibility features available in Windows 11, explains how to activate them, and discusses the benefits they provide.

## Configuring accessibility features in the Settings app

Windows 11 provides a centralized location within the Settings app for activating and configuring all accessibility features. You can access this section by selecting **Start → Settings → Accessibility**. Additionally, the keyboard shortcut Windows logo key + U provides quick access to this interface.

## Narrator

Narrator is Windows 11's built-in screen-reading application. It can read screen content aloud to users and also accept input from the keyboard, enabling individuals with visual impairments to navigate effectively within Windows 11, use applications, and browse the web.

### Start and stop Narrator

You can start and stop Narrator by selecting the toggle button for Narrator in the centralized Accessibility section of the Settings app. Additionally, the keyboard shortcut Windows logo key + ctrl + enter provides quick access to both the start and stop functions.

### Customize Narrator

Narrator offers a variety of controls that allow you to customize it to suit your preferences. For example, you can install additional text-to-speech voices and select your preferred voice for Narrator. You also have the option to adjust the verbosity level to choose the type of content to be read. All Narrator settings are conveniently located in the centralized Accessibility section of the Settings app. Additionally, the keyboard shortcut Windows logo key + ctrl + N offers quick access to these settings.

## Adjusting text sizes, applying a high-contrast theme, and using Magnifier

For individuals who find it difficult to see text clearly on the screen, Windows offers the options of adjusting text sizes, applying a high-contrast theme, and using Magnifier.

### Adjust text sizes

If you find the text on the screen is too small to read, you can scale up the size of text displayed by Windows and other applications.

Step 1. Select **Start → Settings → Accessibility → Text size**.

Step 2. Use the slider and the preview pane to select a size that fits your need and then select **Apply**.

### Apply a high-contrast theme

For individuals with low vision, Windows 11 offers contrast themes that enhance text readability by using a background color that sharply contrasts with the text.

Step 1. Select **Start → Settings → Accessibility → Contrast themes**.

Step 2. In the dropdown list for **Contrast themes**, select one option and then select **Apply**.

To exit a contrast theme, select **None** from the dropdown list. The keyboard shortcut for turning on and off contrast theme is left alt + left shift + prt sc.

### Enable Magnifier

You can enable Windows 11 Magnifier to enlarge specific areas or the entire screen, making text and images easier to see.

Step 1. Select **Start → Settings → Accessibility → Magnifier**.

Step 2. Select the toggle to enable or disable Magnifier.

The keyboard shortcuts for enabling and disabling Magnifier are Windows logo key + Plus sign (+) and Windows logo key + esc, respectively. When Magnifier is enabled, you can use Windows logo key + plus sign (+) and minus sign (-) to zoom in and zoom out.

## Sticky Keys

Microsoft Windows offers numerous keyboard shortcuts that require users to hold down a modifier key (such as shift, ctrl, alt, or the Windows logo key) before pressing one or more additional keys. While these shortcuts provide significant convenience for many users, they can pose accessibility challenges for individuals who have difficulty holding down multiple keys at the same time.

Sticky Keys is an accessibility feature in Windows that, when enabled, allows users to press keys in sequence to activate shortcut functions. For example, instead of holding down the ctrl key and the C key simultaneously, users can press each key individually to copy text to the clipboard.

To enable Sticky Keys, press the shift key five times in quick succession. When the confirmation dialog box appears, select **Yes** to disable Sticky Keys, press the shift key five times again and choose **No** when prompted.

## Accessible user documentation

Documentation containing instructions for the use of the product, including its accessibility features, is available in accessible formats (such as HTML and PDF) on the Lenovo Support Website. When creating documentation, a series of industry standards and best practices are followed to ensure that the content is useful to as broad an audience as possible. Additionally, automated testing tools are employed to identify issues that may hinder the accessibility of information. These issues are addressed to the extent permitted by commonly available technologies.

## Accessibility features of user documentation

By adhering to industry standards and best practices, Lenovo documentation offers numerous features that facilitate the perception and understanding of the content. Additionally, several of these features are specifically designed to ensure that users of assistive technology devices can access information comparable to that available to those who do not rely on such devices.

### Perceivable content

Text content is presented using popular and easy-to-read fonts. Text colors are in high contrast with the background. Non-text elements, such as graphics and videos that convey important information, are accompanied by alternative text descriptions. Users with visual impairments can utilize screen readers to access information comparable to that available to sighted users.

### Understandable content

The documentation is presented visually in a well-structured and simple layout. It also includes hidden tags or other markup information that store the content's structure, which can be utilized programmatically by assistive technologies to convey this structure to users.

### Operable content

Documentation includes industry-standard tags for sectioning and interactive elements, such as titles, headings, various structural components, links, buttons, and input fields. Screen reader users can utilize standard modifier keys on the keyboard to effectively navigate and interact with the documentation.

## Testing documentation accessibility

Before being officially released, Lenovo documentation undergoes testing with automated tools to evaluate its accessibility. HTML documents are assessed for compliance with the success criteria outlined in the *Web Content Accessibility Guidelines* (WCAG), a widely accepted set of standards designed to enhance web document accessibility. PDF documents are evaluated for accessibility using the accessibility checker in Adobe Acrobat for the same purpose. Automated testing tools help identify elements within a document that may present challenges when rendered by screen readers and other assistive technology devices. Accessibility issues identified by these automated tools are subsequently analyzed manually and corrected as needed.

# Chapter 5. Warranty, help, and support

Given the complexity and open nature of PCs, it is not uncommon to encounter issues during daily use. Lenovo PCs come with a limited warranty. During the warranty period, if you experience problems caused by defects in workmanship, you may contact Lenovo for warranty service.

Most other issues are often related to software settings that prevent the PC from functioning as expected. This chapter provides information about warranty service, as well as help and support resources you can use to resolve issues yourself or receive assistance from Lenovo, the operating system manufactuer, or other users like you.

## Lenovo Limited Warranty

Lenovo PC products come with a limited warranty. The general terms and conditions, along with country- or region-specific warranty provisions, are detailed in the Lenovo Limited Warranty document. If you experience issues during the warranty period due to defects in materials or workmanship, you can contact Lenovo to receive warranty service, which is available through one of the following service types.

- Customer Replaceable Unit (CRU) Service
- On-site Service
- Courior or Depot Service
- Customer Carry-in Service
- Mail-in Service
- Customer Two-Way Mail-in Service

**Note:** Not all service types are available for every PC model and availability varies by geographic location.

## Customer Replaceable Unit Service

Customer Replaceable Unit Service is a type of warranty service offered by Lenovo. One or more components of a Lenovo PC may be designated by Lenovo as Customer Replaceable Units (CRUs) based on their ease of replacement. During the warranty period, if a part designated by Lenovo as a Customer Replaceable Unit becomes defective, and if this service is available for your model and geographic location, the warranty service may be performed using this service type.

If you intend to install a CRU, Lenovo will ship the CRU to you. 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 document.

A Lenovo computer may contain the following types of CRUs:

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

## CRUs for your product model

The table below lists the CRUs and CRU types that are defined for your product model.

**Note:** Laws and regulations in certain countries or regions are enacted to protect customers' rights to independently service a product both during and after the warranty period. The designation of CRUs for your product model is intended solely for performing warranty service and does not affect customers' statutory rights. Parts not classified as CRUs are not eligible for CRU service but may still be replaceable by customers in accordance with applicable laws and regulations.

| Part | Self-service CRU | Optional-service CRU |
| --- | --- | --- |
| ac power adapter | X | |

**Notes:**

- CRU replacement instruction is provided in one or more of the following publications and are available from Lenovo at any time upon your request.

  the product *User Guide*

  the printed publications that came with the product
- Replacement of any parts not listed above, including the built-in rechargeable battery, should be done by a qualified repair technician or by ensuring that you carefully follow all instructions provided by Lenovo. You can also find Lenovo-authorized repair facilities by going to https://support.lenovo.com/partnerlocation for more information.

## Lenovo Support Website

The Lenovo Support Website offers tools and resources that allow you to check your warranty status, purchase parts and services, and troubleshoot issues independently. It also provides links to access additional help and support from Lenovo.

To access tools and resources relevant to your PC product, select **PC** from the product categories on the support homepage. Then, navigate to your product model's support page by entering the product name, choosing from a list of models, or allowing the website to automatically detect your product.

## Lenovo Support Community

The Lenovo Support Community is an online forum organized into a series of subcommunities dedicated to sub-brands and specific product categories. It enables customers to share knowledge and discuss issues they may be experiencing. Should you encounter an issue with your product, you can search for a solution or post a question in the Community. Using an AI translation solution, Lenovo Community content can be created and viewed in twenty-one different languages, with the number potentially increasing.

The Community homepage offers intuitive navigation. You can select the product group, then narrow down to the subcategory and product name that matches your device. Viewing and searching content does not require an account. A one-time guest post is possible without registration; however, creating a Community account with your Lenovo ID provides full access and a better experience. Before posting, we recommend reviewing the Community Guidelines, which explain how to search, post, and maintain respectful interactions.

**Note:** Please note that while Lenovo representatives may participate in discussions by responding to questions, the Community is primarily a peer to peer Community and not an official support channel. Most solutions are provided by users from around the world. As products and services vary across countries and regions, we advise that customers approach solutions shared on the forum with caution, carefully evaluating and validating them for their product and symptoms.

## Support from the operating system manufacturer

Practically speaking, you cannot use a PC without its operating system. The operating system's manufacturer provides the official and usually the most comprehensive information about it.

Windows 11 is an operating system developed by Microsoft®. If you encounter any issues or would like to learn more about Windows 11, you can visit the official Microsoft support website for Windows.

## Frequently asked questions

### What should I do if my PC won’t start

Try any of the following solutions to resolve the issue.

- Disconnect all external devices, including the USB drive, portable hard disk, printer, docking station, and even the mouse and keyboard, because a malfunctioning external device may prevent the PC from starting up.
- Change a compliant power adapter to connect your PC to a working electrical outlet.
- Use the Windows startup repair tool if you can still see the Windows logo.
  1. Start your PC and wait for the Windows logo (or other logos) to appear.
  2. As soon as the logo appears, press and hold the power button until the PC shuts down.
  3. Turn your PC on again and repeat the previous step.
  4. Turn your PC on again. Windows should display the **Automatic Repair** screen.
  5. Select **Advanced options → Startup Repair**.
- Use a restore point recorded on your PC or use a recovery drive to restore Windows.

### What should I do if my PC gets stuck in sleep or hibernate mode

Try any of the following solutions to resolve the issue.

- Reset your graphics driver by pressing Windows logo key + Ctrl + Shift + B.
- Restart your PC.
  1. Press and hold the power button until your PC shuts down completely.
  2. Wait about 15 seconds.
  3. Press the power button to start your PC.
- Identify the root cause of the problem after restarting your PC.
  - Allow your desired mouse to wake up your PC.

1. Type `device manager` in the Windows search box and then press enter.
2. Under **Mice and other pointing devices**, select your desired mouse.
3. Under **Power Management**, check **Allow this device to wake the computer**.
4. Select **OK**.

– Disable fast startup because it may conflict with sleep or hibernate mode.

1. Type `control panel` in the Windows search box and then press enter.
2. Select **Hardware and Sound** → **Power Options** → **Choose what the power button does** → **Change settings that are currently unavailable**.
3. Uncheck **Turn on fast startup (recommended)**.
4. Select **Save changes**.

– Disable wake timers because they may cause system instability or a black screen.

1. Type `control panel` in the Windows search box and then press enter.
2. Select **Hardware and Sound** → **Power Options** → **Change when the computer sleeps** → **Change advanced power settings**.
3. Select **Sleep** → **Allow wake timers**.
4. Next to **On battery** and **Plugged in**, disable wake timers.
5. Select **Apply** → **OK**.

## What should I do if my PC is plugged in but not charging

Try any of the following solutions to resolve the issue.

- Make sure the power adapter is plugged in securely to both the wall outlet and your PC.
- Make sure the power adapter and the connector are not damaged. Plug the power adapter into a different wall outlet.
- Ensure that you use the power adapter with proper wattage. Low-wattage power adapters might cause a battery charging problem.
- Restart your PC.
- Roll back the battery driver.
  1. Type `device manager` in the Windows search box and then press enter.
  2. Under **Batteries**, select **Microsoft AC Adapter** or **Microsoft ACPI-Compliant Control Method Battery**.
  3. Select the **Driver** tab and then select **Roll Back Driver**.
  4. Select **Yes** to roll back your battery driver and restart your PC.

     **Note:** If the **Roll Back Driver** option is unavailable, Windows does not have a previous driver to roll back to. In this scenario, you can try updating or uninstalling the battery driver in the **Driver** tab.
- Check the battery charging mode in Lenovo Vantage or Legion Space. In certain modes, charging will stop when the battery reaches a specific threshold to extend battery life.
- Update the firmware setup utility in Lenovo Vantage or Legion Space.

## What should I do if the battery drains fast

Try any of the following solutions to resolve the issue.

- Avoid your PC in high heat or freezing cold because extreme temperatures affect battery performance.
- Disconnect all unnecessary external devices.

- Restrict background activities of high-power-consuming apps.
  1. Select **Settings** → **System** → **Power & battery** → **Battery usage**.
  2. Under **Battery usage per app**, you can check the high-power-consuming apps. Then limit the background activity of a desired app by selecting **More options** ••• → **Manage background activity**.
  3. Under **Background app permissions**, select **Power optimized (recommended)** or **Never** to manage the background activity for the app.
- Disable all unnecessary startup apps.
  1. Select **Settings** → **Apps** → **Startup**.
  2. Disable all unnecessary startup apps.
- Adjust Power & battery settings.
  1. Select **Settings** → **System** → **Power & battery**.
  2. In **Screen, sleep and hibernate timeouts** → **On battery**, set the **Turn my screen off after** and **Make my device sleep after** timeouts shorter.
  3. In **Power Mode** → **On battery**, select **Best Power Efficiency**.
- Decrease the screen brightness using F5 (or fn + F5) or in **Settings** → **System** → **Display** → **Brightness**.
- Decrease or turn off the keyboard backlight using fn + Space or fn + down arrow key.

## How to fix blue screen errors

1. Restart your PC.
2. Type `get help` in the Windows search box and then press enter.
3. In the search box of the Get Help app, type `troubleshoot BSOD error`.
4. Follow the guided walkthrough.

## What should I do if my screen flickers

Try any of the following solutions to resolve the issue.

- Reset your graphics driver by pressing Windows logo key + Ctrl + Shift + B.
- Restart your PC.
- Check whether Task Manager flickers by pressing Ctrl + Alt + Delete or Ctrl + Shift + Esc.
  - If Task Manager also flickers, roll back your display driver.
    1. Type `device manager` in the Windows search box and then press enter.
    2. Under **Display adapters**, select a display adapter.
    3. Select the **Driver** tab and then select **Roll Back Driver**.
    4. Select **Yes** to roll back your display driver and restart your PC.

       **Note:** If the **Roll Back Driver** option is unavailable, Windows does not have a previous driver to roll back to. In this scenario, you can try updating or uninstalling your display driver in the **Driver** tab.
  - If Task Manager does not flicker, update or uninstall incompatible apps that are probably causing the problem.
    1. Keep all apps updated from the Microsoft Store or the manufacturer's site.
    2. Check whether the screen flickers in a specific app. If yes, uninstall the app.

## Why can't I adjust the display brightness

If you are unable to adjust the display brightness, it may be due to adaptive brightness being enabled or an outdated display driver. You can try the following solutions to troubleshoot and fix the issue:

- Disable adaptive brightness:
  1. Go to **Start** → **Settings** → **System** → **Display**.
  2. Under **Brightness**, select the switch for **Change brightness automatically when lighting changes** to turn it off.
  3. Under **Brightness**, set the **Change brightness based on content** option to **Off**.
- Update the display driver:
  1. Type `Device Manager` in the Windows search box and then press enter.
  2. Select the arrow icon > next to **Display adapters** to expand the section.
  3. Right-click your display adapter, select **Update driver**, and follow the on-screen instructions.

## What should I do if my computer responds slowly

Try the following solutions to troubleshoot and fix the problem:

- Restart your computer.
- Delete temporary files and free up more drive space on your computer. For details, go to https://support.microsoft.com/disk_cleanup.
- Remove unnecessary programs from the startup programs:
  1. Open the **Start** menu, and then select **Settings** → **Apps** → **Startup**.
  2. In the **Startup** section, turn off the switch of programs that are not necessary to start automatically when you log in to Windows.
- Uninstall unnecessary or unused software.
- Scan for viruses and malware using the anti-virus software that is installed on your computer.
- Update the Windows operating system.

  Get the latest updates from the Windows Update. For details, go to https://support.microsoft.com/windows_update.
- Recover your Windows operating system.

  Depending on your specific situation, you can choose from different recovery options. For details, go to https://support.microsoft.com/windows_recovery.
- Repair missing or corrupted system files using the System File Checker tool. For details, go to https://support.microsoft.com/system_file_checker.

## What should I do if my camera can't be launched or found

Try the following solutions to troubleshoot and fix the issue:

- Ensure that your camera is not disconnected or covered:
  - If you are using an external camera, ensure that you have connected it to a working USB connector on your computer.
  - If you are using an integrated camera, slide the camera shutter or camera switch to the on position.
- If you are using an integrated camera, it might be disabled. Go to **Start** menu, and select **Settings** → **Bluetooth & devices** → **Camera** to enable the integrated camera.
- The apps you are using might not have access to your camera. To authorize access to your camera:
  1. Open the **Start** menu, and select **Settings** → **Privacy & security** → **Camera**.

2. Turn on **Camera access** switch and **Let apps access your camera** switch.

- Your antivirus software settings might block access to your camera. Go to your antivirus software settings and unblock the access.
- Your camera driver might be outdated. To update the camera driver:
  1. Type `Device Manager` in the Windows search box and then press Enter.
  2. Select **Device Manager** from the list of results. The Device Manager window opens.
  3. Select arrow icon > next to **Camera** to expand the section.
  4. Right-click the camera that you would like to update.
  5. Select **Update driver** and follow the on-screen instructions.
- Run the automated camera troubleshooter in the Get Help app:
  1. Open the **Start** menu, and select **Settings → Privacy & security → Camera**.
  2. Scroll down to the bottom. Select **Get help** and follow the on-screen instructions.

## What should I do if the audio does not work

If you encounter any audio problems, such as no audio or malfunctioning audio, try the following solutions to troubleshoot and fix the issue:

- Go to **Start → Settings → System → Sound** to verify that the sound output or input devices are selected correctly, and the volume is properly set.
- Run the audio troubleshooter:
  1. Go to **Start → Settings → System → Sound**.
  2. Under **Advanced**, find **Troubleshoot common sound problems**, select **Output devices** or **Input devices**, and follow the on-screen instructions to troubleshoot and fix the problem.

For more solutions to audio problems, go to https://support.lenovo.com/solutions/ht501860.

## What should I do if my keyboard types wrong characters

- Ensure that the keyboard layout settings are correct. Take the following steps:
  1. Go to **Settings → Time & language → Language & region**.
  2. Under **Preferred languages**, select the three horizontal dots next to your primary language preference and select **Language options**.
  3. Under **Installed keyboards**, check the keyboard layout and add the corresponding keyboard if you're not using the right one.
- Sometimes the keyboard types wrong characters because you may have enabled the feature of auto-correcting misspelled words. Take the following steps to disable this feature:
  1. Go to **Settings → Time & language → Typing**.
  2. Select the switch for **Autocorrect misspelled words** to turn it off.
- Ensure that the keyboard driver is in good status. Take the following steps:
  1. Type `Device Manager` in the Windows search box and then press Enter.
  2. Select **Device Manager** from the list of results. The Device Manager window opens.
  3. Select arrow icon > next to **Keyboard** to expand the section.
  4. Double-click the keyboard that is not working and check the status.
  5. If it is not working properly, select **Driver** from the tabs on the top and select **Uninstall device** to uninstall the device.

6. Apply Windows Update to install the latest driver automatically.

## What should I do if my touchpad or trackpad does not respond

If your touchpad does not respond, it might be because you have disabled the touchpad or your touchpad driver is out-of-date or malfunctioning. To solve the problem, you can try the following solutions.

- Enable the touchpad:
  1. Go to **Start** → **Settings** → **Bluetooth & devices** → **Touchpad**.
  2. Turn on the **Touchpad** toggle.

     **Note:** Alternatively, you can also press the touchpad hotkey or the key combination fn + M to enable or disable the touchpad.
- Update the touchpad driver:
  1. Type `Device Manager` in the Windows search box and then press enter.
  2. Select the arrow icon > next to **Human Interface Devices** to expand the section.
  3. Right-click the touchpad, select **Update driver**, and follow the on-screen instructions.
- If a touchpad problem occurs after a recent driver update, follow the instructions below to roll back to the previously installed driver:
  1. Type `Device Manager` in the Windows search box and then press enter.
  2. Select the arrow icon > next to **Human Interface Devices** to expand the section.
  3. Right-click the touchpad, and select **Properties**.
  4. Under **Driver**, select **Roll Back Driver** and follow the on-screen instructions.

## What should I do if my touchpad or trackpad responds slowly

If your touchpad is not responding as quickly or accurately as you expect, you can try the following solutions.

- Ensure the touchpad surface is clean, dry, and free from dirt or oils. Gently clean it with a soft, lint-free cloth.
- Disconnect any external mouse, keyboard or other USB devices. A faulty peripheral can sometimes cause cursor lag.
- Go to **Start** → **Settings** → **Bluetooth & devices** → **Touchpad** and then adjust the cursor speed.
- Update the touchpad driver:
  1. Type `Device Manager` in the Windows search box and then press enter.
  2. Select the arrow icon > next to **Human Interface Devices** to expand the section.
  3. Right-click **HID-compliant touch pad**, select **Update driver**, and follow the on-screen instructions.

## What should I do if my fan makes unusual noise

If your fan makes unusual noise, you can try the following solutions.

- Terminate power-consuming applications or processes that are not in use to reduce fan noise:
  1. Type `Task Manager` in the Windows search box and press enter.
  2. Terminate power-consuming applications or processes that are not in use.
- Adjust your computer operation mode in the pre-installed app Lenovo Vantage or Lenovo PC Manager or Lenovo Baiying or Legion Space. As a shortcut, you can also use the key combination fn + Q. For details, see "System operation modes" in this *User Guide*.

- Update the operating system or device drivers to the latest version.

## What should I do if I cannot connect to the network

If you're unable to access email, browse the web, or stream music, it's likely you're not connected to your network and can't access the internet. To solve the problem, you can try the following solutions.

- Check your network connection status:
  1. Select the quick setting area on the right side of the side bar.
  2. Make sure that Wi-Fi is turned on.
  3. Check if your network name shows **Connected** below it. If it displays a status other than **Connected**, select a Wi-Fi network you recognize from the list of available networks. Then, click on the network and attempt to connect.
- Check Airplane mode:
  1. Select **Start** → **Settings** → **Network & Internet** → **Airplane mode**.
  2. Ensure Airplane mode is turned off.
- Run automated diagnostics process:
  1. Right-click on the network icon on the right side of the task bar.
  2. Select **Diagnose network problems** and then follow the on-screen instructions.
- Forget and reconnect to the Wi-Fi network:
  1. Select **Start** → **Settings** → **Network & Internet** → **Wi-Fi** → **Manage known networks**.
  2. Select your Wi-Fi network and then select **Forget**.
  3. Reconnect to the network by selecting it and entering the password.
- Restart your modem and wireless router.

## What should I do if I cannot connect to Bluetooth

If you cannot connect to Bluetooth, try the following solutions one by one.

- Ensure Bluetooth is supported and enabled on both your computer and your Bluetooth device. To turn on Bluetooth on your computer, take the following steps:
  1. Select the quick settings area on the right side of the taskbar.
  2. In the Bluetooth quick setting, ensure that Bluetooth is turned on. If not, select the Bluetooth icon to turn it on.
- Restart your Bluetooth device.
- Ensure that your Bluetooth device is charged or has enough power.
- Ensure that your Bluetooth device is placed within the required Bluetooth connection distance range of your computer.
- Ensure that airplane mode is turned off on your computer. Take the following steps:
  1. Select the quick settings area on the right side of the taskbar.
  2. In the Airplane mode quick setting, ensure that Airplane mode is turned off. If not, select the Airplane mode icon to turn it off.

- Ensure that your Bluetooth device is not too close to other USB devices that are connected to your computer. Unshielded USB devices might interfere with Bluetooth connections.
- Remove your Bluetooth device, and then add it again:
  1. Select **Start** → **Settings** → **Bluetooth & devices** → **Devices**.
  2. Select **More options** of the Bluetooth device you are having the problem with.
  3. Select **Remove device** to remove the Bluetooth device.
  4. Select the quick settings area on the right side of the taskbar.

     **Note:** Ensure that the Bluetooth on both your computer and the Bluetooth device is turned on. Ensure that the device is discoverable.
  5. Select **Manage Bluetooth devices** (>) on the Bluetooth quick setting to expand the section.
  6. Select the device when it is displayed on the **New devices** list, and then follow the on-screen instructions.
- Run the Bluetooth troubleshooter:
  1. Select **Start** → **Settings** → **System** → **Troubleshoot** → **Other troubleshooters**.
  2. Locate the Bluetooth section, select **Run** and then follow the on-screen instructions.
- Uninstall the driver of the Bluetooth adapter. Windows will automatically install the latest driver.
  1. Type `Device Manager` in the Windows search box.
  2. Select **Device Manager** from the list of results. The Device Manager window opens.
  3. Select the arrow icon > next to **Bluetooth** to expand the section.
  4. Right-click the Bluetooth device you are having problem with, and then select **Uninstall device**.
  5. Confirm that you want to uninstall this device from your system in the Uninstall Device window, and then select **Uninstall**.
  6. After the driver is uninstalled, restart your computer. Windows will automatically install the latest driver.
  7. If Windows does not reinstall the driver automatically, open device manager and select **Scan for hardware changes** on the tool bar (the magnifying glass icon).

## How to reset my Windows password

If you have forgotten the password for your Windows account, you can try the following solutions.

- If you sign in to Windows with an email address, you have a Microsoft Account. You can reset your password online:
  1. Go to the Microsoft password reset page from any other device.
  2. Enter your Microsoft email address and follow the on-screen instructions.
  3. You will be asked to verify your identity using a security code sent to your alternate email address or phone number.
  4. Once reset, use your new password to sign in to your laptop.

     **Note:** An internet connection is required on your laptop for this to work.
- If you sign in with a username that does not use an email, you have a local account. Do the following to reset your password:
  1. Use a password reset hint:

On the Windows sign-in screen, select **Sign-in options** and then enter your password. If you see a **Password hint** displayed below the password field, it may help you remember your password.

**Note:** This feature is only available if you set up the hint in advance. You can see the option to set up a password hint when you create a local account password.

2. Use a previously created password reset disk:

   If you have created a password reset disk, you can connect it to a USB-compatible connector on your computer and then follow the on-screen instructions to reset your password.

## What should I do if my computer stops responding

Press and hold the power button until the computer turns off. Then restart the computer.

## What should I do if I spill liquid on the computer

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. Wait until you are certain that all the liquid is dry before turning on your computer.

   **CAUTION:**
   **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.**

## Why does my computer start automatically when I open the lid?

Your computer may have Flip to Start enabled. Many Lenovo notebook computers include a sensor that can detect the angle at which the lid is opened. When you open the lid, the sensor can detect this behavior. If Flip to Start is enabled, the computer will respond by starting up automatically.

If you don't like this feature, you can disable it. Flip to Start can be enabled and disabled in:

- Lenovo Vantage, Lenovo PC Manager or Lenovo Smart Engine
- Firmware Setup Utility

## How can I start my PC from another device?

You can open the Novo button menu, select **boot device**, and select a device to start your PC.

**Related topics**

"Novo button hole" on page 9

# 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

Record product information and problem details before you contact Lenovo.

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

**Note:** The product name and serial number can usually be found on the bottom of the computer, either printed on a label or etched on the cover.

## 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/supportphonelist.

**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, see “Warranty information” in the *Safety and Warranty Guide* that comes with your computer.

## 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. Notices and trademarks

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