User Guide

Legion Go

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*

Contents

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 Go 8APU1	83E1

- 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 Legion Go

What is Legion Go

Legion Go is the first console developed by Lenovo. You can use it for study, work, or entertainment.

Legion Go in this User Guide refers to the combination of the tablet and two controllers.
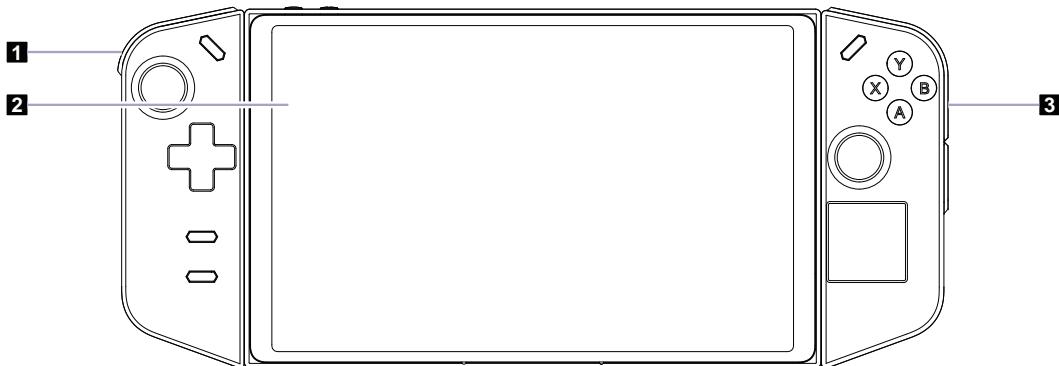
No.	Description
1	Left controller
2	Tablet
3	Right controller

Front view
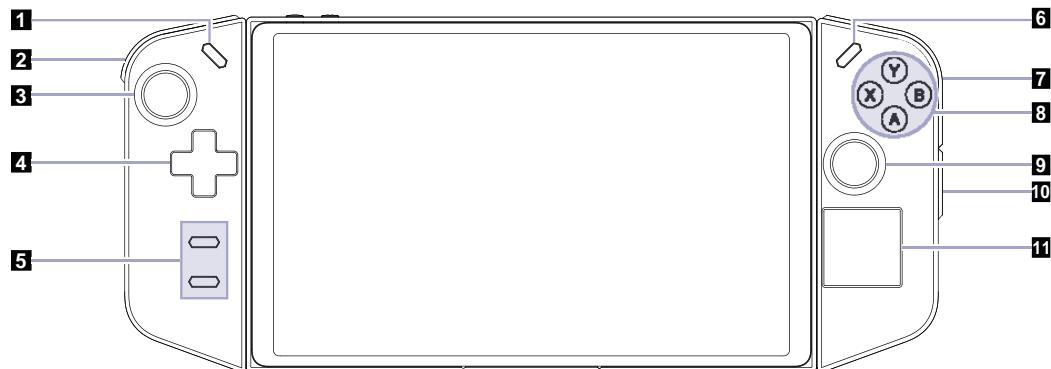
No.	Description
1	Select button
2	L button
3	Left joystick
4	D-pad
5	Function buttons
6	Menu button
7	R button
8	ABXY buttons
9	Right joystick
10	R button 2
11	Trackpad

Back view
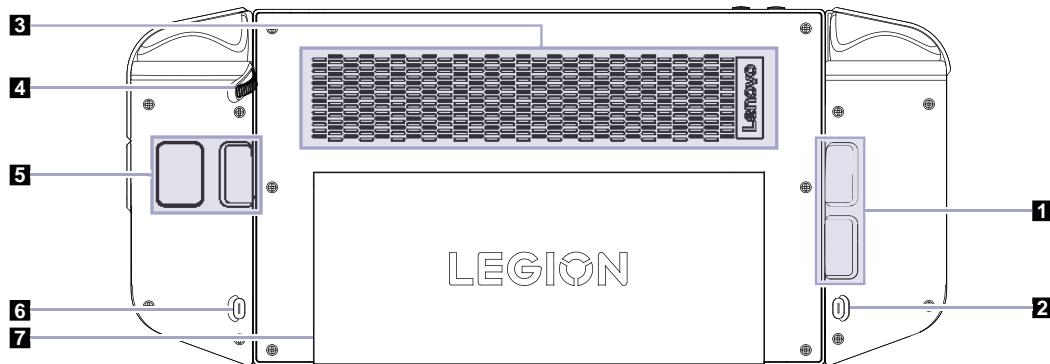
No.	Description
1	Back buttons (left)
2	Left release button
3	Thermal fins
4	Mouse wheel
5	Back buttons (right)
6	Right release button
7	Kick stand

Avoid constant body contact with specific hot sections

CAUTION:
When the console is operating, it should be placed on a hard and flat surface with its back area not in contact with user's bare skin. Under normal operating conditions, the temperature of the back 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 10 seconds at a time. As such, it is recommended that users avoid prolonged direct contact with the back of the tablet.

Top view
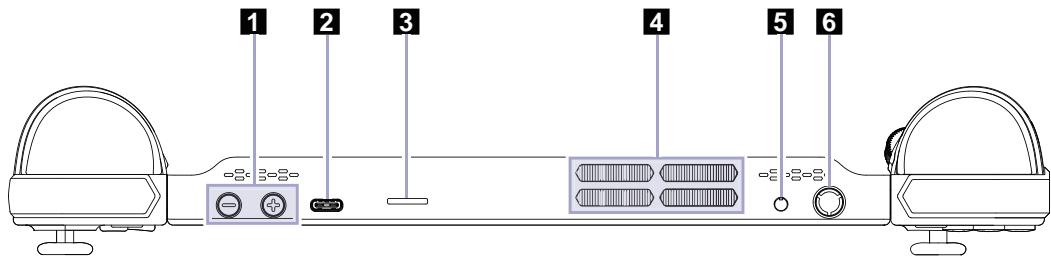
No.	Description
1	Volume buttons
2	USB Type-C
3	Card reader
4	Thermal fins
5	Combo audio jack
6	Power button

Bottom view
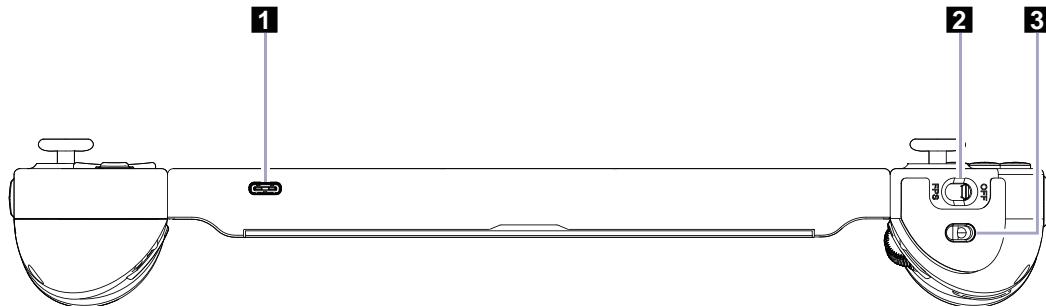
No.	Description
1	USB Type-C
2	Mouse switch
3	Mouse sensor

Specifications for the tablet

Dimensions

Length	210 mm
Width	131 mm
Thickness	20 mm

Display

Type	LCD
Size	8.8 inch
Resolution	2560 x 1600
Maximum refresh rate	144 Hz
Brightness	500 nits

Connectors

Combo audio jack	• Quantity: 1
Micro SD card reader	• Quantity: 1 • Interface: SD 4.0

USB4	• Quantity: 2
	• Maximum power output: 5 V, 3 A
	• Maximum power input: 20 V, 3.25 A
	• Protocol:
	  – USB 2.0 480 Mbps
	  – SuperSpeed USB 5 Gbps
	  – SuperSpeed USB 10 Gbps
	  – Display port 1.4
	  – Power delivery 3.0
	  – Thunderbolt 3 (40 Gbps)

ac power adapter

Input	100 V ac–240 V ac, 50 Hz–60 Hz
Maximum output	20 V dc, 3.25 A

Rechargeable battery pack

Capacity	49.2 Wh
Cell type	Li-Polymer

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).

Memory

Type	LPDDR5X
Installation	on-board

Mass storage

Type	SSD
Slot	M.2 (2242)
Interface	PCIe Gen4

Networking

Wi-Fi	Wi-Fi 6E
Bluetooth	Bluetooth 5.2

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 1	5
USB 3.2 Gen 2	10
USB4	40

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. Set your Legion Go

Connect Legion Go to external devices

You can connect Legion Go to external devices, such as the smart phone, TV box, or personal computer, through the Bluetooth, 2.4G receiver, or a USB Type-C cable.

Connect via Bluetooth

Legion Go can be connected to Switch, Android phone, iOS phone, and TV box via Bluetooth.

Connect via 2.4G receiver

Legion Go can be connected to PC with Windows System and TV box via 2.4G receiver.

Different states of the receiver

The receiver can be used to connect to Legion Go.

Different indicator status indicates different states of the receiver.

- Auto-connecting mode: when the receiver is inserted, the indicator blinks red slow flashing , enter the connected mode.
- Pairing mode: press the button on the receiver, the receiver LED light will switch from red slow flashing to fast flashing, that has entered the pairing mode, search for available devices.
- Connected mode: After entering the pairing mode, the LED light is always on red, indicating successful connection. The next time you turn on the phone, the handle will automatically connect back.

Connect via Type-C cable

Legion Go can be connected to PC with Windows System via Type-C cable.

Connection priority

In the off state of Legion Go,

- if Legion Go has been connected to an external device via Type-C cable, then the console connects to the external device through the cable prior to Bluetooth when it is turned on.
- if Legion Go was not connected to any external device via Type-C cable, then it will connect to the external device through Bluetooth after it is turned on.

In the power-on state, when Legion Go is connecting to an external device via Bluetooth, Type-C cable only supports charging function even if it is connected to Legion Go.

Start Legion Go

Turn on and off the controllers

Press and hold the key combination for 2 seconds to turn on the controllers.

Note: Choose the proper key combinations for entering the corresponding mode. You can refer to "Switch between connection modes" on page 10.

The controllers may be powered off in three situations.

- In the pairing mode, the controllers will be automatically shut down if there is no successful connection within two minutes.
- Ten minutes of no operation when the controllers have been connected to the external device.
- Press and hold the Home key for three seconds.

Reset the controllers

Quickly press the pin hole on the back of the controller, it will be forced to power off.

Note: The temporary data in the Memory will be cleared after the controller is powered off.

Switch between connection modes

Before starting the game travel, you should switch Legion Go to the selected mode and then connect it to the right external devices.

Follow the operation guide and check whether you have switched to the correct mode according to the indicator status.

The indicator is embedded in the power button.

Table 1. Operation guide to switching between different connection modes

Mode	Operation	Indicator status
PC mode	Press X button → Hold Home button for 2 seconds → Connect to an external device	Solid green
Switch mode	Press Y button → Hold Home button for 2 seconds → Connect to an external device	Solid red
Android mode	Press A button → Hold Home button for 2 seconds → Connect to an external device	Solid blue
iOS mode	Press B button → Hold Home button for 2 seconds → Connect to an external device	Solid purple

Notes:

- The mode should be switched under power-off state.
- Under PC mode and Android mode, Legion Go is in X-input mode by default.
- While in X-input mode, press Home, A, and B button at the same time, your console can be switched to D-input mode and the indicator blinks twice means the mode switch is successful.
- While in D-input mode, press Home, A, and B button at the same time, your console can be switched to X-input mode and the indicator blinks once means the mode switch is successful.

Set the Turbo combo keys

Combo keys provides a shortcut in playing games, which can help make faster actions and save your efforts. When you have set the combo keys, you can just press one key to realize the effect of pressing several keys.

Set the Turbo combo keys: Hold the Turbo key, and fast press the key (A/B/X/Y/L1/L2/R1/R2), then the combo key has been remembered by Legion Go.

There are four gears for the speed of the combo keys: off (default) / slow (2Hz) / medium (5Hz) / fast (8Hz).

Toggle between different gears: Hold the Turbo key, then press the Left or Right key to adjust the gear. The indicator flashes once when you set to slow gear, twice when you set to medium gear, and three times when you set to fast gear.

Note: Hold the Clear key for 2 seconds to clear all set combo keys.

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 3. Enjoy your Legion Go

The Legion Space app

Legion Space is an app developed specifically for Legion Go. In this app, you can

- Manage local games or recently played cloud games.
- Adjust the performance by selecting different thermal mode, power mode, or fan speed.
- Set the display brightness, resolution, or refresh rate.

Note: Periodic improvements to the Legion Space app may be available through online updates. When an update is downloaded, the app will display a notice and prompt you to install it. Features may be added or modified after updates are installed.

Manage the performance

In Legion Space, you can manage the performance for balancing the power consumption and game experience.

Thermal mode

Lenovo has preset several modes in which Legion Go can operate. The maximum attainable performance, power consumption, and speed limit for the heat sink fan vary between the operation modes.

You switch the operation mode in the pre-installed app Legion Space.

The following table lists the available operation modes on your computer and the recommended conditions for each mode.

Table 2. Operation modes and their recommended usage conditions

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

Notes:

- When Legion Go 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 system dynamically switches between Performance mode and Quiet mode based on the tasks that are running on Legion Go.

Power mode

Lenovo has preset several power modes.

Switch the mode in the pre-installed app Legion Space. The following table lists the available power modes on your computer and the recommended conditions for each mode.

Table 3. Power modes and their recommended usage conditions

Power mode	Recommended conditions
Performance	- Your console is plugged into an electrical outlet. - You want the best performance.
Balanced	You plan to frequently switch between different tasks over a period time.
Efficiency	- Your console is operating on battery power, and - You want the console to save power.

Fan speed

The system fan can help CPU dissipate the heat so that CPU can work for a long time without malfunction. The faster the fan turns, the more heat can be dissipated. However, the fast-spinning fan also leads to excessive power consumption and shortens its life cycle.

The system fan is in Auto mode by default. If you use Legion Go for work and study, this mode is sufficient for thermal functions.

When you begin to play a high-end game, you can adjust the fan to full speed. You can enable the Full Speed Fan mode in the Performance section of Legion Space.

Adjust the display parameter

In Legion Space, you can adjust the display parameter for a better view experience.

Adjustable refresh rate

Your eyes might not notice it but the content displayed on the 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 play games at either the higher or lower refresh rate.

You can switch the refresh rate of Legion Go in different usage scenarios, which can be realized in the Display section of Legion Space app.

Get immersive game experience

You can adjust the parameter of the controllers for getting immersive game experience.

Adjustable controller vibration

When you are playing games, the controllers can vibrate for giving feedback. Imagine that when you are playing a fighting game, it is possible that you are beaten, and if this beating is reflected through the vibration of the controller, the feeling of being in the virtual world will be more real.

The controller vibration is caused by the built-in motor.

There are four vibration gears: off, low, medium, strong. The motor is in medium gear by default, and you can toggle between each gear by the Turbo key.

Press and hold the Turbo key, then press Down or Up button to adjust the vibration strength. When you switch the controller to each gear, it will vibrate for two seconds for letting you know the switch has been successful and feel the current vibration strength.

FPS mode

FPS mode is a game mode designed specifically for playing First-Person Shooting games. In this mode, hold the right controller just like holding the pistol, and press the buttons of the right controller just like pulling the trigger.

Detach the controllers, drag the mouse switch of the right controller, and then Legion Go is changed form GamePad mode to FPS mode.

You can select among four key mapping profiles or customize to your preference in the Controller section of Legion Space app.

Note: For stable use of the right controller, you can place it on the dock.

Chapter 4. Help and support

Frequently asked questions

Why does my screen brightness change constantly

Your computer may include an ambient light sensor and the adaptive brightness feature is enabled. The light sensor can detect the intensity of the surrounding light. Using data provided by the sensor, the operating system can dynamically adjust the screen brightness.

The adaptive brightness feature of the operating system can be disabled. For Windows operating systems, adaptive brightness settings are usually found in **Settings ➜ System ➜ Display**.

Troubleshooting

Correct the joystick

It is necessary to correct the joystick if you find the following problems:

- the joystick can not return to the center
- the joystick can not reach the edge
- the deadband is wide when the joystick returns to the center
- the deadband is wide when the joystick reaches the edge

How to correct the joystick

Step 1.   Press the L2 button and hold for three seconds.

Step 2.   Press the R2 button and hold for three seconds.

Step 3.   Press the L3 button and hold for three seconds.

Step 4.   Press the R3 button and hold for three seconds.

Step 5.   When the indicator blinks blue and purple alternately, rotate the left and right joysticks three turns at the maximum angle at the same time.

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	- https://www.lenovo.com/tips - https://forums.lenovo.com
Accessibility information	https://www.lenovo.com/accessibility

Resources	How to access?

Reset or restore Windows	• Use Lenovo recovery options.
	  1. Go to https://support.lenovo.com/ HowToCreateLenovoRecovery.
	  2. Follow the on-screen instructions.
	• Use Windows recovery options.
	  1. Go to https://pcsupport.lenovo.com.
	  2. Detect your computer or manually select your computer model.
	  3. Click **Diagnostics → Operating System Diagnostics** and then follow the on-screen instructions.

Use Lenovo Vantage or Lenovo PC Manager to: • Download and install the latest drivers and firmware. • Configure hardware settings • Diagnose computer hardware problems. • Check the computer warranty status.	Use Windows Search.
Product documentation: • _Generic Safety and Compliance Notices_ • _Safety and Warranty Guide_ • _Setup Guide_ • This _User Guide_ • _Regulatory Notice_	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.
Lenovo Support Web site with the latest support information of the following: • 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	• 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
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.

- Parts labeled with an asterisk ("*") are available on selected product models.

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 - Machine type and serial number	- 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/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

Notices

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Morrisville, NC 27560
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