User Guide



Lenovo Legion Slim 5 (14", 8)

Read this first

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

- <u>Generic Safety and Compliance Notices</u>
- Safety and Warranty Guide
- Setup Guide

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About this guide

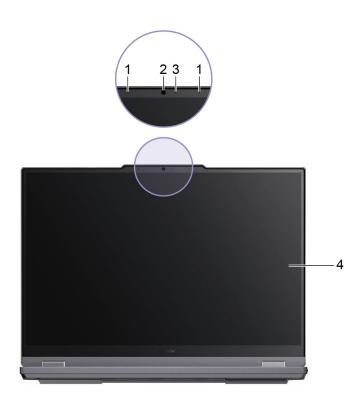
• This guide applies to Lenovo product model(s) listed below. Illustrations in this guide may look slightly different from your product model.

Model name	Machine type (MT)
Legion Slim 5 14APH8	82Y5
Lenovo Legion Slim 5 14APH8	0215

- For further compliance information, refer to the *Generic Safety and Compliance Notices* at <u>https://pcsupport.lenovo.com/docs/generic_notices</u>.
- 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 chatting.
3. Camera light	If the light is on, the camera is in use.
4. Screen	Display text, graphics, and videos.

Base



1. Charging light	Indicate whether the computer is connected to ac power.
	 Solid white: connected to ac power; battery capacity 80%–100%
	 Solid amber: connected to ac power; battery capacity 0%–79%
	Off: not connected to ac power
2. Power button/Fingerprint reader	• Press the button to turn on the computer or put the computer into sleep mode.
	Note: You can turn on the computer by flipping open the LCD screen if Flip to Start is enabled.
	Enroll and read your fingerprint for user authentication.
3. Power light	Indicate the power status of the computer. The color of the power light also reflects the currently activated operation mode. Refer to "System operation modes" on page 17 for how to switch operation modes.
	Solid on: The computer is turned on.
	 White: in balance mode
	 Blue: in quiet mode
	 Red: in performance mode
	Blinking: The computer is in sleep mode.
	Off: The computer is turned off or in hibernation mode.
4. Keyboard	Enter characters and interact with programs. Note: The keyboard also includes hotkeys and function keys for changing settings and performing tasks quickly.
5. Touchpad	Perform finger touch and all the functions of a traditional mouse. Note: The touchpad also supports multi-touch function.
6. Wireless antennas	Send and receive radio waves for the built-in wireless LAN (local area network) and Bluetooth module. Note: The antennas are not visible from the outside of the computer.

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. Multi-purpose USB Type-C [®] connector	 This multi-purpose connector can be used to connect devices that utilize the USB data transfer technology and 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.
	• It also supports USB Power Delivery and can be used as a secondary power input connector. For details, refer to "Use a power delivery compliant USB Type-C charger with the computer" on page 16.
3. Multi-purpose USB Type-C connector	This multi-purpose connector can be used to connect devices that utilize the USB data transfer technology and 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.

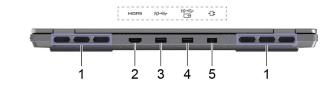
Left

Right



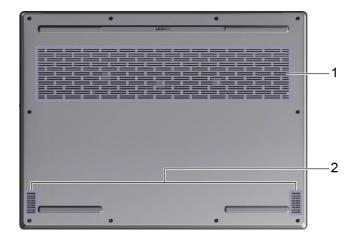
1. SD card slot	Insert an SD card or a MultiMediaCard (MMC) into the slot for data transfer or storage.
2. Camera switch	Turn the camera on or off. Note: The camera switch helps you better protect your privacy.
3. Combo audio jack	Connect to headphones or headsets with a 3.5 mm (0.14 inch), 4-pole plug. Note: This jack does not support standalone external microphones. If you use headsets, choose one with a single plug.
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



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) Type-A connector	Connect 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 2) Type-A connector (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.
5. Power connector	Connect to power with the included power cord and ac power adapter.

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. Speakers	Produce sound.

Dimensions	 Width: 327.49 mm (12.9 inches) Depth: 249.12 mm (9.8 inches) Thickness: Thinnest: 17.9 mm (0.7 inches) Thickest: 20.79 mm (0.82 inches) or 21.29 mm (0.84 inches)
ac power adapter	 Input: 100 V ac-240 V ac, 50 Hz-60 Hz Output: 20 V dc, 8.5 A Power: 170 W
Battery pack	 Capacity: 73.6 Wh Number of cells: 4 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).
Microprocessor	 To view the microprocessor information of your computer: Right-click the Start button and then select System. Type system information in the Windows search box and then press Enter.
Memory	Type: Low Power Double Data Rate 5X (LPDDR5X), on boardNumber of physical slots: 0
Secondary storage device	 Type: solid-state drive Form factor: M.2 (2242 or 2280) Number of slots: 2 Bus: PCI Express
Screen	 Size: 368.3 mm (14.5 inches) Display resolution: 2880 × 1800 pixels
Keyboard	Function keysHotkeysKeyboard backlight

Features and specifications

Connectors and slots	Power connector		
	Combo audio jack		
	SD card slot		
	HDMI connector		
	 Supports 4096 × 2160 at 60 Hz as specified in HDMI 2.1 		
	 USB Type-A connector × 2 (one connector with Always-On function) 		
	 Supports SuperSpeed USB 10 Gbps 		
	 Power output up to 5 V and 0.9 A 		
	 Power output up to 5 V and 2 A (the always-on USB connector) 		
	Multi-purpose USB Type-C connector × 2		
	 Supports SuperSpeed USB 10 Gbps 		
	 Supports power output up to 15 W (5 V, 3 A) 		
	 Supports USB Power Delivery 140 W (the one with an icon USB-PD) 		
	 Supports DisplayPort[™] Alt Mode 		
	 The one with an icon USB-PD supports maximum output resolution of 5120 × 3200, at 60 Hz frame rate and color depth of 24 bpp (bits per pixel). 		
	 The one without an icon supports maximum output resolution of 5120 × 2880, at 60 Hz frame rate and color depth of 24 bpp (bits per pixel). 		
	Note: Data rates and performance ratings are dependent on connected devices and cables if they are used. For DisplayPort connection through a USB Type-C port, the listed maximum output capacity is only available on external displays with a DisplayPort, a Mini DisplayPort, or a USB Type-C port that supports DisplayPort Alternate Mode. For connections using a converter or an adapter, the actual output resolution may be lower.		
Security	Fingerprint reader		
	Software Trusted Platform Module (TPM)		
	UEFI/BIOS passwords		
	 Administrator password 		
	– User password		
	 Master hard disk password 		
	 User hard disk password 		
Network	Bluetooth and Wi-Fi [®] combo adapter		

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)
USB 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.

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 RJ45 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		
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

Table 1. Basic settings

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, Lenovo PC Manager and Legion Zone

They are all apps developed by Lenovo. Using any 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 or Legion Zone, 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 preinstalled on your computer. To open it, type its name in the Windows Search box and select the matched result. If none 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

Hotkeys

Look at the top row of the keyboard of your Lenovo computer and you'll find keys with printed icons. These keys are called hotkeys and they provide shortcuts to functions that you'll use frequently. The function that each hotkey provides is denoted by the icon printed on the key.

Hotkeys share keys with function keys (F1–F12) and other keys. Depending on the FnLock setting, you use hotkey functions by pressing the key directly or in combination with the Fn key.

Note: The FnLock switch does not apply to hotkeys not found in the first row of the keyboard. To use these hotkeys, always hold down the Fn key while pressing the key.

Tab				
CapsLock				
Shift				
Ctrl	Fr			

Figure 1. Location of the Fn key

Related topics

Appendix A "Function descriptions for Lenovo hotkeys" on page 27

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 2. 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

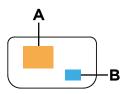


Figure 3. The layout of a dual-function key

Table 2.	FnLock and	dual-function	kevs

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

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
Fn + K	ScrLk
Fn + Q	Switch operation modes
Fn + R	Switch between different display refresh rate
Fn + N	Show device information

Chapter 3. Explore your computer

Manage power

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

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 Legion Zone.

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.

Normal mode

Normal mode is the most basic charging mode. In normal mode, it typically takes 2 to 4 hours for the battery to charge from 0% to 100%.

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 kept 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.

Rapid charge mode

If you want the battery to be charged faster than in normal mode, switch the battery charging to rapid charge mode. The following table lists the typical time needed for batteries in rapid charge mode to be charged to 80% and 100% respectively.

Mode	Time needed to charge from 0% to 80%	Time needed to charge from 0% to 100%
Rapid charge	Less than 1 hour	Less than 2 hours

Table 3. Reference charge time for batteries in rapid charge mode

Overnight battery charging mode

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 battery charging mode for the battery.

Overnight battery charging mode 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 battery charging mode ensures safe charging during the night and is beneficial to the long-term health of the battery.

Note: With overnight battery charging mode 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 battery charging mode, it can be enabled in Lenovo Vantage or Legion Zone.

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%.

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

The USB Type-C connector on the left side of the computer with a **USB-PD** icon next to it 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, 4.75 A
- 20 V, 5 A
- 20 V, 6.75 A
- 20 V, 7 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 5 minutes
- Put the computer to sleep: after 5 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.

System operation modes

Lenovo has preset several modes in which your computer can operate. The maximum attainable performance, power consumption, and speed limit for the heat sink fan vary between the operation modes. Consider the following conditions when you want to switch operation modes.

- The environment where you use your computer
- The tasks running on your computer

You switch the operation mode in the pre-installed app Lenovo Vantage, Lenovo PC Manager or Legion Zone. As a shortcut, you can also use the key combination Fn + Q. The following table lists the available operation modes on your computer and the recommended conditions for each mode.

Table 4. Operation modes and their recommended usage conditions

lcon	Operation mode	Recommended conditions
	Performance	Your computer is plugged into an electrical outlet.
		 You want the best performance, and You don't care if the fan makes a little noise.
AUTO	Balance	You plan to frequently switch between different computer tasks over a period time.
	Quiet	Your computer is operating on battery power, orYou want the computer to be as quiet as possible

Note: When the computer is operating on battery power or is plugged in using an under-rated power adapter, you may not be able to switch it to Performance mode. In Balance mode, the computer dynamically switches between Performance mode and Quiet mode based on the tasks that are running on the computer.

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** \rightarrow **System** \rightarrow **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.

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** \rightarrow **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** + \mathbf{A} or $\mathbf{Fn} + \mathbf{A}$ to select all text in a text editing application.

Select boot devices

Normally, the computer starts to a boot manager loaded from the secondary storage device of the computer. Occasionally, you may need to start the computer to a program or boot manager loaded from another device or a network location. After the system firmware initializes all devices, you can press an interruption key to display the boot menu and select a desired boot device.

- Step 1. Turn on or restart the computer.
- Step 2. Press F12.
- Step 3. From the boot device menu, select a boot device to start the computer.

You can make a permanent change on boot devices in the UEFI/BIOS setup utility. Select the **Boot** menu; in the **EFI** section, select the desired boot device and move it to the top of the device list. Save changes and exit the setup utility for the change to take effect.

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 $\mathbf{Exit} \rightarrow \mathbf{Exit}$ Saving Changes.

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 \rightarrow 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** \rightarrow **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 $\mathbf{Exit} \rightarrow \mathbf{Exit}$ 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** \rightarrow **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.

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.

Where can I get the latest device drivers and UEFI/BIOS

- Lenovo Vantage, Lenovo PC Manager or Legion Zone
- Lenovo Support Web site at https://support.lenovo.com.

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 Legion Zone
- Firmware Setup Utility

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	<u>https://www.lenovo.com/tips</u>	
	<u>https://forums.lenovo.com</u>	
Accessibility information	https://www.lenovo.com/accessibility	
	Use Lenovo recovery options.	
	1. Go to <u>https://support.lenovo.com/</u> <u>HowToCreateLenovoRecovery</u> .	
	2. Follow the on-screen instructions.	
	Use Windows recovery options.	
Reset or restore Windows	1. Go to <u>https://pcsupport.lenovo.com</u> .	
	Detect your computer or manually select your computer model.	
	 Click Troubleshoot & Diagnostics → Custom Troubleshooting → Operating System Diagnostics and then follow the on-screen instructions. 	
Use Lenovo Vantage, Lenovo PC Manager or Legion Zone to:		
• Download and install the latest drivers and firmware.	Use Windows Search.	
Configure hardware settings		
Diagnose computer hardware problems.		
Check the computer warranty status.		
Product documentation:		
Generic Safety and Compliance Notices	1. Go to https://support.lenovo.com.	
Safety and Warranty Guide	2. Detect your computer or select computer model	
Setup Guide	manually.3. Select Documentation and filter out the documentation you want.	
This User Guide		
Regulatory Notice		
Lenovo Support Web site with the latest support information of the following:		
Drivers and software		
Diagnostic solutions	Visit https://support.lenovo.com	
Product and service warranty		
Product and parts details		
Knowledge base and frequently asked questions		
	• Use Get Help or Tips.	
Windows help information	 Use Windows Search or the Cortana[®] personal assistant. 	
	 Microsoft support Web site: <u>https://support.microsoft.com</u> 	

What is a CRU?

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

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

If you intend 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/lw_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	Х	
ac power adapter	Х	

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 <u>https://support.lenovo.com/partnerlocation</u> 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		
Product name	What is the problem? Is it continuous or intermittent?		
Machine type and serial number	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 <u>https://pcsupport.lenovo.com/supportphonelist</u>.

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 <u>https://pcsupport.lenovo.com/warrantyupgrade</u>.

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

Appendix A. Function descriptions for Lenovo hotkeys

Hotkey functions are denoted by the icons printed on the keys. The following table describes the functions for all Lenovo hotkeys. The keyboard of your Lenovo computer should only support a subset of the listed hotkeys.

Hotkey icon	Function description
Ø	Mutes/Unmutes sound.
4+	Increases volume.
ц-	Decreases volume.
×	Enables/Disables the microphone.
-;;+	Increases screen brightness.
-☆	Decreases screen brightness.
	Selects and sets up display devices.
≻	Enables/Disables airplane mode. (Windows operating systems)
র্জ	Displays the Lenovo Smart Key quick launch panel.
	Enables/Disables the touchpad.
[000]	Displays all open apps as thumbnails. (Windows operating systems)
Ħ	Opens the Calculator app. (Windows operating systems)
%	Opens the Snipping tool. (Windows operating systems)
¢	Opens the Settings app. (Windows operating systems)
8	Locks the screen. (Windows operating systems)
	Opens the clipboard history. (Windows operating systems)
C	Puts the computer to sleep.
Ξ	Opens the context menu of the current active app.
(ht	Opens an associated voice app, voice service, or Microsoft Cortana.
<u>∿</u> ⊬	Adjusts the keyboard backlight.
<u> ~~</u> +	Increases the brightness of the keyboard backlight.
<u>~~</u> _	Decreases the brightness of the keyboard backlight.
S	Answers an incoming Microsoft Teams call.
\$	Rejects an incoming Microsoft Teams call.
0	Accesses Lenovo Support resources.
►/II	Starts/Pauses audio or video playback.
	Stops audio or video playback.
€€	Plays the previous audio or video in the playlist.

Table 5. Hotkey icons and denoted functions

Table 5. Hotkey icons and denoted functions (continued)

Hotkey icon	Function description
	Plays the next audio or video in the playlist.
N	Switches the computer's active operation mode.
	Blurs the background for videoconferencing.
⊈	Switches the computer's active audio mode.
×.	Turns on/off night light mode. (Windows operating systems)

Note: Hotkey functions may change if the associated app or the Windows operating system is updated.

Appendix B. Notices and trademarks

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