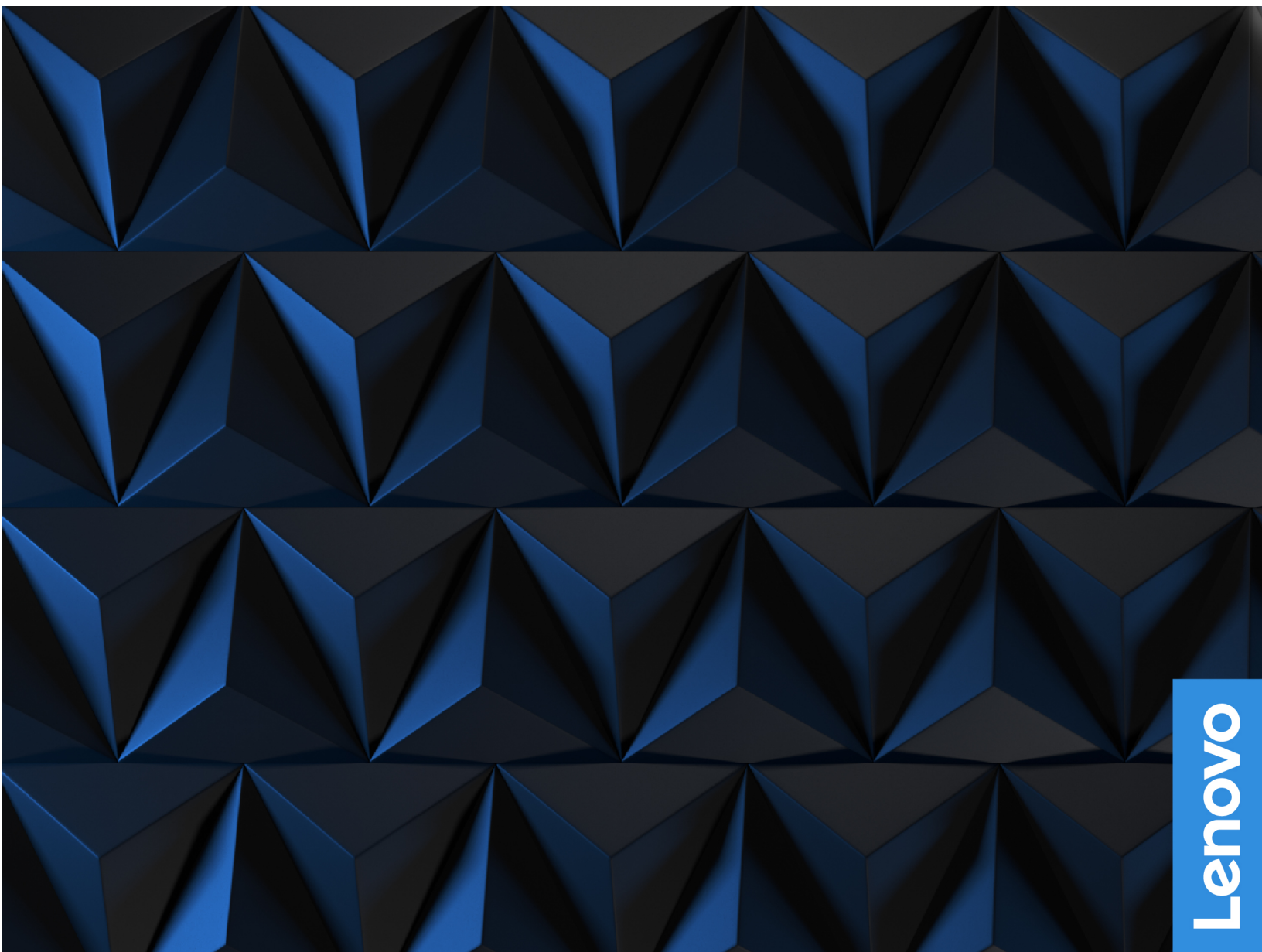


User Guide



Lenovo Legion S7 (16", 7)

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*

First Edition (March 2022)

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About this guide

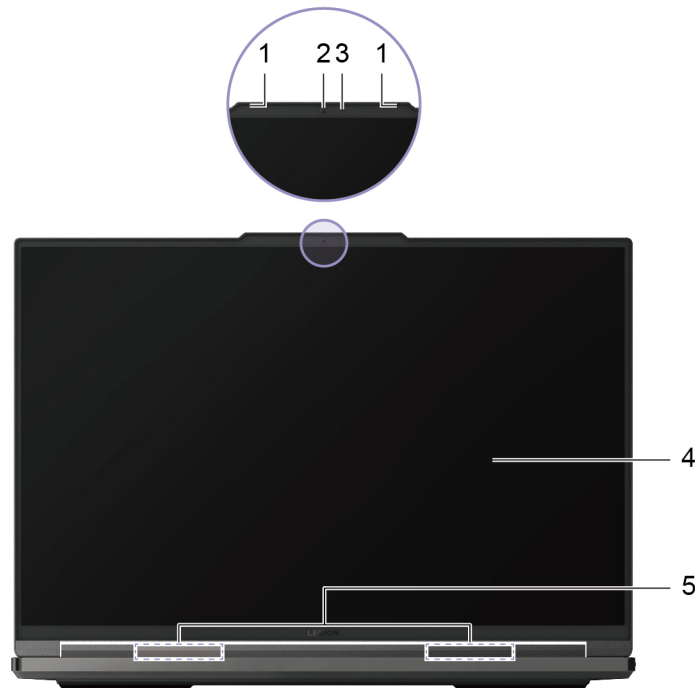
- This guide applies to Lenovo product model(s) listed below. Illustrations in this guide may look slightly different from your product model.

Model name	Machine type (MT)
Legion S7 16IAH7 Lenovo Legion S7 16IAH7	82TF
Legion S7 16ARHA7 Lenovo Legion S7 16ARHA7	82UG

- For further compliance information, refer to the *Generic Safety and Compliance Notices* at https://pcsupport.lenovo.com/docs/generic_notices.
- This guide may contain information about accessories, features, and software that are not available on all models.
- This guide contains instructions that are based on the Windows operating system. These instructions are not applicable if you install and use other operating systems.
- Microsoft® makes periodic feature changes to the Windows® operating system through Windows Update. As a result, the operating system related instructions may become outdated. Refer to Microsoft resources for the latest information.
- The content of the guide is subject to change without notice. To obtain the latest version, go to <https://support.lenovo.com>.

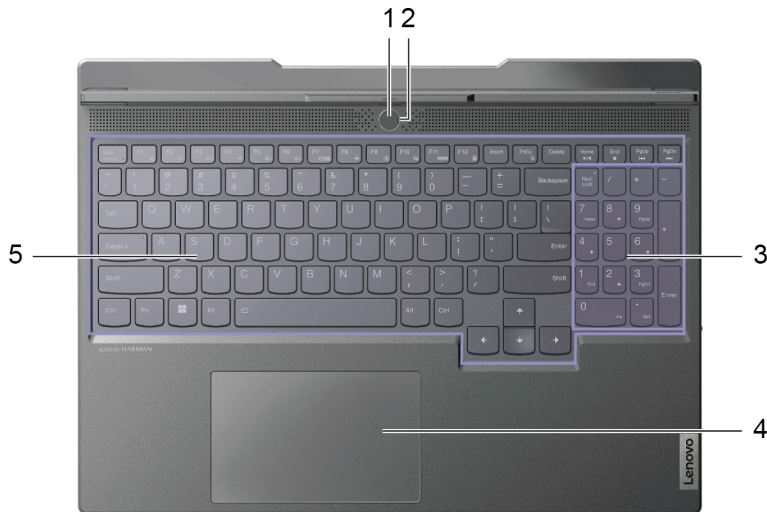
Chapter 1. Meet your computer

Front



1. Microphones	Capture or record sound and voice.
2. Camera	Capture still and moving images for taking photos, recording videos, and video conferencing.
3. Camera light	If the light is on, the camera is in use.
4. Screen	Display text, graphics, and videos.
5. Wireless antennas	Send and receive radio waves for the built-in wireless LAN (local area network) and Bluetooth module. Notes: <ul style="list-style-type: none">• The antennas are not visible from the outside of the computer.• If the location of the antennas is close to the user's body (< 20 cm), you can find the Specific Absorption Rate (SAR) values in the <i>Setup Guide</i> that comes with your computer.

Base



1. Power button/Fingerprint reader

- Press the button to turn on the computer or put the computer into sleep mode.
- Fingerprint reader is available on power button. Enroll and read your fingerprint for user authentication.

Note: You can turn on the computer by flipping open the LCD screen if Flip to Boot is enabled.

2. Power light

Indicate the power status of the computer. The color of the power light also reflects the currently activated operation mode. Refer to “Set operation mode” on page 16 for how to switch operation modes.

- Solid on: The computer is turned on.
 - White: in balance mode
 - Red: in performance mode
 - Blue: in quiet mode
 - Purple: in custom mode
- Blinking: The computer is in sleep mode.
- Off: The computer is turned off or in hibernation mode.

3. Numeric keypad

To enable or disable the numeric keypad, press the Num Lock key.

4. Touchpad

Perform finger touch and all the functions of a traditional mouse.

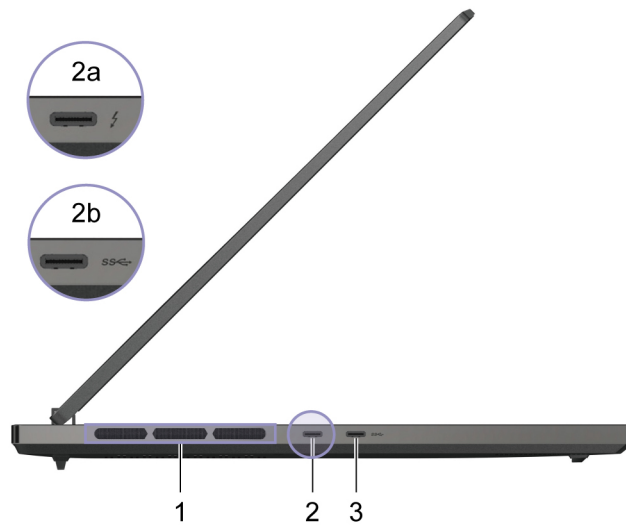
Note: The touchpad also supports multi-touch function.

5. Keyboard

Enter characters and interact with programs.

Note: The keyboard also includes hotkeys and function keys for changing settings and performing tasks quickly.

Left



1. Ventilation slots (outlet)

Maintain the outgoing airflow to dissipate internal heat.

Attention: Do not block the ventilation slots. Otherwise, the computer may overheat.

2. Thunderbolt™ 4 port/Multi-function USB port

This port varies by model and is either a Thunderbolt 4 (2a) or multi-function USB (2b) port. It utilizes the USB Type-C® connector and can be used for connecting:

- USB data devices
- Display devices.

Notes:

- A Thunderbolt 4 port can also be used for connecting Thunderbolt enabled devices.
- This port does not support video output when the computer is working in discrete graphics card only mode.
- This port also supports USB Power Delivery and can be used as a secondary power input connector. This port does not support USB Power Delivery when the computer battery capacity is 0%.

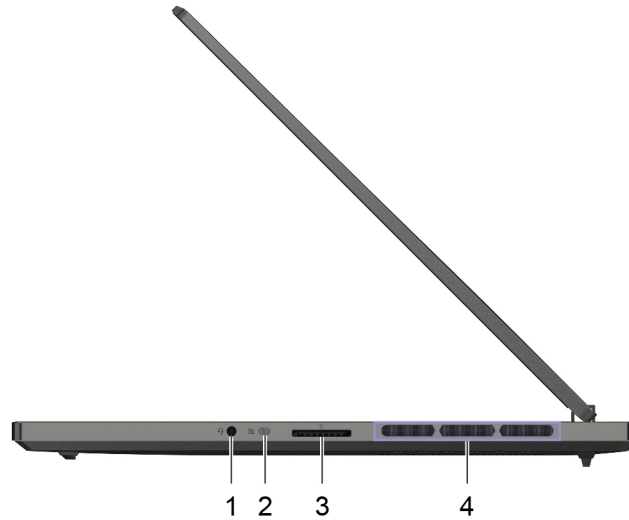
3. Multi-function USB port

This port utilizes the USB Type-C connector and can be used for:

- Connecting USB data devices.
- Connecting display devices.

Note: This port also supports USB Power Delivery and can be used as a secondary power input connector. This port does not support USB Power Delivery when the computer battery capacity is 0%

Right



1. Combo audio jack	Connect to headphones or headsets with a 3.5 mm (0.14 inch), 4-pole plug. Note: This jack does not support standalone external microphones. If you use headsets, choose one with a single plug.
2. Camera switch	Disable or re-enable the camera.
3. SD card slot	Insert an SD card or a MultiMediaCard (MMC) into the slot for data transfer or storage.
4. Ventilation slots (outlet)	Maintain the outgoing airflow to dissipate internal heat. Attention: Do not block the ventilation slots. Otherwise, the computer may overheat.

Rear

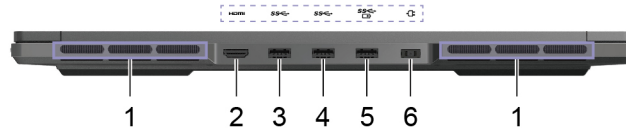


Figure 1. Legion S7 16IAH7 and Lenovo Legion S7 16IAH7

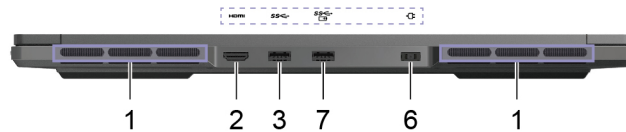
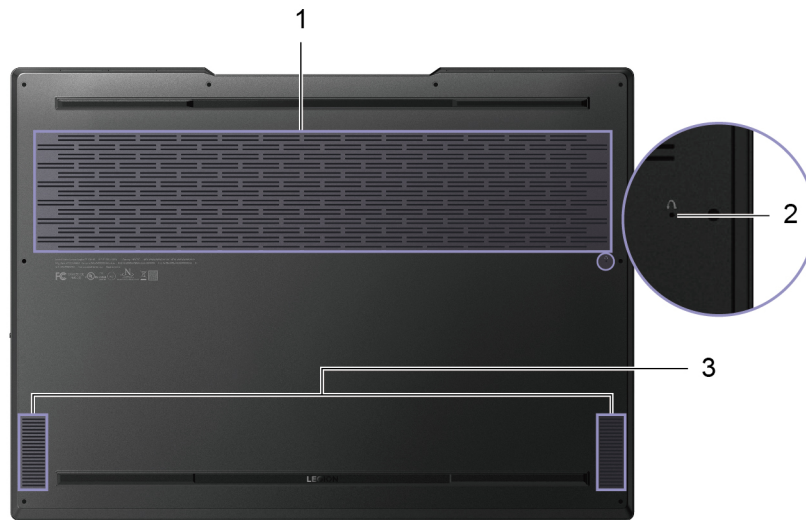


Figure 2. Legion S7 16ARHA7 and Lenovo Legion S7 16ARHA7

1. Ventilation slots (outlet)	Maintain the outgoing airflow to dissipate internal heat. Attention: Do not block the ventilation slots. Otherwise, the computer may overheat.
2. HDMI™ connector	Connect to a compatible digital audio device or video monitor, such as an HDTV.
3. USB 3.2 Gen 2 port	This port utilizes the USB Standard-A connector. Connect to a USB-compatible device, such as a USB keyboard, a USB mouse, a USB storage device, or a USB printer.
4. USB 3.2 Gen 1 port	This port utilizes the USB Standard-A connector. Connect to a USB-compatible device, such as a USB keyboard, a USB mouse, a USB storage device, or a USB printer.
5. USB 3.2 Gen 1 port (always-on)	The always-on connector can charge external devices when the computer is turned off, in sleep or hibernation mode. The always-on function can be turned on or off in the UEFI/BIOS setup utility. Note: If Lenovo Vantage is pre-installed on your computer, you can also set always-on function from within that software.
6. Power connector	Connect to power with the included power cord and ac power adapter.
7. USB 3.2 Gen 2 port (always-on)	The always-on connector can charge external devices when the computer is turned off, in sleep or hibernation mode. The always-on function can be turned on or off in the UEFI/BIOS setup utility. Note: If Lenovo Vantage is pre-installed on your computer, you can also set always-on function from within that software.

Bottom



1. Ventilation slots (inlet)

Maintain the incoming airflow to dissipate internal heat.
Attention: Do not block the ventilation slots. Otherwise, the computer might overheat.

2. Novo button hole

Press the Novo button to open the Novo Button menu. From the menu, you can choose to open the UEFI/BIOS setup utility, the Boot menu, or the Windows startup options screen.

3. Speakers

Produce sound.

Features and specifications

Dimensions	<ul style="list-style-type: none">• Width: Approximately 357.7 mm (14.08 inches)• Depth: Approximately 260.0 mm (10.24 inches)• Thickness<ul style="list-style-type: none">– Thinnest: Approximately 16.9 mm (0.67 inches)– Thickest: Approximately 21.0 mm (0.83 inches)
ac power adapter	<ul style="list-style-type: none">• Input: 100 V ac–240 V ac, 50 Hz–60 Hz• Output: 20 V dc, 8.5 A or 11.5 A• Power: 170 W or 230 W
Battery pack	<ul style="list-style-type: none">• Capacity: 71 Wh or 99.99 Wh• Number of cells: 4 <p>Note: The battery capacity is the typical or average capacity as measured in a specific test environment. Capacities measured in other environments may differ but are no lower than the rated capacity (see product label).</p>
Microprocessor	To view the microprocessor information of your computer, right-click the Start button and then select System .
Memory	<ul style="list-style-type: none">• Type: Double data rate 5 (DDR5)• Number of physical slots: 1
Storage device	<ul style="list-style-type: none">• Type: Solid-state drive• Form factor: M.2<ul style="list-style-type: none">– 2242– 2280• Bus: PCI Express
Screen	<ul style="list-style-type: none">• Size: 406.4 mm (16 inches)• Display resolution: 1920 × 1200 pixels or 2560 × 1600 pixels
Keyboard	<ul style="list-style-type: none">• Function keys• Hotkeys• Numeric keypad• Keyboard backlight

Connectors and slots

- Power connector
- Combo audio jack
- HDMI 2.1 connector
- USB Standard-A connector × 3 (for Legion S7 16IAH7 and Lenovo Legion S7 16IAH7)
 - Supports SuperSpeed USB 5 Gbps and backwards compatible with USB 2.0
 - Supports SuperSpeed USB 10 Gbps; backwards compatible with SuperSpeed USB 5 Gbps and USB 2.0
 - Power output up to 5 V and 0.9 A
 - Power output up to 5 V and 2 A (the always-on USB port)
- USB Standard-A connector × 2 (for Legion S7 16ARHA7 and Lenovo Legion S7 16ARHA7)
 - Supports SuperSpeed USB 10 Gbps; backwards compatible with SuperSpeed USB 5 Gbps and USB 2.0
 - Power output up to 5 V and 0.9 A
 - Power output up to 5 V and 2 A (the always-on USB port)
- USB Type-C connector
 - Power input up to 20 V and 6.75 A
 - Power output up to 5 V and 3 A
 - DisplayPort 1.4 compliant in DisplayPort Alt mode
 - Supports SuperSpeed USB 10 Gbps; backwards compatible with SuperSpeed USB 5 Gbps and USB 2.0
- USB Type-C connector (Thunderbolt 4 enabled)*
 - Power input up to 20 V and 6.75 A
 - Power output up to 5 V and 3 A
 - Up to 40 Gbps data transfer rate in Thunderbolt Alt Mode
 - DisplayPort 1.4 compliant in DisplayPort Alt Mode
 - Supports SuperSpeed USB 10 Gbps; backwards compatible with SuperSpeed USB 5 Gbps and USB 2.0

Note: Data rates and performance ratings are dependent on connected devices and cables if they are used. USB Type-C connectors that are DisplayPort 1.4 compliant through DisplayPort alternate mode provide maximum output resolution of 5120 x 3200, at 60 Hz frame rate and color depth of 24 bpp (bits per pixel). The actual maximum output resolution is dependent on the connected display device and the cable being used.

Security features

- Fingerprint reader
- UEFI/BIOS passwords
 - Administrator password
 - User password
 - Master hard disk password
 - User hard disk password

Wireless features

Bluetooth and Wi-Fi combo adapter

* for selected models

Statement on USB transfer rate

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

USB device	Data rate (Gbit/s)
3.2 Gen 1	5
3.2 Gen 2	10

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)

Avoid constant body contact with specific hot sections

CAUTION:

When the computer is operating, it should be placed on a hard and flat surface with its bottom area not in contact with user's bare skin. Under normal operating conditions, the temperature of the bottom surface will remain within an acceptable range as defined in *IEC 62368-1*, but such temperatures can still be high enough to cause discomfort or harm to the user if directly touched for over 10s at a time. As such, it is recommended that users avoid prolonged direct contact with the bottom of the computer.

Chapter 2. Get started with your computer

Work with Windows

The following table contains Windows frequently used settings. You can learn the basics and start working with Windows right away.

To configure settings, type the corresponding keywords in the Windows search box and select the best match. Follow the on-screen instructions to customize settings.

Table 1. Basic settings

Functions	Descriptions	Search by keywords
Control Panel	View or change Windows settings, including hardware and software setup and configuration.	Control Panel
Connect to Wi-Fi networks	For models with a wireless LAN module, you can connect your computer to a Wi-Fi® network. Click the network icon in the Windows notification area, and then select a network for connection. Note: The wireless LAN module on your computer may support different standards. For some countries or regions, use of 802.11ax may be disabled according to local regulations.	Wi-Fi
Connect to wired networks	For models with an Ethernet (RJ-45) connector, you can use an Ethernet cable to connect your computer to a wired network.	Ethernet
Airplane mode	Airplane mode is a convenient setting to turn all wireless communications of your computer on and off. You may need to turn it on when boarding an airplane.	Airplane mode
Night light mode	Night light is a switch in Windows that you can turn on and off. When it is turned on, your screen shows warmer colors and the amount of emitted blue light is reduced. Enabling night light reduces the chances of developing eye fatigue or eye strain. Note: For more guidance on reducing eye fatigue or eye strain, go to https://www.lenovo.com/us/en/compliance/visual-fatigue .	Night light
Adjust color temperature	If night light mode is turned on, you can adjust the color temperature of the screen. Note: Selected Lenovo computers are low blue light certified using night light mode and color temperature settings available in the pre-installed operating system. These computers are tested with night light turned on and color temperature set to 48 or greater.	Night light
Windows Updates	Microsoft periodically releases feature and security updates to the Windows operating system. Updates that are applicable to your Windows version are downloaded automatically when your computer is connected to the Internet. When updates are downloaded, you are prompted to restart the computer to install these updates. You can also manually check if there are available updates for the installed version of Windows. Attention: Only use Windows Update to download and install updates. Updates downloaded from other sources may include security risks.	Windows Updates

Windows help information

If the on-screen instructions cannot solve your problem, refer to the following to get the online Windows help information.

- Type Get Help or Tips in the Windows search box and then press Enter. When the app opens, type the problem description and select the matched result.
- Visit Microsoft support Web site: <https://support.microsoft.com>. Enter what you are looking for in the search box and get search results.

Lenovo Vantage and Lenovo PC Manager

They are both apps developed by Lenovo. Using either of them, you can:

- View product information and system status
- Manage and change device settings
- Check for and perform system update

Note: This feature is only available on Lenovo Vantage. In Lenovo PC Manager, you can check for and perform driver update.

Depending on the country or region in which your computer is purchased, one of the apps may be pre-installed on your computer. To open it, type its name in the Windows Search box and select the matched result. If neither of the apps is pre-installed, you may install one on your own. Lenovo Vantage is available for download free of charge from the Microsoft Store.

Note: App features are subject to change with updates and specific features may not be available on all Lenovo products.

The Novo Button menu

The Novo Button menu can be displayed before the operating system starts. From the menu, you can choose to

- Open the BIOS/UEFI setup utility
- Open the boot device selection menu
- Open the Windows startup options screen

Note: From the Windows startup options screen, you can then choose to

Start your computer using a recovery drive

Reset your computer

Open advanced options screen

Open the Novo Button menu

Step 1. Turn on or restart the computer.

Step 2. Press F9 repeatedly.

The Fn key and hotkeys


















The Fn key

Many keys on a Lenovo keyboard have dual functions: a default function and a hidden function. The Fn key is used to modify a dual-function key to activate its hidden function.

Note: The Fn key is located in the lower left corner on a Lenovo keyboard.

Hotkeys

Hotkeys are dual-function keys with an icon printed on the key. The icons indicate the hidden functions of the hotkeys. To use the hidden function, hold down the Fn key.

Hotkey	Function
	Mute/Unmute sound.
	Decrease/Increase system volume.
	Mute/Unmute the microphone.
	Increase/Decrease screen brightness.
	Switch display devices.
	Turn airplane mode on and off.
	Display an app launcher for quick access to Lenovo apps and services. Note: For some models, you may need to connect to the Internet and complete system update for this function to take effect.
	Enable/Disable the touchpad.
	Display thumbnails of all open apps.
	Open the Windows Calculator app.
	Open the Windows Snipping tool.
	Play or pause playback of media.
	Stop playback of media.
	Go to the previous media file in the playlist or folder.
	Go the next media file in the playlist or folder.
	Turn on/off or adjust the brightness of the keyboard backlight. Note: This hotkey must always be used while holding down the Fn key. Selected models include a keyboard with multi-color backlight. For such a keyboard, this hotkey switches among several predefined lighting patterns. Lighting patterns are customizable in Lenovo Vantage or Legion Zone.
	Adjust the brightness of the keyboard backlight. Note: This hotkey must always be used while holding down the Fn key.

* for selected models

Dual-function keys without printed icons

Some dual-function keys share keys with letter keys and numeric keys. Such keys do not have a dedicated printed icon. The following table lists the hidden functions for these keys.

Key combination	Hidden function
Fn + B	Break
Fn + P	Pause
Fn + S	SysRq

Key combination	Hidden function
Fn + K	ScrLk
Fn + Q	Switch operation modes
Fn + R *	Adjust display refresh rate
Fn + U	Turn the rear port LED on and off

* for selected models

The FnLock switch

The FnLock is a switch that reverses the default and hidden function of a hotkey. The FnLock switch shares the ESC key (in the upper left corner of the keyboard). To turn it on or off, press Fn + ESC. The following table provides an example of how the FnLock switch changes the default function of the F1 key.

FnLock	FnLock light	Default function of the F1 key
Off	Off	F1 function *
On	On	Mute/Unmute sound



* The F1 function is application-dependent. It may have no function if the active application does not have a definition for the key.

Chapter 3. Explore your computer

Manage power

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

Check the battery status

The battery status icon  or  is in the Windows notification area. You can check the battery status, view the current power plan, and access battery settings quickly.

Click the battery status icon to display the percentage of battery power remaining and change the power mode. A warning message is displayed when the battery is low.

Charge the battery

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

The battery is fully charged in about two to four hours. The actual charging time depends on the battery capacity, the physical environment, and whether you are using the computer.

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 or Lenovo PC Manager.

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.

To extend your battery's lifespan, the battery may optimize its full charge capacity based on your usage. After prolonged periods of limited use, full battery capacity may not be available until you discharge to as low as 20% and recharge completely. For more information, refer to the power section of Lenovo Vantage.

Use a power delivery compliant USB Type-C charger with the computer

The USB Type-C connector on the left of the computer conforms to the Power Delivery specification. If you did not carry the included ac power adapter with your computer, you have the option of using a qualified USB Type-C charger (purchased separately) that is also Power Delivery compliant to charge the computer in sleep or powered-off state. Lenovo branded USB Type-C chargers with the following listed maximum ratings are tested to work with the computer. Chargers of other brands with the same ratings should also work but are not thoroughly tested.

- 20 V, 3.25 A
- 20 V, 4.75 A
- 20 V, 5 A
- 20 V, 6.75 A

The left USB Type-C connector is not designed as the primary power input connector. When the computer is operating, the power supplied by the USB Type-C charger may be insufficient. As a result, the computer may not operate at its full capacity and the battery charging may stop or is very slow. Use the included ac power adapter whenever possible.

CAUTION:

When purchasing third-party USB Type-C chargers for use with the computer, choose a product that is safety approved or certified. A disqualified charger may cause damage to your computer or pose an electrical hazard. In many countries and regions, manufacturers or importers of electric chargers can submit their products to a certification authority or approved and recognized testing laboratories. Such a product usually carries a mark if it was tested to pass relevant quality and safety standards. For some countries and regions, this certification process is even mandatory. If you live in mainland China, choose a charger with the “CCC” mark; for users in many European countries, choose one with the “CE” mark; for users in the United States and Canada, choose a Listed charger that carries a mark by one of the Nationally Recognized Testing Laboratories. (For example, the “UL Listed” mark). For people living in other countries and regions, consult a qualified electrical engineer for how to select a safety approved electric charger.

Set power button behavior

By default, pressing the power button puts the computer to sleep mode. However, you can change the power button behavior in Windows Control Panel.

Step 1. Type Control Panel in the Windows search box and then press Enter. Open the control panel and view by large or small icons.

Step 2. Select the power options and then click choose what the power button does.

A power plan

A power plan is a collection of power-saving settings made available by an operating system. With a power plan, you can set idle time-outs for different hardware components to enter a low-power state. The default power plan and some of its idle time-out settings are listed below for computer models pre-installed with Windows.

The listed settings are active when the computer is connected to an electrical outlet. If your computer include a built-in battery pack, a different collection of time-out settings is set to take effect when the computer is operating on battery power.

- Default power plan: Balanced
- Turn off the display: after 10 minutes
- Put the computer to sleep: after 10 minutes

Note: To wake the computer from the sleep state, press the power button or any key on the keyboard.

Change or customize a power plan

This operation is applicable to computers with pre-installed Windows.

Step 1. Type power plan in the Windows search box and then press Enter.

Step 2. Customize a power plan of your preference.

Set operation mode

Your computer can work in different operation modes. The performance and power consumption of the computer vary in different operation modes. Press **Fn + Q** to cycle through different operation modes.

Note: Performance mode is not available when your computer runs on battery power.

Change settings in UEFI/BIOS setup utility

This section introduces what is UEFI/BIOS and the operations you can perform in its setup utility.

What is UEFI/BIOS setup utility

UEFI/BIOS is the first program that runs when a computer starts. UEFI/BIOS initializes hardware components and loads the operating system and other programs. Your computer may include a setup program (setup utility) with which you can change certain UEFI/BIOS settings.

Open the UEFI/BIOS setup utility

- Step 1. Turn on or restart the computer.
- Step 2. Press F2 repeatedly.
- Step 3. On the welcome screen, select **More Settings**.

Enable or disable Fool Proof Fn Ctrl

- Step 1. Open the UEFI/BIOS setup utility.
- Step 2. Select **Configuration**.
- Step 3. Change the **Fool Proof Fn Ctrl** setting to **Enabled** or **Disabled**.
- Step 4. Select **Exit** → **Exit Saving Changes**.

When enabled, the Fn key and the Ctrl key can be used interchangeably for key combinations involving the **Ctrl** key. For example, you can press either **Ctrl + A** or **Fn + A** to select all text in a text editing application.

Enable or disable always-on

For some Lenovo computers with always-on connectors, the always-on function can be enabled or disabled in the UEFI/BIOS setup utility.

- Step 1. Open the UEFI/BIOS setup utility.
- Step 2. Select **Configuration** → **Always On USB** and press Enter.
- Step 3. Change the setting to **Disabled** or **Enabled**.
- Step 4. Select **Exit** → **Exit Saving Changes**.

Enable or disable Flip to Boot

When Flip to Boot is enabled, you can turn on the computer by flipping open the screen.

- Step 1. Open the UEFI/BIOS setup utility.
- Step 2. Select **Configuration**.
- Step 3. Change the setting for **Flip to Boot**.

Set passwords in UEFI/BIOS setup utility

This section introduces the types of passwords that you can set in the UEFI (Unified Extensible Firmware Interface) or BIOS (Basic Input/Output System) setup utility.

Password types

You can set various types of passwords in the UEFI/BIOS 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.
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.

Notes:

- All passwords set in the setup utility consist of alphanumeric characters only.
- 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 UEFI/BIOS 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 UEFI/BIOS 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 UEFI/BIOS 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 UEFI/BIOS 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 UEFI/BIOS 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 password for the secondary storage device

Permanent data is stored on secondary storage devices. Your computer may include one or more solid-state drive or hard disk drive as secondary storage device(s). You can set passwords for secondary storage devices in the setup utility to prevent unauthorized access to your data.

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 UEFI/BIOS setup utility.
- Step 2. Select **Security → Set Hard Disk Password** and press Enter.
Note: If your computer model includes more than one secondary storage device, you can set separate password for each device. 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 hard disk password

- Step 1. Open the UEFI/BIOS 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. Help and support

Frequently asked questions

How do I partition my storage drive?	Refer to https://support.lenovo.com/solutions/ht503851
What should I do if my computer stops responding.	Press and hold the power button until the computer turns off. Then restart 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.
What should I do if I spill liquid on the computer?	
Where can I get the latest device drivers and UEFI/BIOS?	<ul style="list-style-type: none">• Lenovo Vantage or Lenovo PC Manager• Lenovo Support Web site at https://support.lenovo.com

Self-help resources

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

Resources	How to access?
Troubleshooting and frequently asked questions	<ul style="list-style-type: none">• https://www.lenovo.com/tips• https://forums.lenovo.com
Accessibility information	https://www.lenovo.com/accessibility
Reset or restore Windows	<ul style="list-style-type: none">• Use Lenovo recovery options.<ol style="list-style-type: none">1. Go to https://support.lenovo.com/HowToCreateLenovoRecovery.2. Follow the on-screen instructions.• Use Windows recovery options.<ol style="list-style-type: none">1. Go to https://pcsupport.lenovo.com.2. Detect your computer or manually select your computer model.3. Click Diagnostics → Operating System Diagnostics and then follow the on-screen instructions.

Resources	How to access?
<p>Use Lenovo Vantage or Lenovo PC Manager to:</p> <ul style="list-style-type: none"> • Download and install the latest drivers and firmware. • Configure hardware settings • Diagnose computer hardware problems. • Check the computer warranty status. 	Use Windows Search.
<p>Product documentation:</p> <ul style="list-style-type: none"> • Generic Safety and Compliance Notices • <i>Safety and Warranty Guide</i> • <i>Setup Guide</i> • This <i>User Guide</i> • <i>Regulatory Notice</i> 	<ol style="list-style-type: none"> 1. Go to https://support.lenovo.com. 2. Detect your computer or select computer model manually. 3. Select Documentation and filter out the documentation you want.
<p>Lenovo Support Web site with the latest support information of the following:</p> <ul style="list-style-type: none"> • Drivers and software • Diagnostic solutions • Product and service warranty • Product and parts details • Knowledge base and frequently asked questions 	Visit https://support.lenovo.com
Windows help information	<ul style="list-style-type: none"> • Use Get Help or Tips. • Use Windows Search or the Cortana® personal assistant. • Microsoft support Web site: https://support.microsoft.com

What is a CRU?

Customer replaceable units (CRUs) are parts that can be upgraded or replaced by the customer. A Lenovo computer may contain the following types of CRUs:

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.

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

CRUs for your product model

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

Part	Self-service CRU	Optional-service CRU
Power cord	X	
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, must be done by a Lenovo-authorized repair facility or technician. Go to <https://support.lenovo.com/partnerlocation> for more information.

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
<ul style="list-style-type: none">• Product name• Machine type and serial number	<ul style="list-style-type: none">• What is the problem? Is it continuous or intermittent?• Any error message or error code?• What operating system are you using? Which version?• Which software applications were running at the time of the problem?• Can the problem be reproduced? If so, how?

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/supportphonenumberlist>.

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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