

# User Guide



**Lenovo**

IdeaCentre 3 (7L, 05)

## **Read this first**

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

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

**First Edition (February 2020)**

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## About this documentation

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

| Model name           | Machine Type (MT) | Machine Type (MT) for Energy Star |
|----------------------|-------------------|-----------------------------------|
| IdeaCentre 3 07ADA05 | 90MV, 90NT        | 90NT                              |
| IdeaCentre 3 07IMB05 | 90NB, 90NS        | 90NS                              |

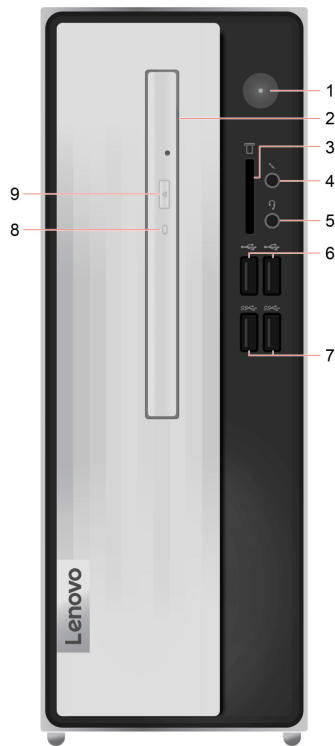
- For further compliance information, refer to the *Generic Safety and Compliance Notices* at [https://pcsupport.lenovo.com/docs/generic\\_notices](https://pcsupport.lenovo.com/docs/generic_notices).
- Depending on the model, some optional accessories, features, and software programs might not be available on your computer.
- Depending on the version of the operating systems and programs, some user interface instructions might not be applicable to your computer.
- Documentation content is subject to change without notice. Lenovo makes constant improvements to the documentation of your computer, including this *User Guide*. To get the latest documentation, go to <https://pcsupport.lenovo.com>.
- Microsoft® makes periodic feature changes to the Windows® operating system through Windows Update. As a result, some information in this documentation might become outdated. Refer to Microsoft resources for the latest information.



# Chapter 1. Meet your computer

## Front

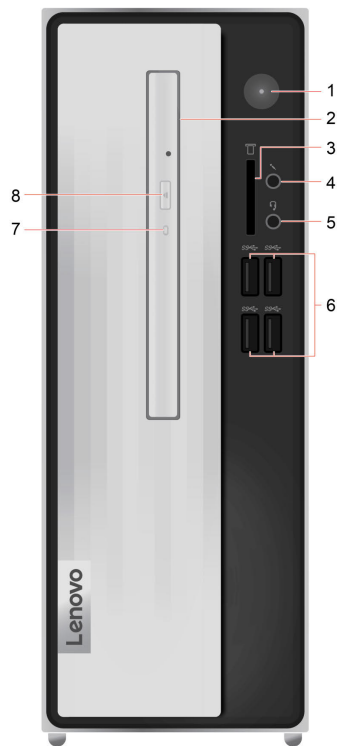
IdeaCentre 3 07ADA05



|                                      |                                      |
|--------------------------------------|--------------------------------------|
| 1. Power button                      | 2. Optical drive*                    |
| 3. 7 in 1 card reader slot*          | 4. Microphone connector              |
| 5. Headset connector                 | 6. USB 2.0 connectors (2)            |
| 7. USB 3.2 connectors Gen 1 (2)      | 8. Optical drive activity indicator* |
| 9. Optical drive eject/close button* |                                      |

\* for selected models

IdeaCentre 3 07IMB05



|                                      |                                      |
|--------------------------------------|--------------------------------------|
| 1. Power button                      | 2. Optical drive*                    |
| 3. 7 in 1 card reader slot*          | 4. Microphone connector              |
| 5. Headset connector                 | 6. USB 3.2 connectors Gen 1 (4)      |
| 7. Optical drive activity indicator* | 8. Optical drive eject/close button* |

\* for selected models

Power indicator

Show the system status of your computer.

- **Blinking for three times:** The computer is initially connected to power.
- **On:** The computer is on.
- **Off:** The computer is off or in hibernation mode.
- **Blinking rapidly:** The computer is entering sleep or hibernation mode.
- **Blinking slowly:** The computer is in sleep mode.

Headset connector (for IdeaCentre 3 07IMB05 only)

The headset connector is compatible with:

- Headphones or earphones with a 3.5mm (0.14 inch), TRS (3-pole) plug.
- Headsets with a 3.5mm (0.14 inch), CTIA-compliant TRRS (4-pole) plug.

**Note:** This headset connector does not support standalone external microphones with a TRS (3-pole) plug or headsets with an OMTP-compliant TRRS (4-pole) plug.



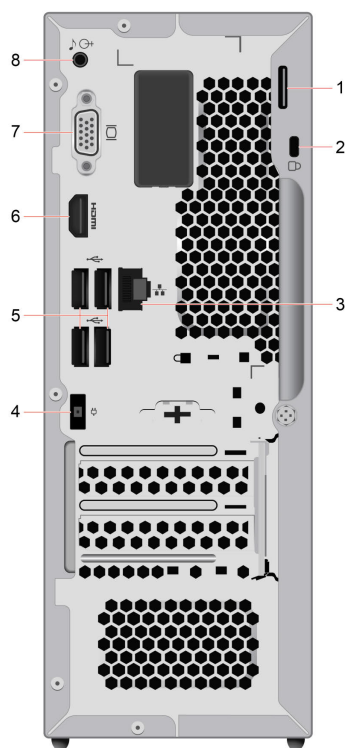
**Related topics**

- “Use the optical drive (for selected models)” on page 12.
- “Set the power plan” on page 11.
- “Statement on USB transfer rate” on page 6.

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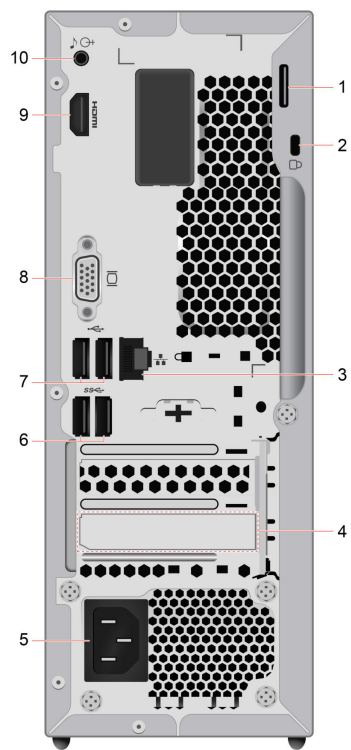
## Rear

### IdeaCentre 3 07ADA05



|                           |                             |
|---------------------------|-----------------------------|
| 1. Padlock loop           | 2. Security-lock slot       |
| 3. Ethernet connector     | 4. Power adapter connector  |
| 5. USB 2.0 connectors (4) | 6. HDMI™ 1.4 out connector  |
| 7. VGA-out connector      | 8. Audio line-out connector |

IdeaCentre 3 07IMB05



|                            |                                 |
|----------------------------|---------------------------------|
| 1. Padlock loop            | 2. Security-lock slot           |
| 3. Ethernet connector      | 4. PCI-Express card area*       |
| 5. Power cord connector    | 6. USB 3.2 connectors Gen 1 (2) |
| 7. USB 2.0 connectors (2)  | 8. VGA-out connector            |
| 9. HDMI™ 1.4 out connector | 10. Audio line-out connector    |

\* for selected models

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## Features and specifications

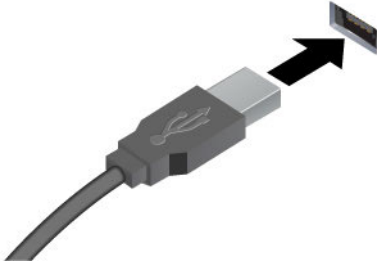



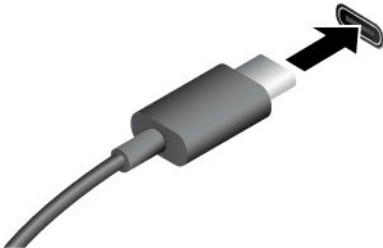




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|                                      |                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hardware</b>                      | To view the hardware information of your computer, type device manager in the Windows search box and then press Enter.                                                                                                                                                                                                                                                  |
| <b>ac power adapter</b>              | IdeaCentre 3 07ADA05 model <ul style="list-style-type: none"><li>• 90 W</li></ul>                                                                                                                                                                                                                                                                                       |
| <b>Power supply</b>                  | IdeaCentre 3 07IMB05 model <ul style="list-style-type: none"><li>• 180 W</li><li>• 260 W</li></ul>                                                                                                                                                                                                                                                                      |
| <b>Adaptability for power supply</b> | <ul style="list-style-type: none"><li>• Mainland China: 220 V±22 V, 50 Hz±1 Hz</li><li>• Adaptive voltage positioning: 90 V to 264 V, 50/60 Hz</li></ul>                                                                                                                                                                                                                |
| <b>Microprocessor</b>                | To view the microprocessor information of your computer, type system information in the Windows search box and then press Enter.                                                                                                                                                                                                                                        |
| <b>Memory</b>                        | <ul style="list-style-type: none"><li>• IdeaCentre 3 07ADA05 model<ul style="list-style-type: none"><li>– Double data rate 4 (DDR4) small outline dual in-line memory module (SODIMM)</li></ul></li><li>• IdeaCentre 3 07IMB05 model<ul style="list-style-type: none"><li>– Double data rate 4 (DDR4) unbuffered dual in-line memory module (UDIMM)</li></ul></li></ul> |
| <b>Storage device</b>                | <p>To view the storage drive capacity of your computer, type disk management in the Windows search box and then press Enter.</p> <p><b>Note:</b> The storage drive capacity indicated by the system is less than the nominal capacity.</p>                                                                                                                              |
| <b>Expansion</b>                     | <ul style="list-style-type: none"><li>• 7 in 1 card reader slot*</li><li>• Memory slots</li><li>• Optical drive*</li></ul>                                                                                                                                                                                                                                              |
| <b>Network features</b>              | <ul style="list-style-type: none"><li>• Bluetooth</li><li>• Ethernet LAN</li><li>• Wireless LAN</li></ul>                                                                                                                                                                                                                                                               |

\* for selected models

## Statement on USB transfer rate

**Note:** Depending on the model, some USB connectors might not be available on your computer.

| Connector name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <ul style="list-style-type: none"> <li>•  USB 2.0 connector</li> <li>•  USB 3.2 connector Gen 1</li> <li>•  USB 3.2 connector Gen 2</li> </ul>                                                                                                                                                            | <p>Connect USB-compatible devices, such as a USB keyboard, USB mouse, USB storage device, or USB printer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  <ul style="list-style-type: none"> <li>•  USB-C (3.2 Gen 1) connector</li> <li>•  USB-C (3.2 Gen 2) connector</li> <li>•  Thunderbolt 3 connector (USB-C)</li> <li>•  Thunderbolt 4 connector (USB-C)</li> </ul> | <ul style="list-style-type: none"> <li>• Charge USB-C compatible devices with the output voltage and current of 5 V and 3 A.</li> <li>• Connect to an external display: <ul style="list-style-type: none"> <li>– USB-C to VGA: 1900 x 1200 pixels, 60 Hz</li> <li>– USB-C to DP: 3840 x 2160 pixels, 60 Hz</li> </ul> </li> <li>• Connect to USB-C accessories to help expand your computer functionality. To purchase USB-C accessories, go to <a href="https://www.lenovo.com/accessories">https://www.lenovo.com/accessories</a>.</li> </ul> |

### 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 / 3.1 Gen 1 | 5                  |
| 3.2 Gen 2 / 3.1 Gen 2 | 10                 |
| 3.2 Gen 2 × 2         | 20                 |
| Thunderbolt 3 (USB-C) | 40                 |
| Thunderbolt 4 (USB-C) | 40                 |





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## Chapter 2. Get started with your computer

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### 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.<br><b>Note:</b> 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —                  |
| 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.<br><b>Note:</b> For more guidance on reducing eye fatigue or eye strain, go to <a href="https://www.lenovo.com/us/en/compliance/visual-fatigue">https://www.lenovo.com/us/en/compliance/visual-fatigue</a> .                                                                                                           | Night light        |
| Adjust color temperature  | If night light mode is turned on, you can adjust the color temperature of the screen.<br><b>Note:</b> Selected Lenovo computers are low blue light certified. These computers are tested with night light turned on and color temperature set to the default value of 48.                                                                                                                                                                                                                                                                                                        | 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.<br><b>Attention:</b> 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.

---

## Connect an external display

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

### Connect a wireless display

Ensure that both your computer and the wireless display support Miracast®.

Press the **Windows** and **K** Keys, and then select a wireless display to connect.

### Change display settings

To change display settings, type display settings in the Windows search box and then press Enter.

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## Lenovo Vantage



The preinstalled Lenovo Vantage is a customized one-stop solution to help you maintain your computer with automated updates and fixes, configure hardware settings, and get personalized support.

### Access Lenovo Vantage

Type Lenovo Vantage in the search box and then press Enter.

To download the latest version of Lenovo Vantage, go to Microsoft Store and search by the app name.

### Key features

Lenovo Vantage enables you to:

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

### Notes:

- The available features vary depending on the computer model.
- Lenovo Vantage makes periodic updates of the features to keep improving your experience with your computer. The description of features might be different from that on your actual user interface.

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## Chapter 3. Explore your computer

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### Manage power

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

#### Set the power plan

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

- turn off the display: After 10 minutes
- put the computer to sleep: After 25 minutes

To awaken the computer from Sleep mode, press any key on your keyboard.

To change or customize a power plan:

1. Type power plan in the Windows search box and then press Enter.
2. Customize a power plan of your preference.

---

### Transfer data

Quickly share your files using the built-in Bluetooth technology among devices with the same features. You also can install a disc or media card to transfer data.

#### Connect to a Bluetooth-enabled device (for selected models)

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



1. Click the action center icon in the Windows notification area. Enable the Bluetooth feature.

2. Click the bluetooth options to add a bluetooth device, and then follow the on-screen instructions.

## Use the optical drive (for selected models)

If your computer has an optical drive, read the following information.

### Know the type of your optical drive

To view the type of the optical driver, type device manager in the Windows search box and then press Enter.

### Install or remove a disc

1. With the computer on, press the eject button on the optical drive. The tray slides out of the drive.
2. Insert a disc into the tray or remove a disc from the tray, and then push the tray back into the drive.

**Note:** If the tray does not slide out of the drive when you press the eject button, turn off the computer. Then, insert a straightened paper clip into the emergency-eject hole adjacent to the eject button. Use the emergency eject only in an emergency.

### Record a disc

1. Insert a recordable disc into the optical drive that supports recording.
2. Do one of the following:
  - Open Windows Media Player.
  - Double-click the ISO file.
3. Follow the on-screen instructions.

## Use a media card (for selected models)

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

### Install a media card

1. Locate the SD-card slot.
2. Ensure that the metal contacts on the card are facing the ones in the SD-card slot. Insert the card firmly into the SD-card slot until it is secured in place.

### Remove a media card

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

To remove a media card, type remove hardware and eject media in the Windows search box and then press Enter.

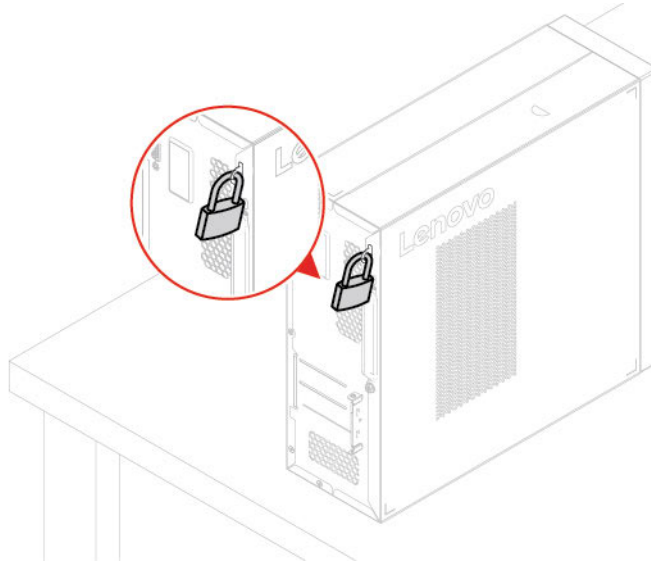
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## Lock the computer

**Note:** You are responsible for evaluating, selecting, and implementing the locking device and security feature. Lenovo makes no comments, judgments, or warranties about the function, quality, or performance of the locking device and security feature. You can purchase computer locks from Lenovo.

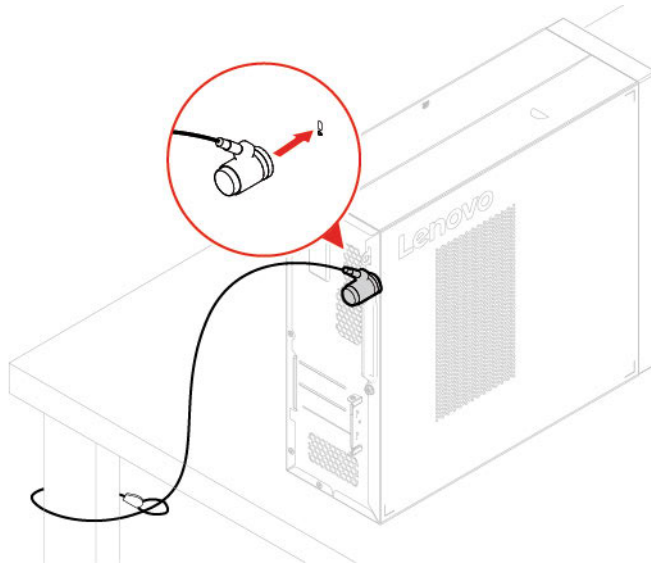
## Padlock

Locking the computer cover through a padlock prevents unauthorized access to the inside of your computer.



## Kensington-style cable lock

Lock your computer to a desk, table, or other fixtures through a Kensington-style cable lock.



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## Purchase accessories

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

To shop at Lenovo, go to <https://pcsupport.lenovo.com/warrantyupgrade>.





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## Chapter 4. CRU replacement

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### What are CRUs

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

- **Self-service CRUs:** Refer to parts that can be installed or replaced easily by customer themselves or by trained service technicians at an additional cost.
- **Optional-service CRUs:** Refer to 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 on installing the CRU, Lenovo will ship the CRU to you. CRU information and replacement instructions are shipped with your product and are available from Lenovo at any time upon request. You might be required to return the defective part that is replaced by the CRU. When return is required: (1) return instructions, a prepaid shipping label, and a container will be included with the replacement CRU; and (2) you might be charged for the replacement CRU if Lenovo does not receive the defective CRU within thirty (30) days of your receipt of the replacement CRU. For full details, see the Lenovo Limited Warranty documentation at:

[https://www.lenovo.com/warranty/llw\\_02](https://www.lenovo.com/warranty/llw_02)

Refer to the following CRU list for your computer.

#### Self-service CRUs

##### IdeaCentre 3 07ADA05

- ac power adapter
- Power cord
- Keyboard\*
- Mouse\*
- Computer cover
- Front bezel
- Optical drive\*
- Optical drive bracket\*
- Storage drive
- M.2 solid-state drive
- M.2 solid-state drive heat sink
- M.2 solid-state drive thermal pad
- Coin cell battery
- Memory module

##### IdeaCentre 3 07IMB05

- Power cord
- Keyboard\*
- Mouse\*
- Computer cover
- Front bezel
- Optical drive\*
- Optical drive bracket\*
- Storage drive
- Power supply assembly
- PCI-Express card\*
- M.2 solid-state drive
- M.2 solid-state drive heat sink
- M.2 solid-state drive thermal pad
- Coin cell battery
- Memory module

\* for selected models

## Optional-service CRUs

### IdeaCentre 3 07ADA05

- Wi-Fi card
- Wi-Fi card cover

### IdeaCentre 3 07IMB05

- Wi-Fi card
- Wi-Fi card cover

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## Replace a CRU

Follow the replacement procedure to replace a CRU.

### IdeaCentre 3 07ADA05

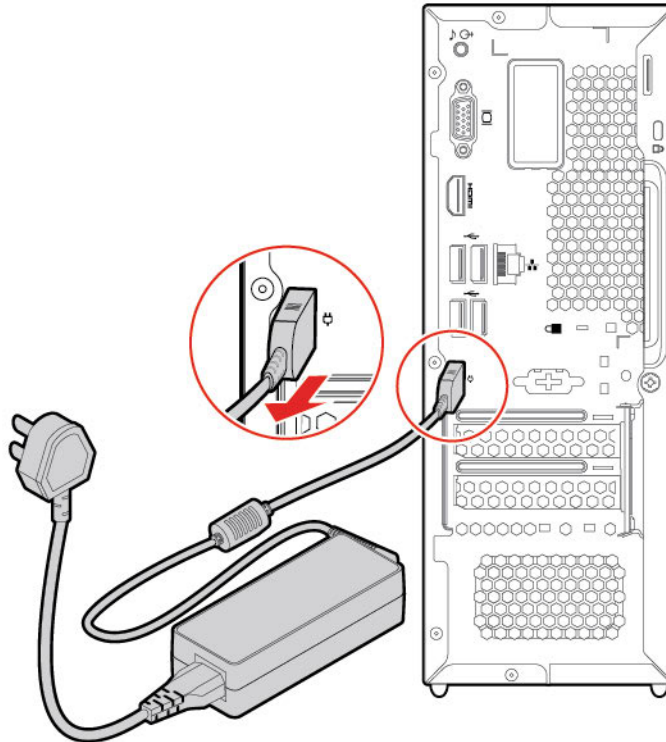
#### ac power adapter

##### Prerequisite

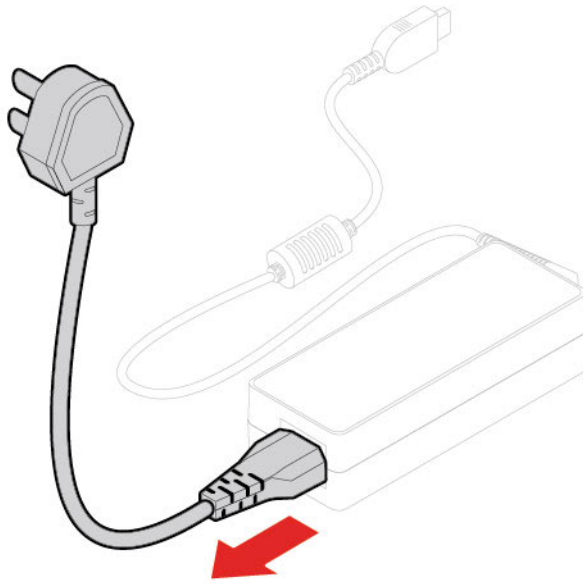
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

##### Replacement procedure

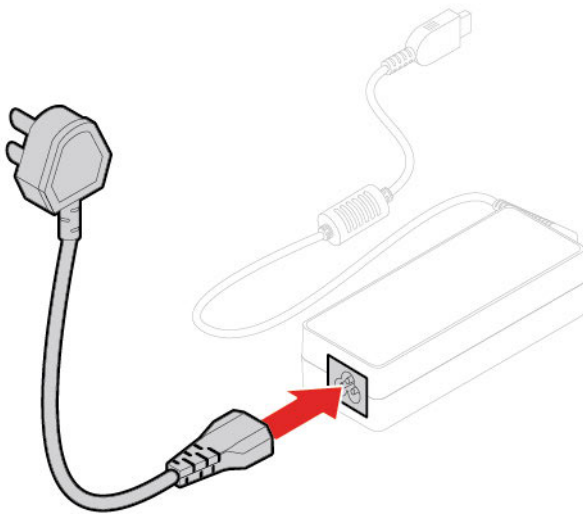
1. Turn off the computer and remove all connected devices and cables.
2. Disconnect the power cord from the electrical outlet.
3. Remove the ac power cord.



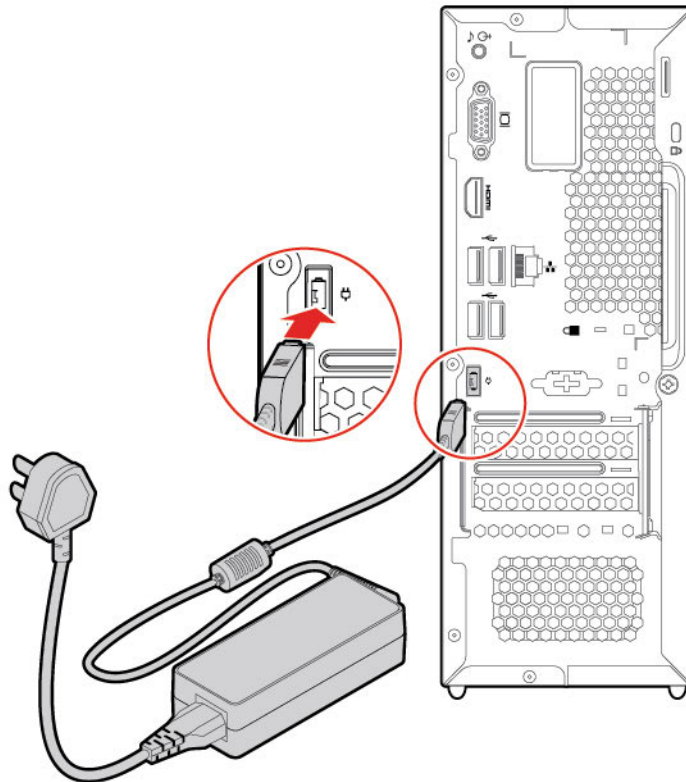
4. Remove the power cord.



5. Install the power cord.



6. Connect the new ac power adapter to the computer.



7. Reconnect all disconnected cables to the computer and reconnect the power adapter to the electrical outlet.

## Computer cover

### Prerequisite

Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

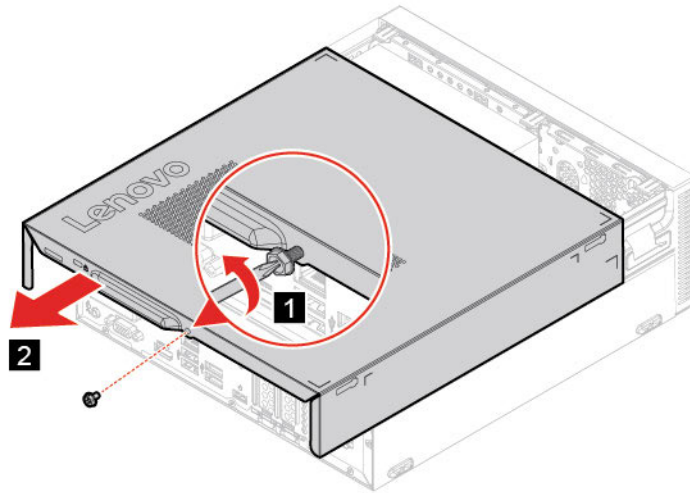


Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

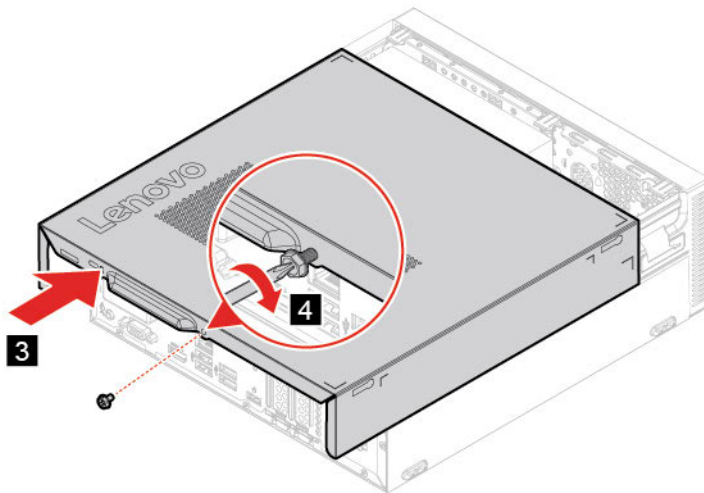
### Replacement procedure

1. Turn off the computer and remove all connected devices and cables.
2. Unlock any locking device that secures the computer cover.
3. Hold the sides of the computer and gently lay it down so that the computer cover is facing up.

4. Remove the screw and slide the computer cover out of the chassis.



5. Install the new computer cover and secure the cover with the screw.



6. Place the computer in an upright position.
7. Reconnect all disconnected cables to the computer and reconnect the ac power adapter to the electrical outlet.

**Note:** If a locking device is available, use it to lock the computer.

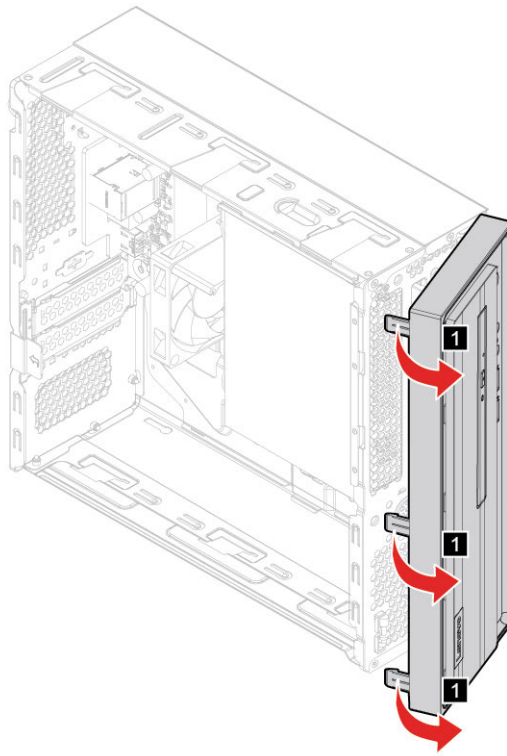
## Front bezel

### Prerequisite

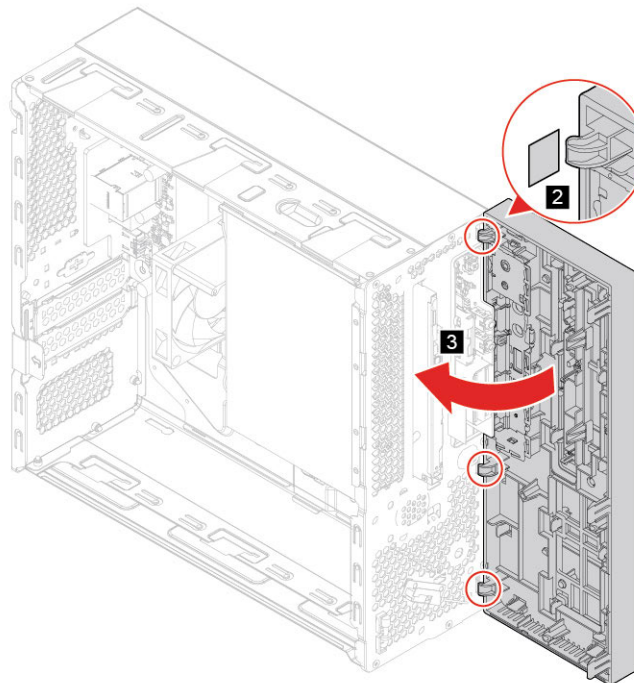
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

## Replacement procedure

1. Remove the computer cover. See “Computer cover” on page 18.
2. Remove the front bezel by releasing the three plastic tabs as shown.



3. Install the front bezel by securing the three plastic tabs as shown.





4. Reinstall all the removed parts.
5. Reconnect the ac power adapter and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

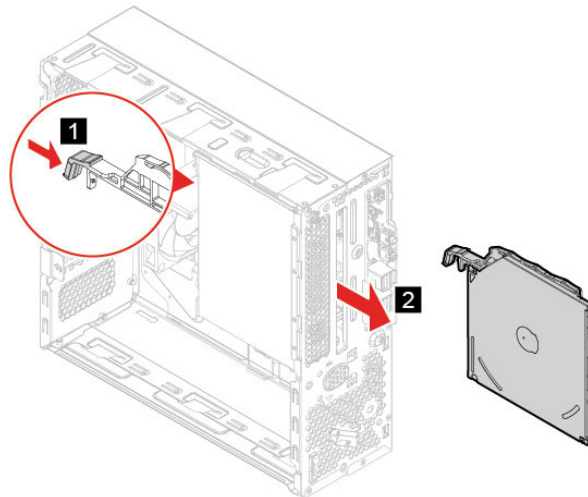
## Optical drive

### Prerequisite

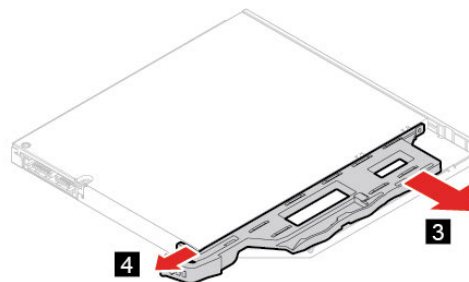
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

### Replacement procedure

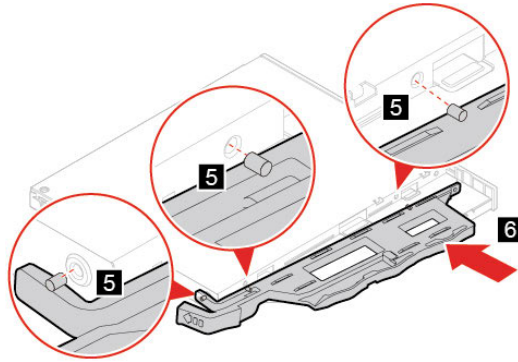
1. Remove the computer cover. See “Computer cover” on page 18.
2. Remove the front bezel. See “Front bezel” on page 19
3. Disconnect the signal cable and power cable from the rear of the optical drive.
4. Press the release button and push the optical drive straight to the front of the chassis.



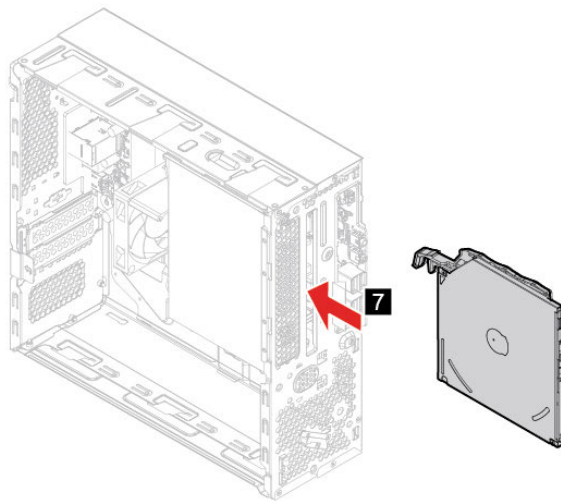
5. Detach the optical drive bracket from the optical drive.



6. Install the optical drive bracket on the optical drive.



7. Install the optical drive.



8. Connect the signal cable and the power cable to the new optical drive.
9. Reinstall all the removed parts.
10. Reconnect the power cord and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

## Storage drive

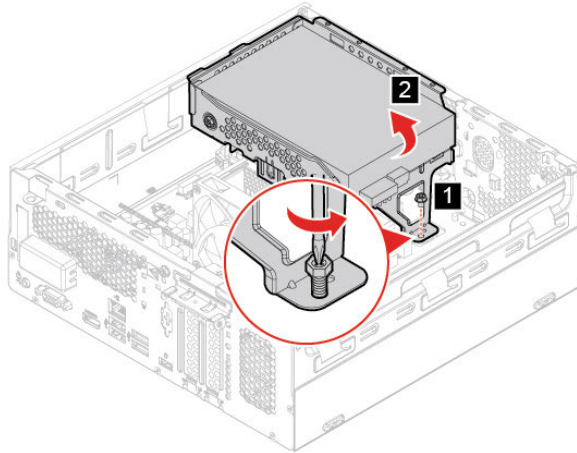
### Prerequisite

Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

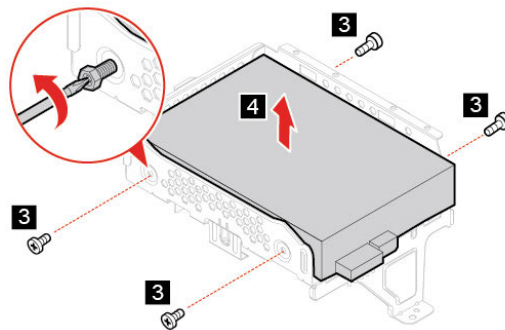
### Replacement procedure

1. Remove the computer cover. See “Computer cover” on page 18.
2. Remove the front bezel. See “Front bezel” on page 19.
3. Remove the optical drive. See “Optical drive” on page 21.

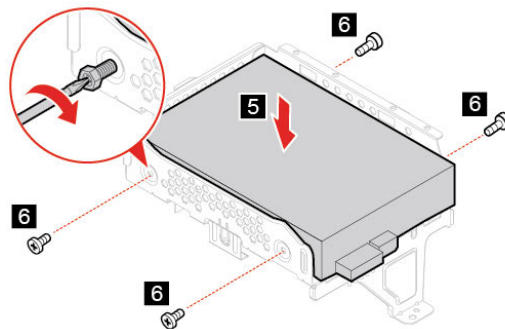
4. Disconnect the signal cable and the power cable from the storage drive.
5. Remove the screw from the bracket, and then slide the storage drive and the bracket out of the chassis.



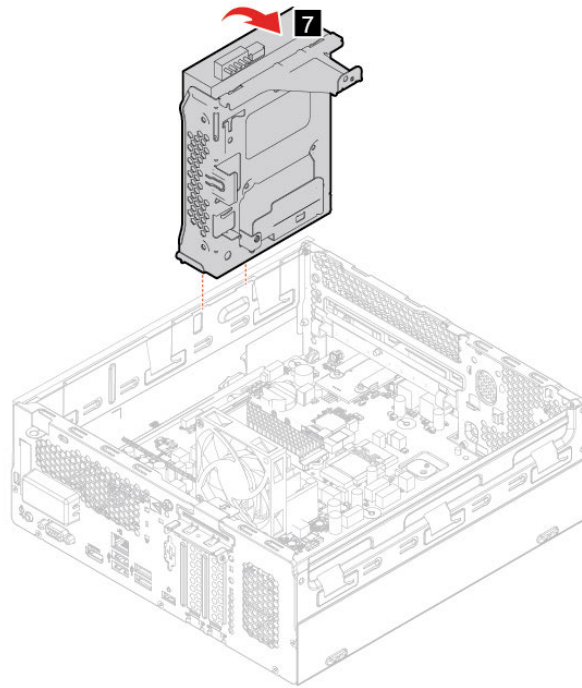
6. Remove the screws. Then, remove the storage drive from the bracket.



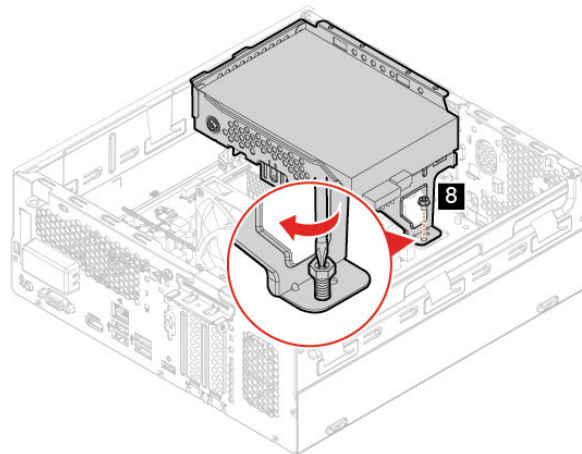
7. Install the new storage drive, then install the screws.



8. Align and slide the storage drive and bracket into the chassis as shown.



9. Install the screw.



10. Connect the signal cable and the power cable to the new storage drive.

11. Reinstall all removed parts.

12. Place the computer in an upright position. Then, reconnect the ac power adapter and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

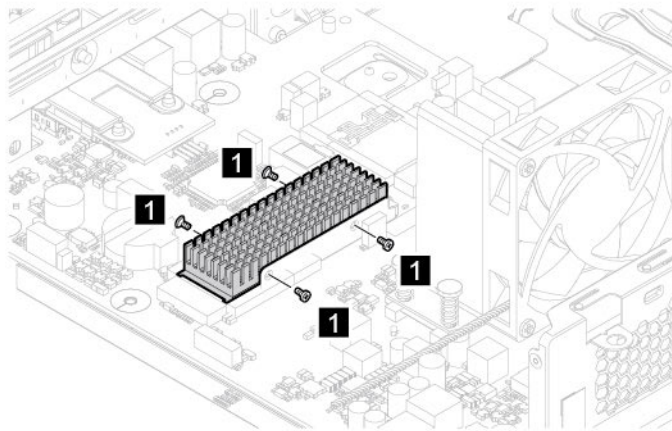
## M.2 solid-state drive

### Prerequisite

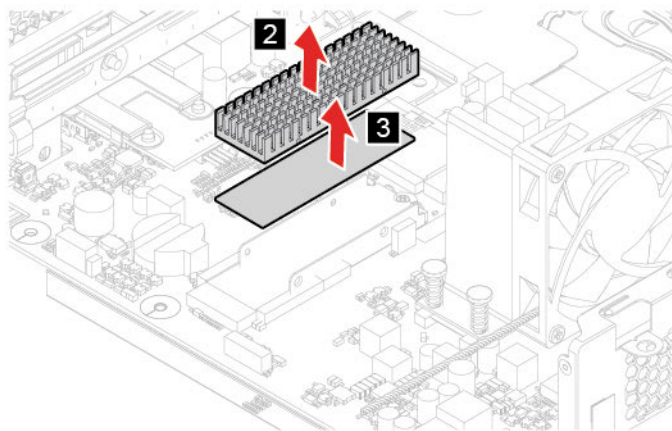
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

### Replacement procedure

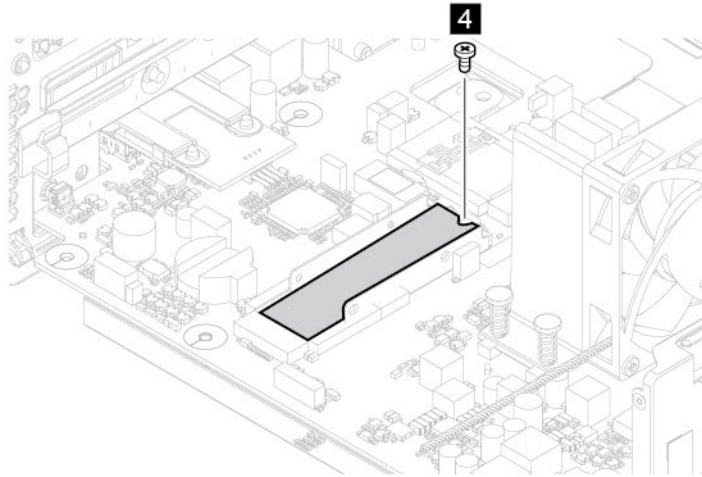
1. Remove the computer cover. See “Computer cover” on page 18.
2. Depending on your computer model, refer to one of the following to replace the M.2 solid-state drive.
3. M.2 solid-state drive (2280):
  - Remove the screws.



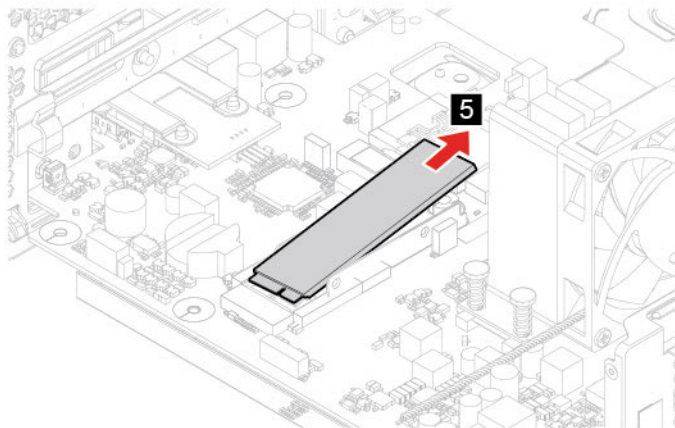
- Remove the M.2 solid-state drive heat sink and thermal pad.



- Remove the screw.

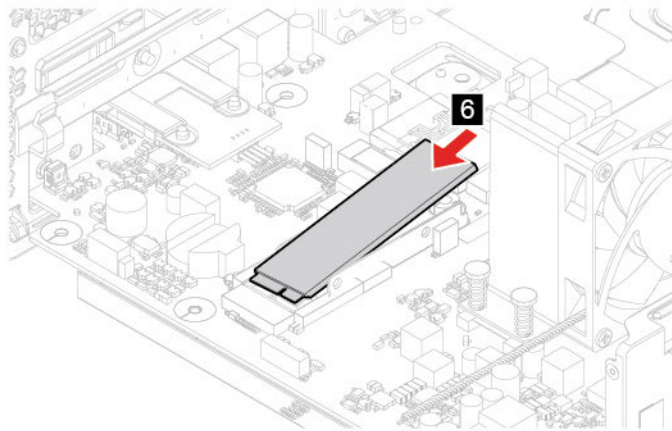


- Slide the M.2 solid-state drive (2280) out.

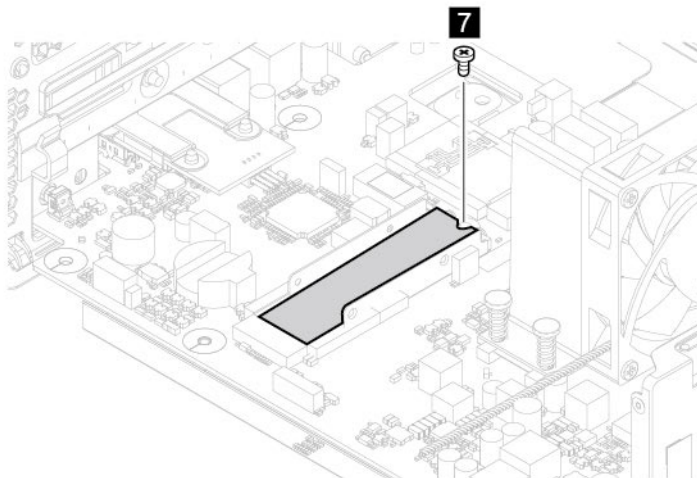




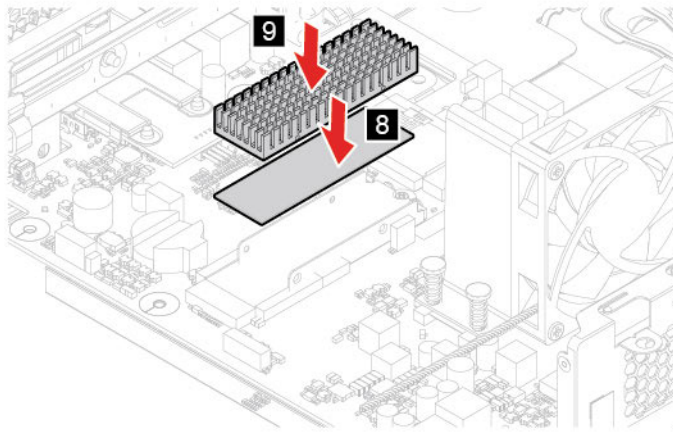
- Install the M.2 solid-state drive (2280).



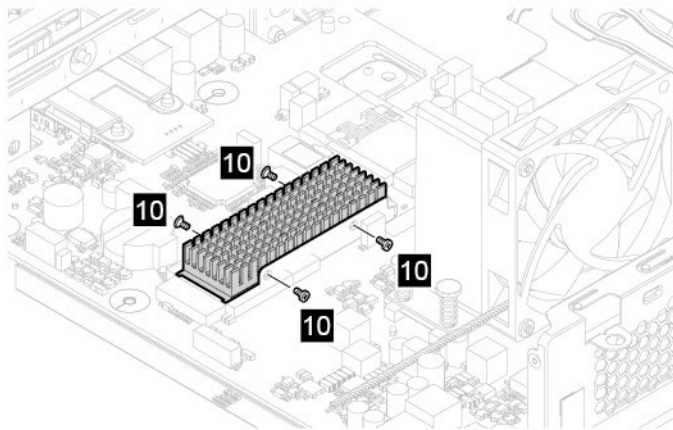
- Secure the M.2 solid-state drive (2280) with the screw.



- Install the thermal pad and the M.2 solid-state drive heat sink on the M.2 solid-state drive (2280).

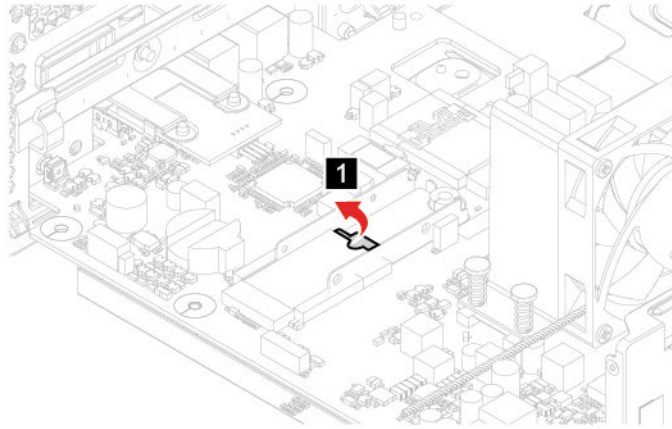


- Secure the M.2 solid-state drive heat sink with the screws.

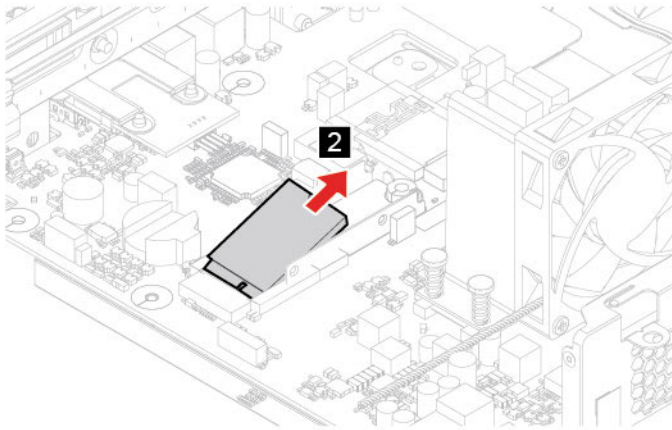


4. M.2 solid-state drive (2242):

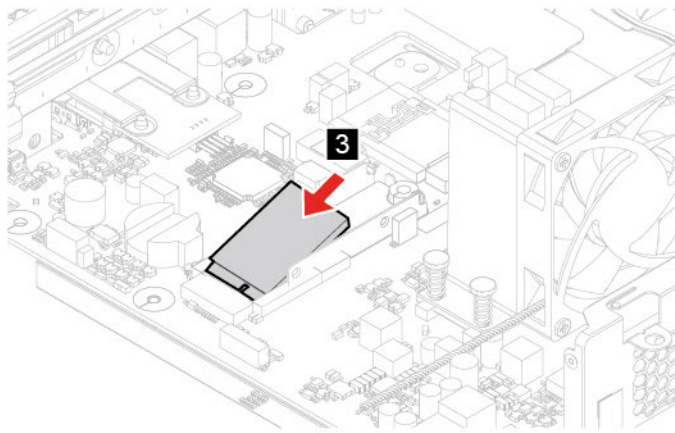
- Open the retention latch.



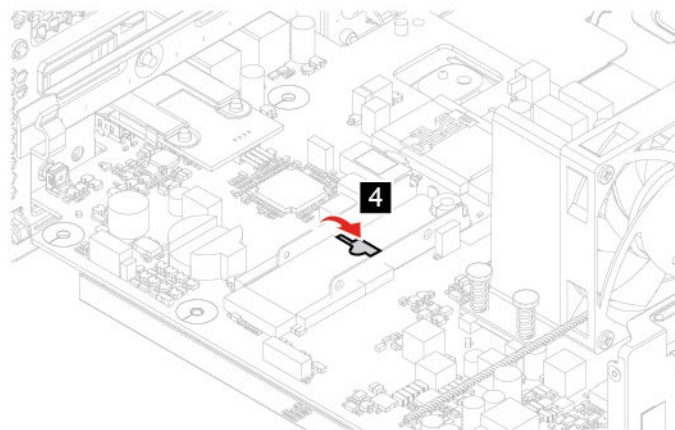
- Slide the M.2 solid-state drive (2242) out.



- Install the M.2 solid-state drive (2242).



- Close the retention latch.



5. Reinstall all removed parts.
6. Reconnect all disconnected cables to the computer and reconnect the ac power adapter to the electrical outlet.

## Coin-cell battery

### Prerequisite

Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.



**DANGER**

If the coin-cell battery is incorrectly replaced, there is danger of an explosion. The coin-cell battery contains a small amount of harmful substance. To avoid possible injury:

- Replace only with a battery of the type recommended by Lenovo.
- Keep the battery away from fire.
- Do not expose it to excessive heat.
- Do not expose it to water or rain.
- Do not short-circuit it.
- Do not drop, crush, puncture the battery, or make it subject to strong forces. Battery abuse or mishandling can cause the battery to overheat, which can cause gasses or flame to "vent" from the battery or coin-cell battery.

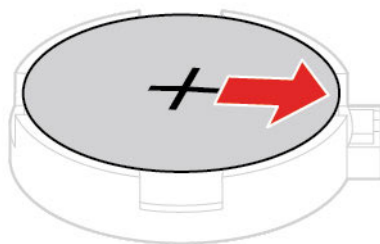
**Note:** To dispose of the coin-cell battery, refer to "Lithium coin-cell battery notice" in the *Safety and Warranty Guide*.

Your computer has a special type of memory that maintains the date, time, and settings for built-in features, such as parallel connector assignments (configurations). A coin-cell battery keeps this information active when you turn off the computer.

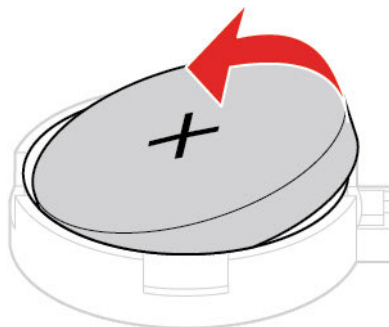
The coin-cell battery normally requires no charging or maintenance throughout its life; however, no coin-cell battery lasts forever. If the coin-cell battery fails, the date and time information is lost. An error message is displayed when you turn on the computer.

### Replacement procedure

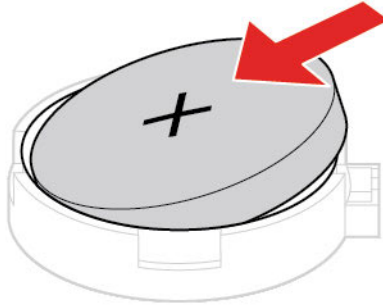
1. Remove the computer cover. See "Computer cover" on page 38.
2. Disengage the latch.



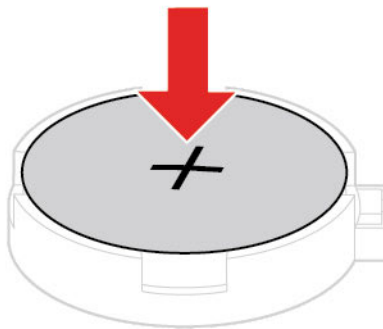
3. Remove the coin-cell battery.



4. Install the coin-cell battery.



5. Secure the coin-cell battery with the latch.



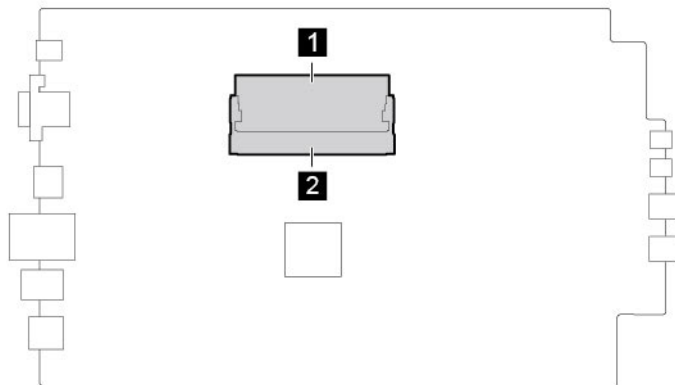
6. Reinstall all removed parts.
7. Reconnect all disconnected cables to the computer and reconnect the ac power adapter to the electrical outlet.

## Memory module

### Prerequisite

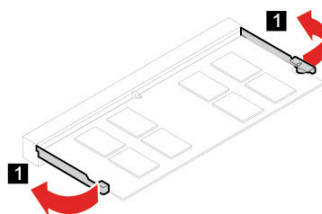
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

Ensure that you follow the installation order for memory modules shown in the following illustration.

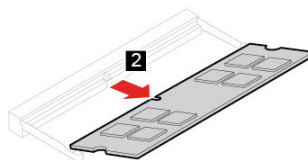


### Replacement procedure

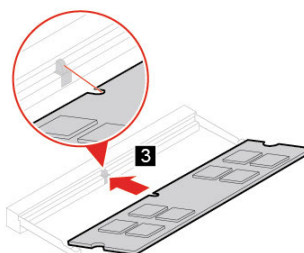
1. Remove the computer cover. See “Computer cover” on page 18.
2. Disengage the latches.



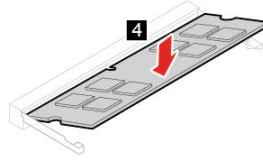
3. Remove the memory module.



4. Install a memory module.



5. Secure the memory module with the latches.



6. Reinstall all removed parts.
7. Place the computer in an upright position. Then, reconnect the ac power adapter and all disconnected cables to the computer.

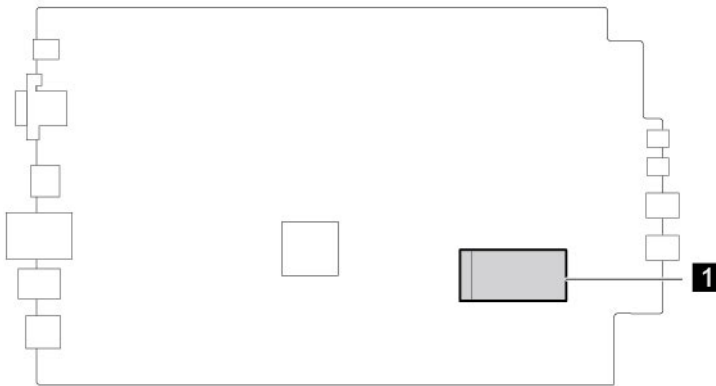
**Note:** If a locking device is available, use it to lock the computer.

## Wi-Fi card

### Prerequisite

Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

The following illustration shows the exact location of the Wi-Fi card.

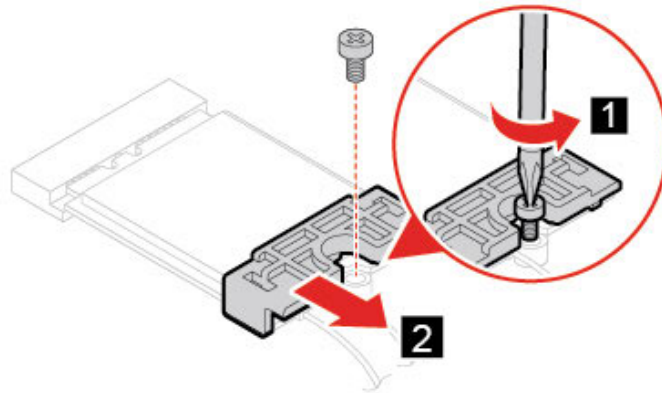


### Replacement procedure

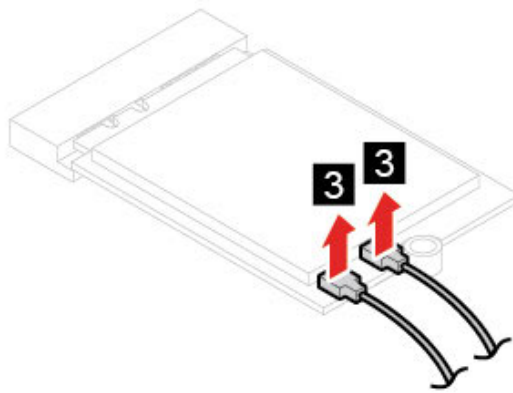
1. Remove the computer cover. See “Computer cover” on page 18.
2. Remove the front bezel. See “Front bezel” on page 19.
3. Remove the optical drive. See “Optical drive” on page 21.
4. Remove the storage drive. See “Storage drive” on page 22.



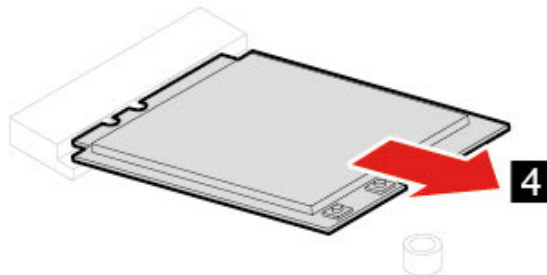
5. Remove the screw, and then remove the Wi-Fi card cover.



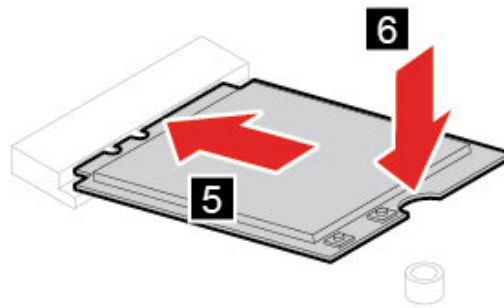
6. Disconnect the Wi-Fi antennas from the Wi-Fi card.



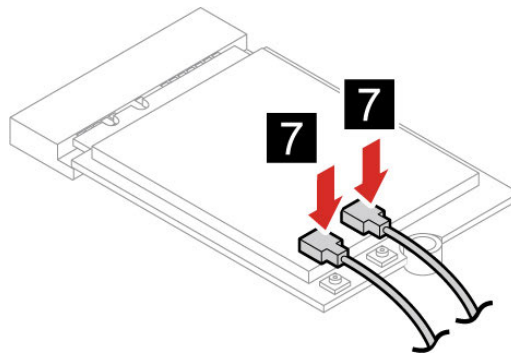
7. Remove the Wi-Fi card.



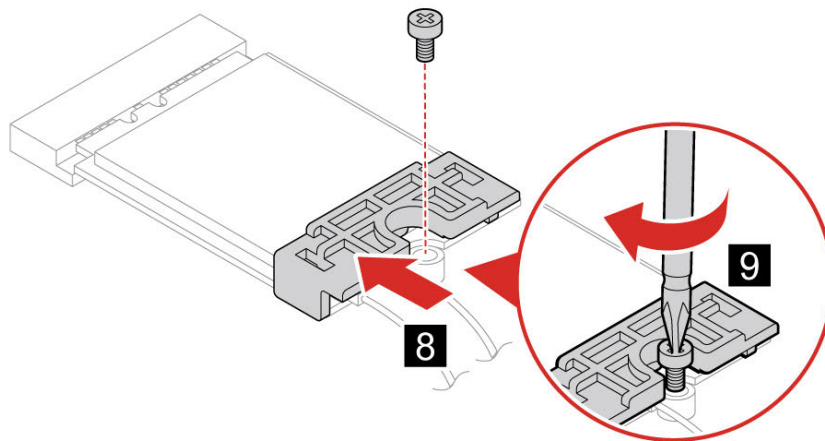
8. Install the new Wi-Fi card.



9. Connect the Wi-Fi antennas to the Wi-Fi card.



10. Install the Wi-Fi card cover.



11. Reinstall all removed parts.

12. Reconnect the ac power adapter and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

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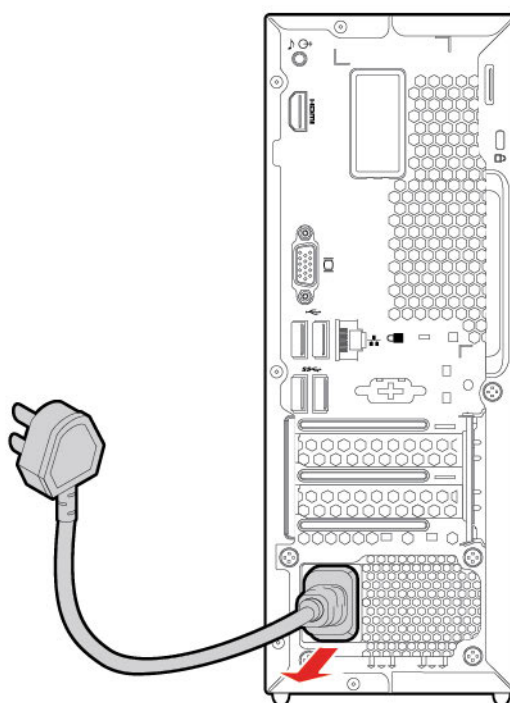
### Power cord

#### Prerequisite

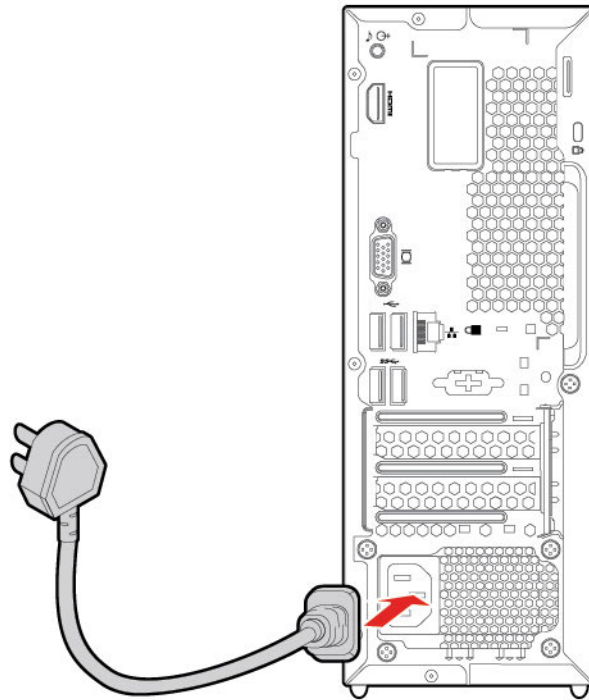
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

#### Replacement procedure

1. Turn off the computer and remove all connected devices and cables.
2. Disconnect the power cord from the electrical outlet.
3. Disconnect the power cord from the computer.



4. Connect the new power cord to the computer.



5. Reconnect all disconnected cables to the computer and reconnect the power cord to the electrical outlet.

## Computer cover

### Prerequisite

Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

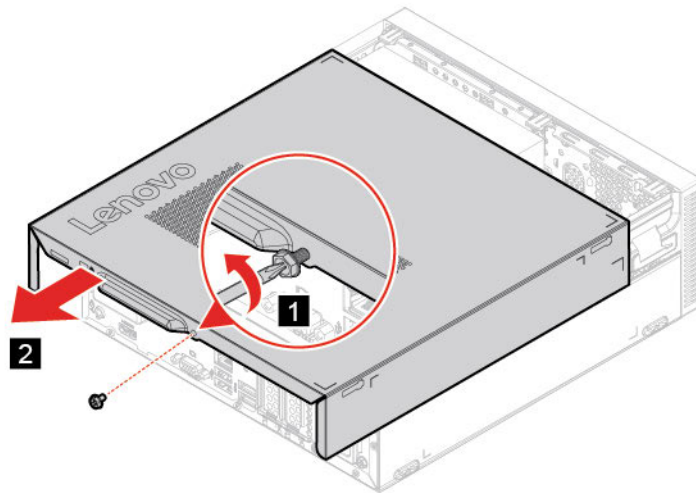


Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

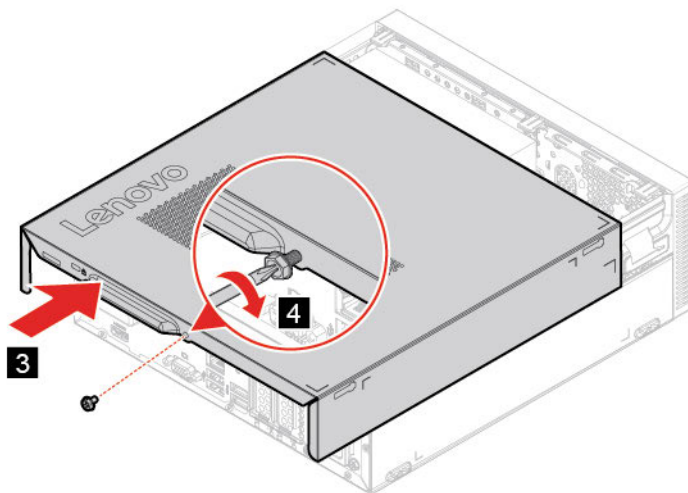
### Replacement procedure

1. Turn off the computer and remove all connected devices and cables.
2. Unlock any locking device that secures the computer cover.
3. Hold the sides of the computer and gently lay it down so that the computer cover is facing up.

4. Remove the screw and slide the computer cover out of the chassis.



5. Install the new computer cover and secure the cover with the screw.



6. Place the computer in an upright position.
7. Reconnect all disconnected cables to the computer and reconnect the power cord to the electrical outlet.

**Note:** If a locking device is available, use it to lock the computer.

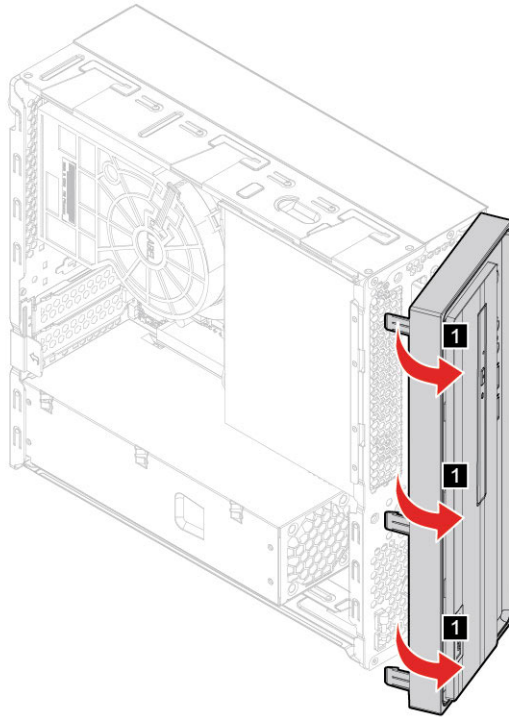
## Front bezel

### Prerequisite

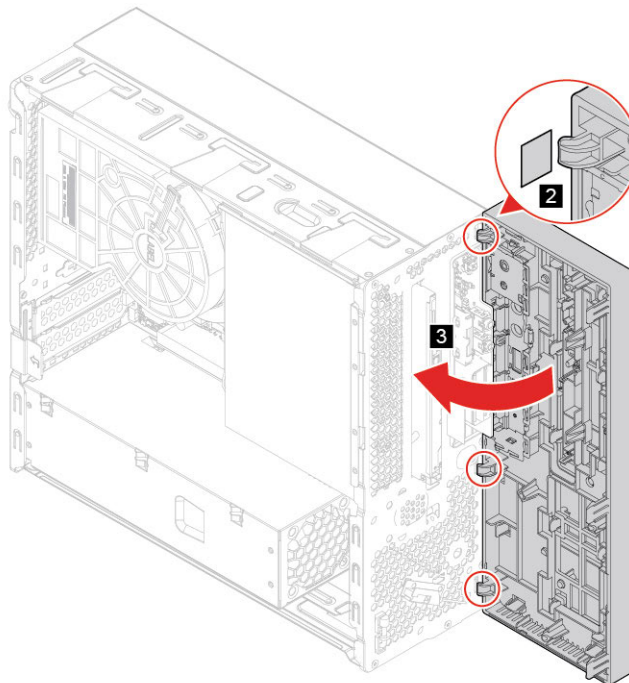
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

## Replacement procedure

1. Remove the computer cover. See “Computer cover” on page 38.
2. Remove the front bezel by releasing the three plastic tabs as shown.



3. Install the front bezel by securing the three plastic tabs as shown.



4. Reinstall all the removed parts.
5. Reconnect the power cord and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

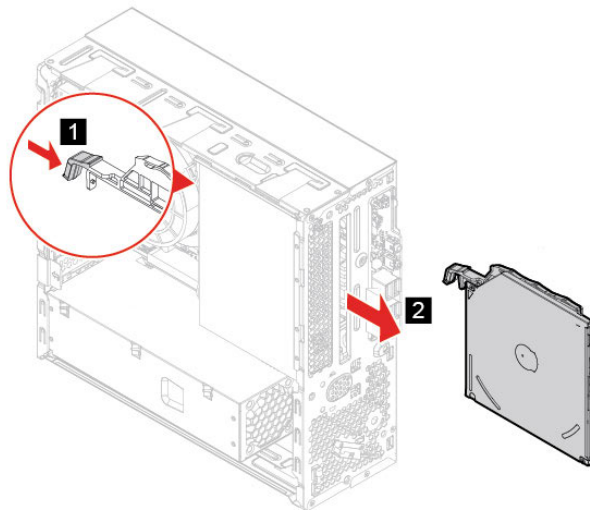
## Optical drive

### Prerequisite

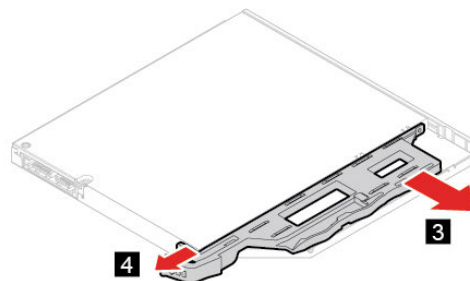
Before you start, read “Computer cover” on page 38 and print the following instructions.

### Replacement procedure

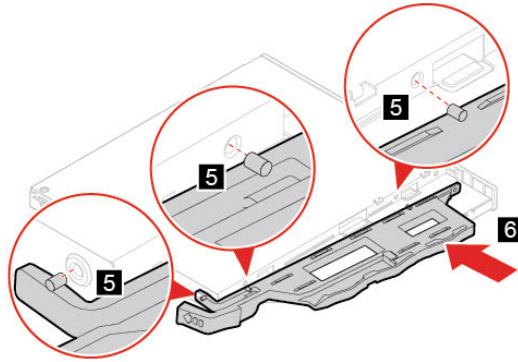
1. Remove the computer cover. See “Computer cover” on page 38.
2. Remove the front bezel. See “Front bezel” on page 39
3. Disconnect the signal cable and power cable from the rear of the optical drive.
4. Press the release button and push the optical drive straight to the front of the chassis.



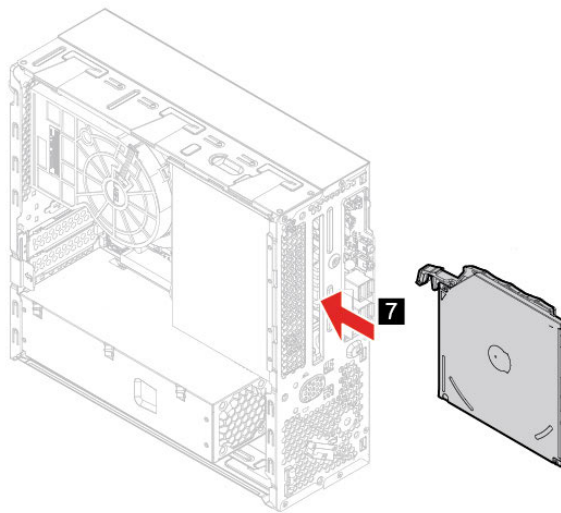
5. Detach the optical drive bracket from the optical drive.



6. Install the optical drive bracket on the optical drive.



7. Install the optical drive.



8. Connect the signal cable and the power cable to the new optical drive.
9. Reinstall all the removed parts.
10. Reconnect the power cord and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

## Storage drive

### Prerequisite

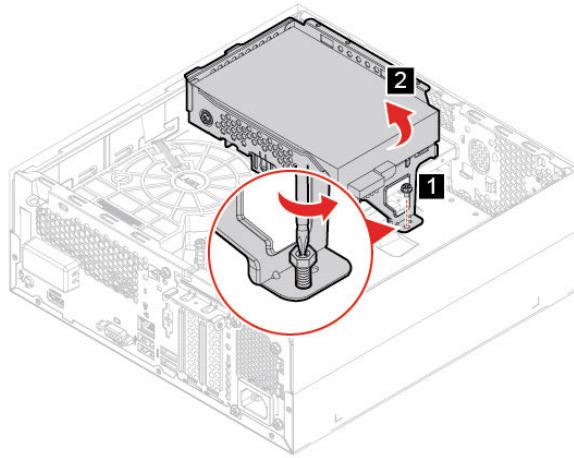
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

### Replacement procedure

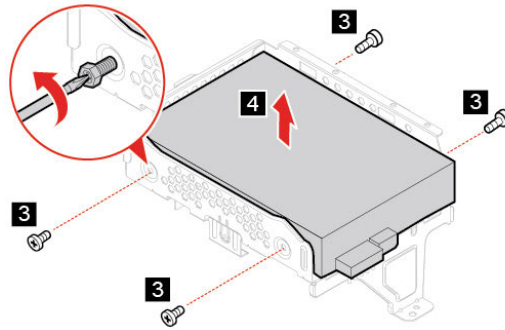
1. Remove the computer cover. See “Computer cover” on page 38.
2. Remove the front bezel. See “Front bezel” on page 39.
3. Remove the optical drive. See “Optical drive” on page 41.



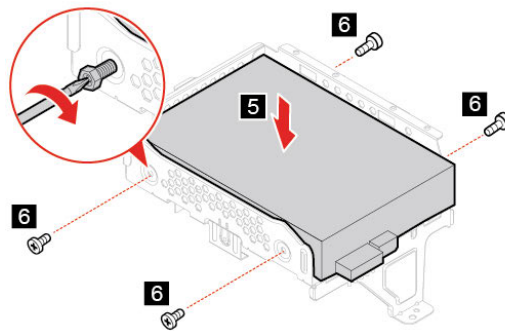
4. Disconnect the signal cable and the power cable from the storage drive.
5. Remove the screw from the bracket, and then slide the storage drive and the bracket out of the chassis.



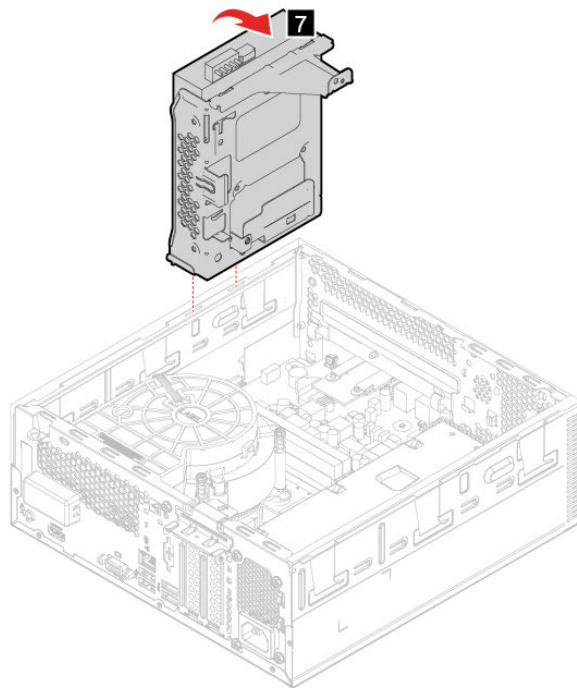
6. Remove the screws. Then, remove the storage drive from the bracket.



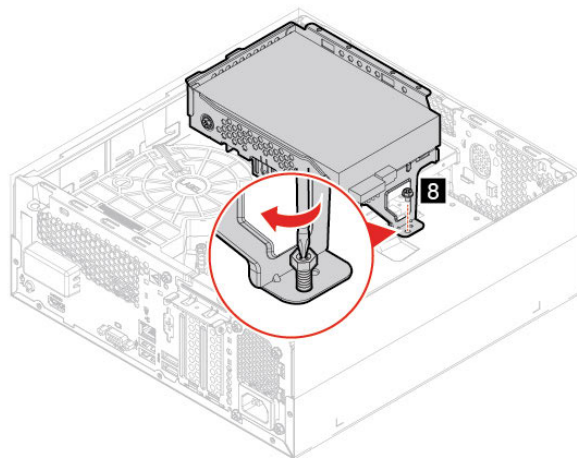
7. Install the new storage drive, then install the screws.



8. Align and slide the storage drive and bracket into the chassis as shown.



9. Install the screw.



10. Connect the signal cable and the power cable to the new storage drive.

11. Reinstall all removed parts.

12. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

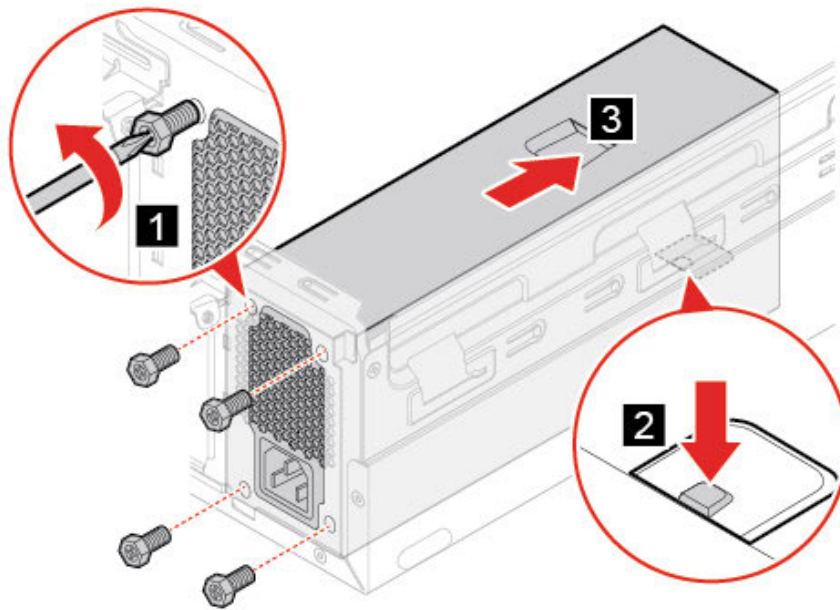
## Power supply assembly

### Prerequisite

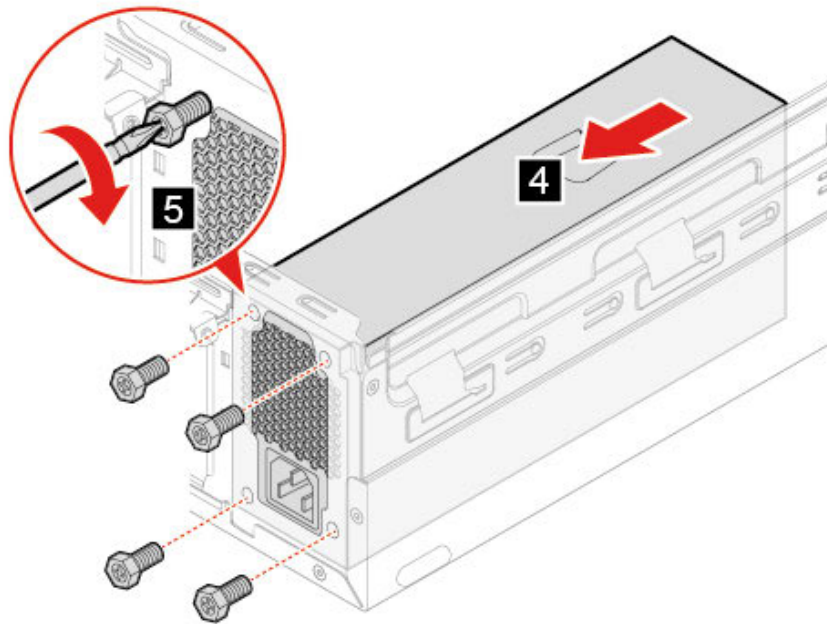
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

### Replacement procedure

1. Remove the computer cover. See “Computer cover” on page 38.
2. Remove the screws and slide the power supply assembly out.



3. Install a power supply assembly and install the screws.



4. Reinstall all removed parts.
5. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

## PCI-Express card

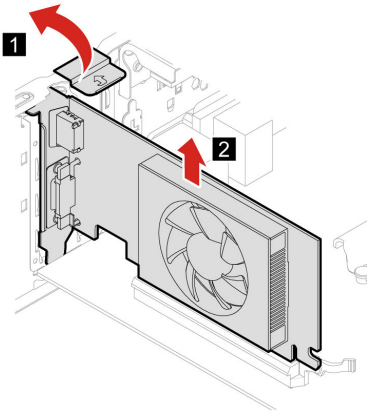
### Prerequisite

Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

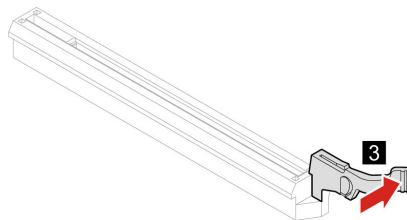
### Replacement procedure

1. Remove the computer cover. See “Computer cover” on page 38.

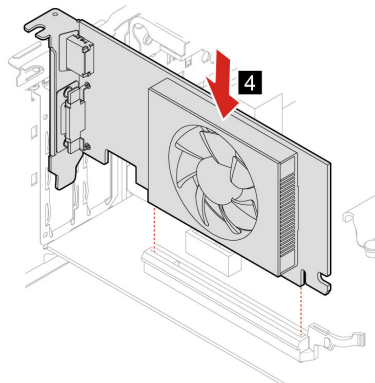
2. Remove a PCI-Express card as shown.



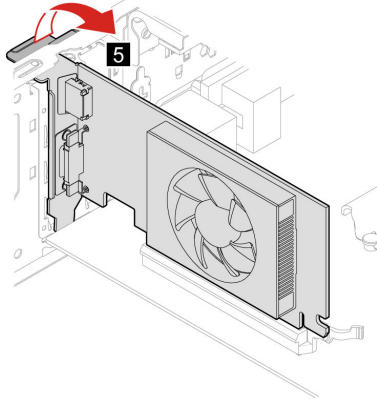
**Note:** If the card is held in place by a retaining latch, press the latch as shown to disengage the latch. Then, gently remove the card from the slot.



3. Install the new PCI-Express card as shown.



4. Secure the PCI-Express card as shown.



5. Reinstall all removed parts.
6. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

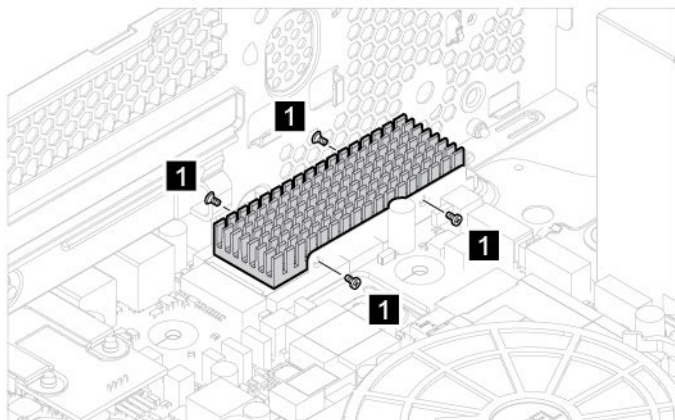
## M.2 solid-state drive

### Prerequisite

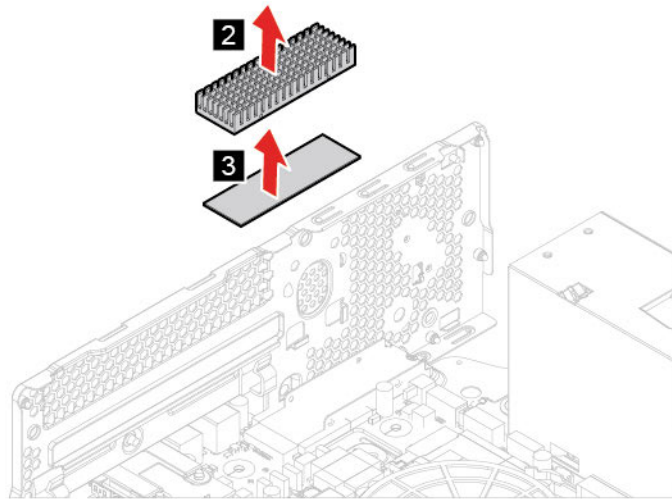
Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

### Replacement procedure

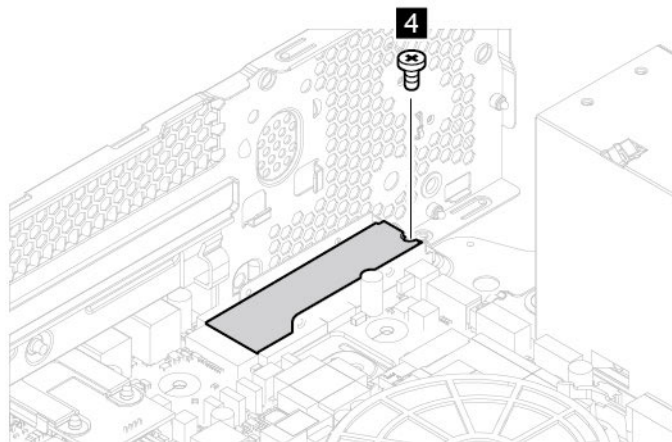
1. Remove the computer cover. See “Computer cover” on page 38.
2. Depending on your computer model, refer to one of the following to replace the M.2 solid-state drive.
3. M.2 solid-state drive (2280):
  - Remove the screws.



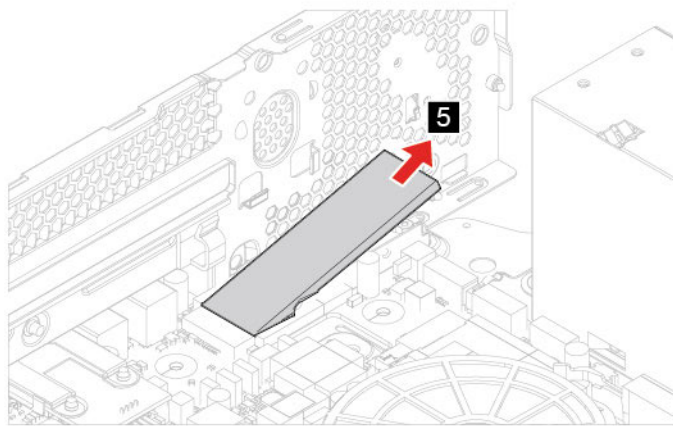
- Remove the M.2 solid-state drive heat sink and thermal pad.



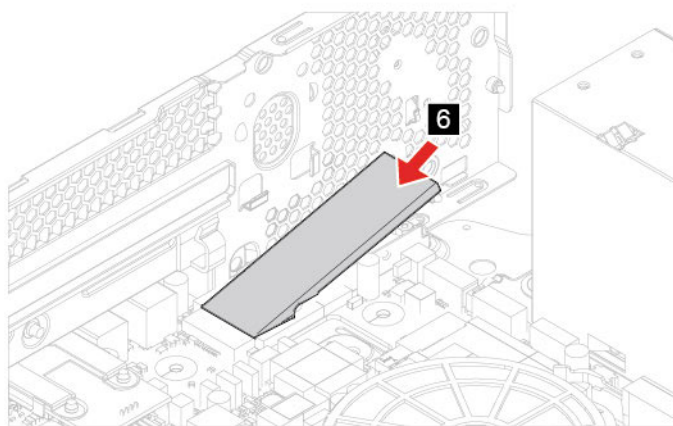
- Remove the screw.



- Slide the M.2 solid-state drive (2280) out.

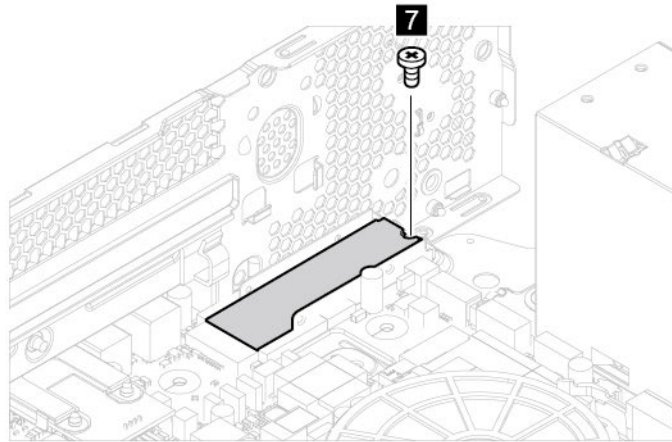


- Install the M.2 solid-state drive (2280).

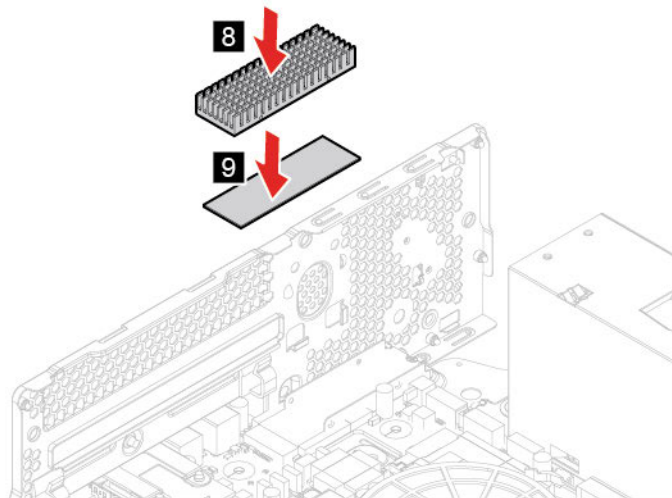




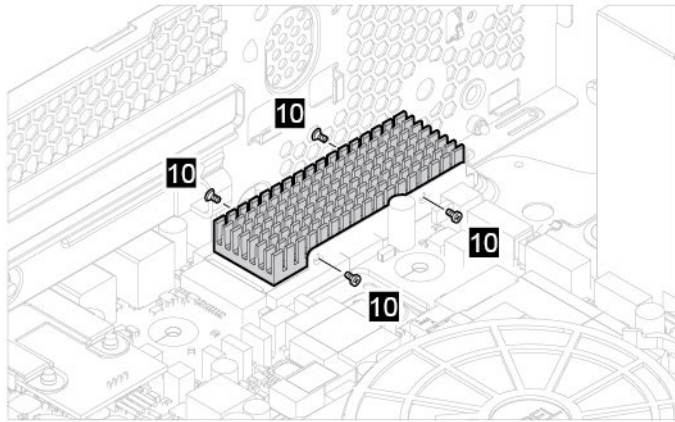
- Secure the M.2 solid-state drive (2280) with the screw.



- Install the thermal pad and the M.2 solid-state drive heat sink on the M.2 solid-state drive (2280).

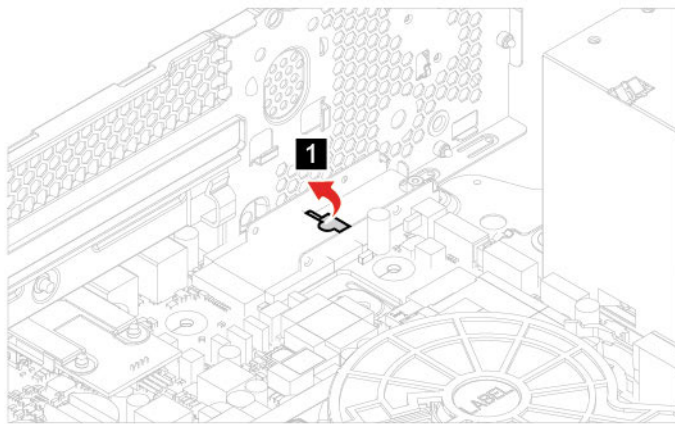


- Secure the M.2 solid-state drive heat sink with the screws.

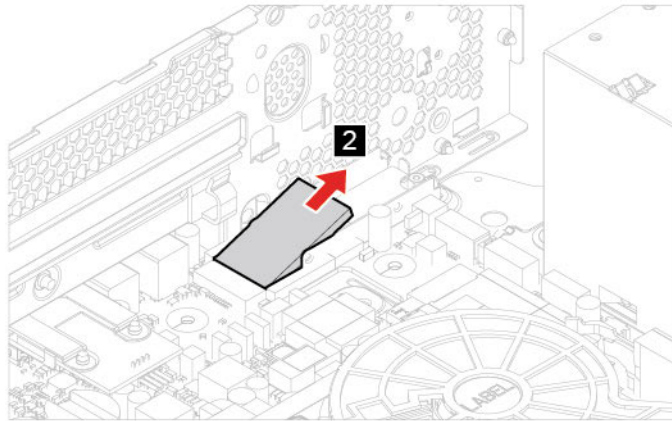


4. M.2 solid-state drive (2242):

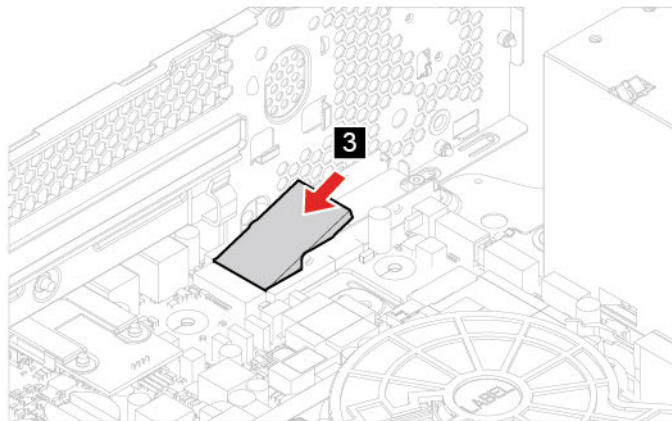
- Open the retention latch.



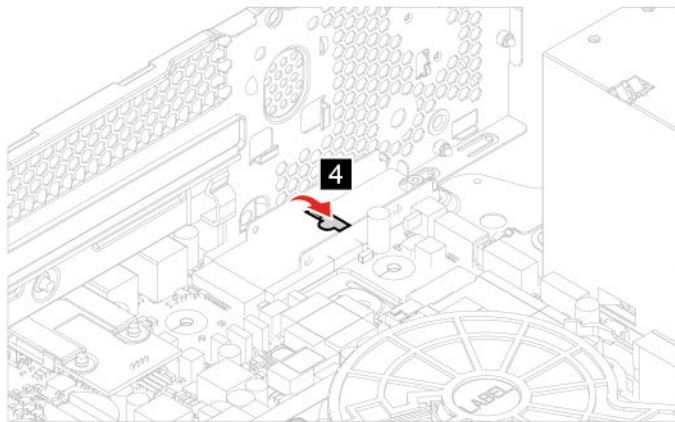
- Slide the M.2 solid-state drive (2242) out.



- Install the M.2 solid-state drive (2242).



- Close the retention latch.



5. Reinstall all removed parts.
6. Reconnect all disconnected cables to the computer and reconnect the ac power adapter to the electrical outlet.

## Coin-cell battery

### Prerequisite

Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.



**If the coin-cell battery is incorrectly replaced, there is danger of an explosion. The coin-cell battery contains a small amount of harmful substance. To avoid possible injury:**

- **Replace only with a battery of the type recommended by Lenovo.**
- **Keep the battery away from fire.**
- **Do not expose it to excessive heat.**
- **Do not expose it to water or rain.**
- **Do not short-circuit it.**
- **Do not drop, crush, puncture the battery, or make it subject to strong forces. Battery abuse or mishandling can cause the battery to overheat, which can cause gasses or flame to "vent" from the battery or coin-cell battery.**

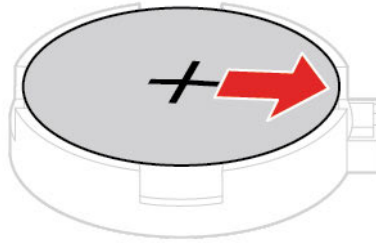
**Note:** To dispose of the coin-cell battery, refer to “Lithium coin-cell battery notice” in the *Safety and Warranty Guide*.

Your computer has a special type of memory that maintains the date, time, and settings for built-in features, such as parallel connector assignments (configurations). A coin-cell battery keeps this information active when you turn off the computer.

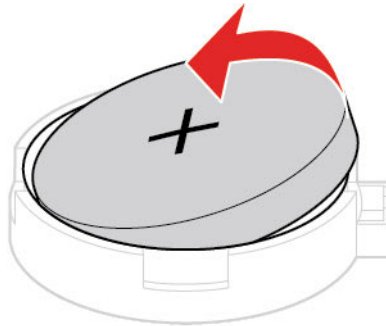
The coin-cell battery normally requires no charging or maintenance throughout its life; however, no coin-cell battery lasts forever. If the coin-cell battery fails, the date and time information is lost. An error message is displayed when you turn on the computer.

#### **Replacement procedure**

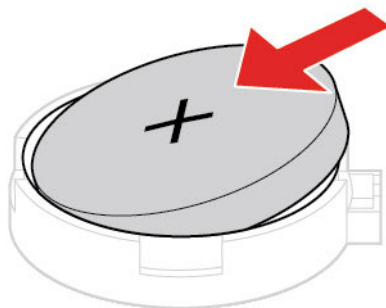
1. Remove the computer cover. See “Computer cover” on page 38.
2. Disengage the latch.



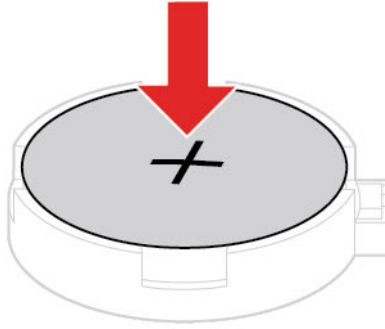
3. Remove the coin-cell battery.



4. Install the coin-cell battery.



5. Secure the coin-cell battery with the latch.



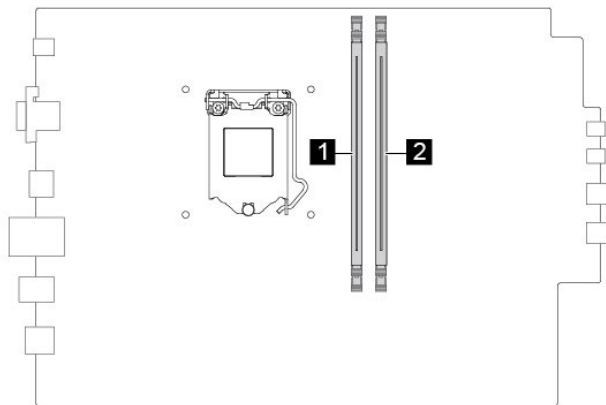
6. Reinstall all removed parts.
7. Reconnect all disconnected cables to the computer and reconnect the ac power adapter to the electrical outlet.

## Memory module

### Prerequisite

Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.

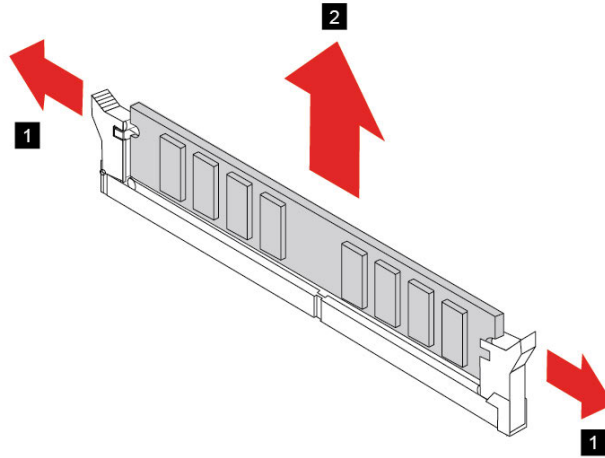
Ensure that you follow the installation order for memory module shown in the following illustration.



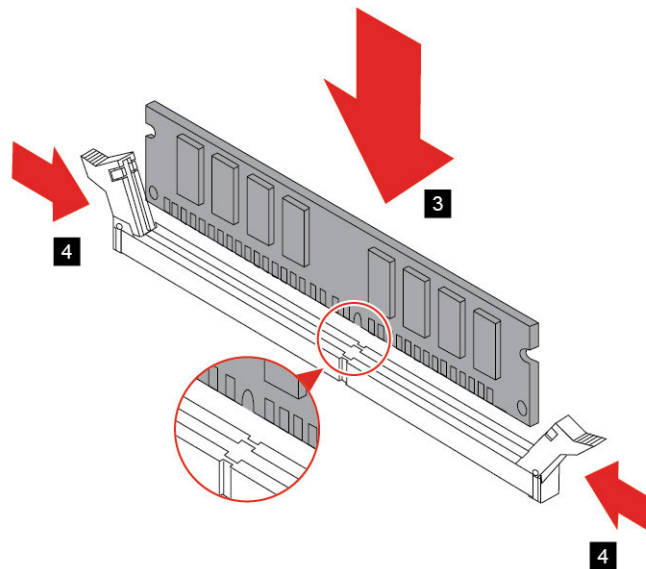
### Replacement procedure

1. Remove the computer cover. See “Computer cover” on page 38.

2. Disengage the latches and remove the memory module.



3. Install a memory module and secure the memory module with the latches.



4. Reinstall all removed parts.

5. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

## Wi-Fi card

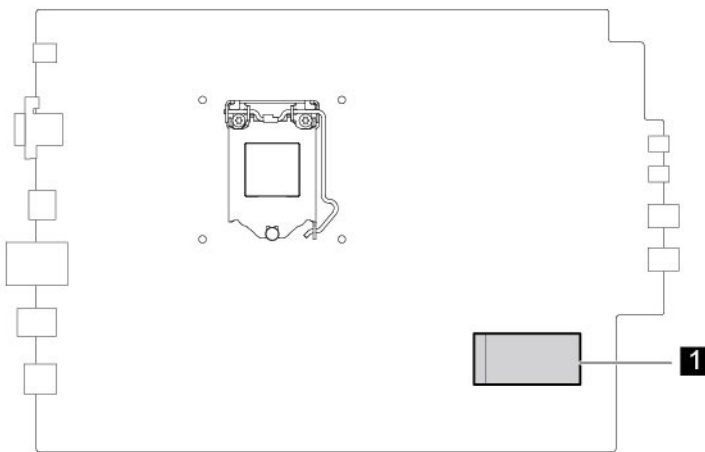
### Prerequisite

Before you start, read Appendix A “Important safety information” on page 65 and print the following instructions.



Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

The following illustration shows the exact location of the Wi-Fi card.

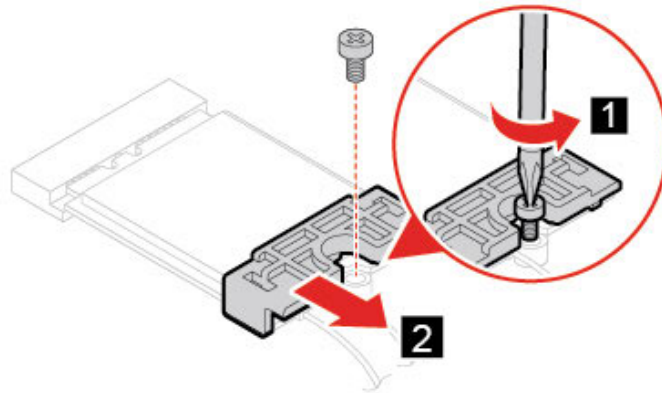


### Replacement procedure

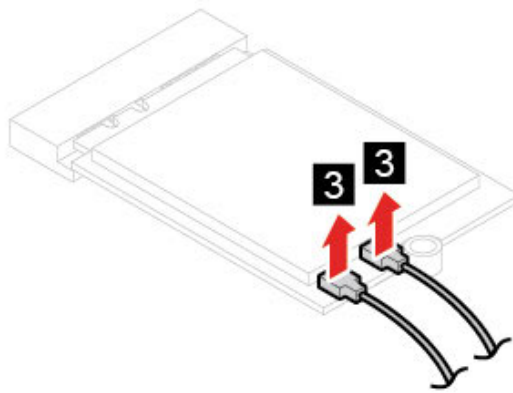
1. Remove the computer cover. See “Computer cover” on page 18.
2. Remove the front bezel. See “Front bezel” on page 19.
3. Remove the optical drive. See “Optical drive” on page 21.
4. Remove the storage drive. See “Storage drive” on page 22.



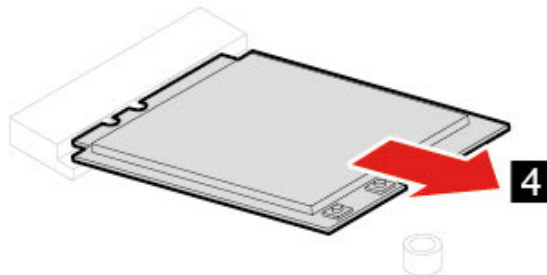
5. Remove the screw, and then remove the Wi-Fi card cover.



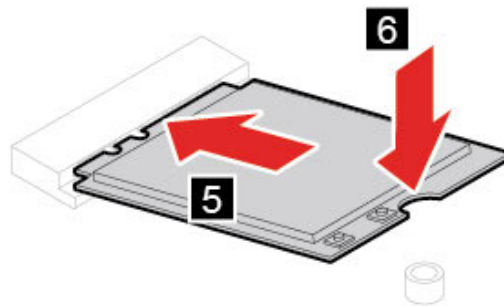
6. Disconnect the Wi-Fi antennas from the Wi-Fi card.



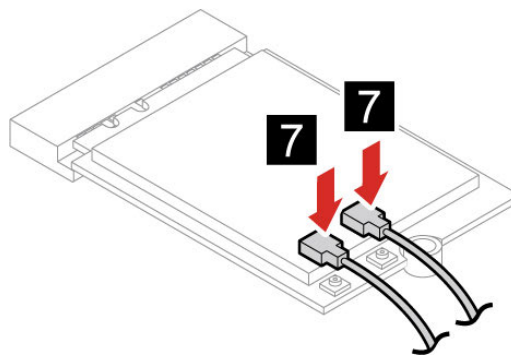
7. Remove the Wi-Fi card.



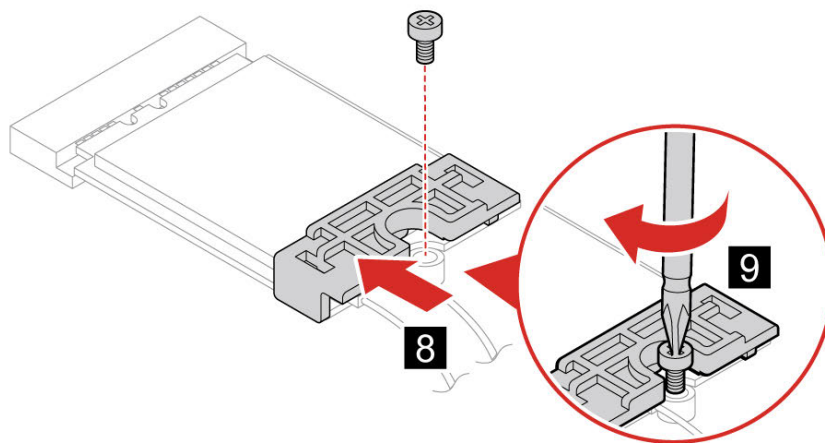
8. Install the new Wi-Fi card.



9. Connect the Wi-Fi antennas to the Wi-Fi card.



10. Install the Wi-Fi card cover.



11. Reinstall all removed parts.

12. Reconnect the ac power adapter and all disconnected cables to the computer.

**Note:** If a locking device is available, use it to lock the computer.

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## Chapter 5. Help and support

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### Frequently asked questions

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|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| How do I partition my storage drive?                     | Refer to <a href="https://support.lenovo.com/solutions/ht503851">https://support.lenovo.com/solutions/ht503851</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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?      | <ol style="list-style-type: none"><li>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.</li></ol> <p><b>Attention:</b> Although you might lose some data or work by turning off the computer immediately, leaving the computer on might make your computer unusable.</p> <ol style="list-style-type: none"><li>2. Wait until you are certain that all the liquid is dry before turning on your computer.</li></ol> <p><b>CAUTION:</b><br/><b>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.</b></p> |
| Where can I get the latest device drivers and UEFI/BIOS? | <ul style="list-style-type: none"><li>• Lenovo Vantage or Lenovo PC Manager</li><li>• Lenovo Support Web site at <a href="https://support.lenovo.com">https://support.lenovo.com</a></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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

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| Resources                                                                                                                                                                                                                                                                                                                                                                                  | How to access?                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Use Lenovo Vantage to:</p> <ul style="list-style-type: none"> <li>• Configure device settings.</li> <li>• Download and install UEFI BIOS, drivers and firmware updates.</li> <li>• Secure you computer from outside threats.</li> <li>• Diagnose hardware problems.</li> <li>• Check the computer warranty status.</li> <li>• Access <i>User Guide</i> and helpful articles.</li> </ul> | Type Lenovo Vantage in the search box and then press Enter.                                                                                                                                                                                                                       |
| <p>Product documentation:</p> <ul style="list-style-type: none"> <li>• <a href="#">Generic Safety and Compliance Notices</a></li> <li>• <i>Safety and Warranty Guide</i></li> <li>• <i>Setup Guide</i></li> <li>• This <i>User Guide</i></li> <li>• <i>Regulatory Notice</i></li> </ul>                                                                                                    | Go to <a href="https://pcsupport.lenovo.com">https://pcsupport.lenovo.com</a> . Then, follow the on-screen instructions to 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"> <li>• Drivers and software</li> <li>• Diagnostic solutions</li> <li>• Product and service warranty</li> <li>• Product and parts details</li> <li>• Knowledge base and frequently asked questions</li> </ul>                                                        | Go to <a href="https://support.lenovo.com">https://support.lenovo.com</a> .                                                                                                                                                                                                       |
| Windows help information                                                                                                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>• Use <b>Get Help</b> or <b>Tips</b>.</li> <li>• Use Windows Search or the Cortana® personal assistant.</li> <li>• Go to Microsoft support Web site: <a href="https://support.microsoft.com">https://support.microsoft.com</a>.</li> </ul> |

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## Call Lenovo

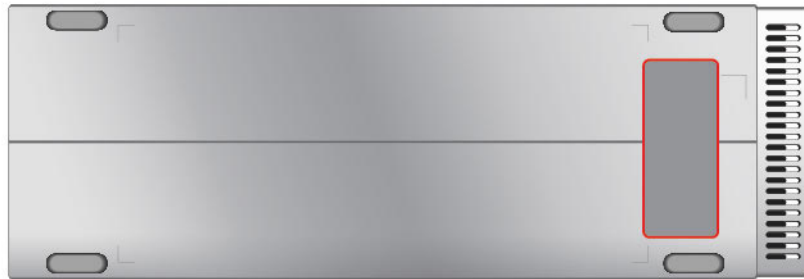
If you have tried to correct the problem yourself and still need help, you can call Lenovo Customer Support Center.

## Before you contact Lenovo

Prepare the following before you contact Lenovo:

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

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



## 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.

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## **Purchase additional services**

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

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

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## Appendix A. Important safety information

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### Safety notices

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

Customer safety is important. Our products are developed to be safe and effective. However, personal computers are electronic devices. Power cords, power adapters, and other features can create potential safety risks that can result in physical injury or property damage, especially if misused. To reduce these risks, follow the instructions included with your product, observe all warnings on the product and in the operating instructions, and review the information included in this document carefully. By carefully following the information contained in this document and provided with your product, you can help protect yourself from hazards and create a safer computer work environment. If the computer is used in a manner not specified by the manufacturer, the protection provided by the computer may be impaired.

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

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### Conditions that require immediate action

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

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

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

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

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

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

- Power cords, plugs, power adapters, extension cords, surge protectors, or power supplies that are cracked, broken, or damaged.

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

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

---

## Service and upgrades

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

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

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



### Moving Parts:

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



### Hot Surface:

Avoid contact with hot components inside the computer. During operation, some components become hot enough to burn the skin. Before you open the computer cover, turn off the computer, disconnect power, and wait approximately 10 minutes for the components to cool.



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





#### Sharp Edges:

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

---

## Power cords and power adapters



### DANGER

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

**The power cords shall be safety approved. For Germany, it shall be H03VV-F, 3G, 0.75 mm<sup>2</sup>, or better. For other countries, the suitable types shall be used accordingly.**

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

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

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

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

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

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

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

---

## Power cord notice

**Note:** The power cord and adapter provided with this product are intended to be used with this product only. Do not use them with any other products.

For your safety, Lenovo provides a power cord with a grounded attachment plug to use with this product. To avoid electrical shock, always use the power cord and plug with a properly grounded outlet.

Power cords provided by Lenovo in the United States and Canada are listed by Underwriter's Laboratories (UL) and certified by the Canadian Standards Association (CSA).

For units intended to be operated at 115 volts: Use a UL-listed and CSA-certified cord set consisting of a minimum 18 AWG, Type SVT or SJT, three-conductor cord, a maximum of 15 feet in length and a parallel blade, grounding-type attachment plug rated 10 amperes, 125 volts.

For units intended to be operated at 230 volts (U.S. use): Use a UL-listed and CSA-certified cord set consisting of a minimum 18 AWG, Type SVT or SJT, three-conductor cord, a maximum of 15 feet in length and a tandem blade, grounding-type attachment plug rated 10 amperes, 250 volts.

For units intended to be operated at 230 volts (outside the U.S.): Use a cord set with a grounding-type attachment plug. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

Power cords provided by Lenovo for a specific country or region are usually available only in that country or region.

For units intended to be operated in Germany: The power cords must be safety approved. For Germany, it must be H05VV-F, 3G, 0.75 mm<sup>2</sup>, or better. For other countries, the suitable types must be used accordingly.

For units intended to be operated in Denmark: Use a cord set with a grounding-type attachment plug. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

For units intended to be operated in Norway, Sweden, Finland: Use a cord set with a two-prong attachment plug. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

If you intend to use your PC in a country or region that is different from your ordering location, please purchase an additional Lenovo power cord for the country or region where the PC will be used. Refer to the power cord guide provided in our Web site, <https://pcsupport.lenovo.com>, for details. Some countries and regions support multiple voltages, so make sure you order the appropriate power cord for the intended voltage.

---

## Extension cords and related devices

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

---

## Plugs and outlets



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

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

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

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

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

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

Carefully connect and disconnect the equipment from the electrical outlet.

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## Power supply statement

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



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

---

## External devices

### CAUTION:

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

---

## Lithium coin-cell battery notice



|                                                                |
|----------------------------------------------------------------|
| <b>Danger of explosion if battery is incorrectly replaced.</b> |
|----------------------------------------------------------------|

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

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



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

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

### **Do not:**

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

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

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

California Perchlorate Information:

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

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

---

## Heat and product ventilation



Computers, power adapters, and many accessories can generate heat when turned on and when batteries are charging. Always follow these basic precautions:

- Do not leave your computer, power adapter, or accessories in contact with your lap or any part of your body for an extended period when the products are functioning or when the battery is charging. Your

computer, power adapter, and many accessories produce some heat during normal operation. Extended contact with the body could cause discomfort or, potentially, a skin burn.

- Do not charge the battery or operate your computer, power adapter, or accessories near flammable materials or in explosive environments.
- Ventilation slots, fans, and heat sinks are provided with the product for safety, comfort, and reliable operation. These features might inadvertently become blocked by placing the product on a bed, sofa, carpet, or other flexible surface. Never block, cover, or disable these features.

Inspect your desktop computer for dust accumulation at least once every three months. Before inspecting your computer, turn off the power and unplug the computer's power cord from the electrical outlet; then remove any dust from vents and perforations in the bezel. If you notice external dust accumulation, then examine and remove dust from the inside of the computer including heat sink inlet fins, power supply vents, and fans. Always turn off and unplug the computer before opening the cover. If possible, avoid operating your computer within two feet of high-traffic areas. If you must operate your computer in or near a high-traffic area, inspect and, if necessary, clean your computer more frequently.

For your safety and to maintain optimum computer performance, always follow these basic precautions with your desktop computer:

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

---

## Electrical current safety information



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

**To avoid a shock hazard:**

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



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

**To connect:**

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

**To disconnect:**

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

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

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



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

---

## Laser safety information

**CAUTION:**

When laser products (such as CD-ROMs, DVD drives, fiber optic devices, or transmitters) are installed, note the following:

- Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.
- Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.



Some laser products contain an embedded Class 3B laser diode. Note the following:  
Laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.

---

## Liquid crystal display (LCD) notice



### To avoid shock hazards:

- Do not remove the covers.
- Do not operate this product unless the stand is attached.
- Do not connect or disconnect this product during an electrical storm.
- The power cord plug must be connected to a properly wired and grounded power outlet.
- Any equipment to which this product will be attached must also be connected to properly wired and grounded power outlets.
- To isolate the monitor from the electrical supply, you must remove the plug from the power outlet. The power outlet should be easily accessible.

### Handling:

- If your monitor weighs more than 18 kg (39.68 lb), we recommend that it be moved or lifted by two people.

### Product disposal (TFT monitors):

- The fluorescent lamp in the liquid crystal display contains mercury; dispose according to local, state, or federal laws.

### Battery warnings:

- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

---

## Use earphones, headphones, or a headset

- If your computer has both a headphone connector and an audio line-out connector, always use the headphone connector for earphones, headphones, or a headset. However, the headphone connector does not support the microphone of the headset.
- If your computer has both a headset connector and an audio line-out connector, always use the headset connector for earphones, headphones, or a headset.



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

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

Limits) or a wide band characteristic voltage of 75 mV. Using headphones that do not comply with EN 50332-2 can be dangerous due to excessive sound pressure levels.

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

---

## Choking hazard notice



CHOKING HAZARD – Product contains small parts.

Keep away from children under three years.

---

## Plastic bag notice



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

---

## Glass parts notice

### CAUTION:

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

---

## Computer placement notices

Inappropriate computer placement might cause harm to children.

- Place the computer on a sturdy piece of low-rise furniture or furniture that has been anchored.
- Do not place the computer at the edge of the furniture.
- Keep the computer cables out of the reach of children.
- Some items, such as toys, might attract children. Keep such items away from the computer.

Supervise children in rooms where the above safety instructions cannot be fully implemented.



---

## Hazardous energy statement



**Disconnect all power cords from electrical outlets before removing the computer cover or any part that has the above label attached.**

DO NOT disassemble components that have the above label attached. There are no serviceable parts inside these components.

Your product is designed for safe use. However, hazardous voltage, current, and energy levels are present inside any component that has this label attached. Disassembling of these components might cause fire or might even result in death. If you suspect a problem with one of these parts, contact a service technician.

### CAUTION:



**Bright Light, possible skin or eye damage. Disconnect power before servicing.**

### CAUTION:



**Infrared Light, possible skin or eye damage. Disconnect power before servicing.**

---

## Eye comfort

The property of the display in combination with following notes result in reduced eye fatigue and increased comfort.

For tips on how to minimize visual fatigue, please go to <https://www.lenovo.com/us/en/safecomp/> to visit “Minimizing Visual Fatigue”.

---

## Tip-over hazard prevention notice

The computer may cause harm to children if it is not located in an appropriate place. Follow the tips below to protect children from harm caused by the computer tipping over:

- Place the computers or monitors on sturdy furniture with a low base or furniture that has been anchored. Push the computers or monitors as far from the edge of the furniture as possible..
- Keep remote controls, toys, and other items that might attract children away from the computers or monitors
- Keep the computer or monitor cables out the reach of the children.
- Supervise children in rooms where these safety tips have not been followed.

### CAUTION:

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

---

## Remote control

### CAUTION:

Do not use rechargeable batteries in this device.

---

## Static electricity prevention

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

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

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

## Operating environment

### Temperature

- Operating: From 5°C (41°F) to 35°C (95°F)
- Storage or transportation:
  - For common desktop computers: From -40°C (-40°F) to 60°C (140°F)
  - For all-in-one desktop computers: From -20°C (-4°F) to 60°C (140°F)

### Relative humidity

- Operating: 20%-80% (non-condensing)
- Storage: 10%–90% (non-condensing)

### Altitude

- Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
  - Storage: -15.2 m (-50 ft) to 12192m (40,000 ft)
- 

## Cleaning and maintenance

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

## Basic maintenance tips

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

- Keep the computer in a clean, dry environment. Ensure that the computer rests on a flat, steady surface.
- Do not cover any of air vents. These air vents provide airflow to keep the computer from overheating.
- Keep electrical appliances such as an electric fan, radio, high-powered speakers, air conditioner, and microwave oven away from your computer because the strong magnetic fields generated by these appliances can damage the monitor and data on the storage drive.
- Keep food and drinks away from all parts of the computer. Food particles and spills might make the keyboard and mouse stick and unusable.
- Do not get the power switches or other controls wet. Moisture can damage these parts and cause an electrical hazard.
- Always disconnect a power cord by grasping the plug instead of the cord.
- Keep the computer software, device drivers, and operating system up-to-date.
- Empty your recycle bin on a regular basis.
- Clean out your Inbox, Sent Items, and Deleted Items folders in your e-mail application on a regular basis.
- Clean up files and free up storage drive space and memory space occasionally to prevent performance problems.
- Keep a log book. Entries might include major software or hardware changes, device-driver updates, intermittent problems and what you did to resolve them, and other issues you might have experienced. The cause of a problem might be change in hardware, change in software, or any other actions that might have taken place. A log book can help you or a Lenovo technician determine the cause of a problem.
- Back up your data on the storage drive regularly. You can restore the storage drive from a backup.
- Create a recovery medium as early as possible. You can use the recovery medium to recover your operating system even if Windows fails to start up.
- Get the most up-to-date operating system update patches, software programs, and device drivers.

## Maintenance tips about moving the computer

Before moving the computer, take the following precautions:

1. Back up your data on the storage drive.
2. Remove any media from the drives and turn off all connected devices and the computer. Then, disconnect all power cords from electrical outlets and disconnect all cables that are connected to the computer.
3. If you saved the original shipping cartons and packing materials, use them to pack the units. If you are using different cartons, cushion the units to avoid damage.

When you move the computer to another country or region, you must take local electrical standards into consideration. If the local electrical outlet style is different from the type you are currently using, contact the Lenovo Customer Support Center to purchase either an electrical plug adapter or a new power cord.

## Clean your computer

### CAUTION:

**Remove any media from the drives and turn off all connected devices and the computer. Then, disconnect all power cords from electrical outlets and disconnect all cables that are connected to the computer.**

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

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

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

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

---

## Appendix B. Accessibility and ergonomic information

This chapter provides information about accessibility and ergonomics.

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### Accessibility information

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

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

---

### Ergonomic information

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

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

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



**General posture:** Make minor modifications in your working posture to deter the onset of discomfort caused by long periods of working in the same position. Frequent short breaks from your work also help to prevent minor discomfort associated with your working posture.

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

**Head position:** Keep your head and neck in a comfortable and neutral (vertical, or upright) position.

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

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

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

---

## Appendix C. Compliance information

For more information, refer to *Regulatory Notice* at <https://pcsupport.lenovo.com> and *Generic Safety and Compliance Notices* at [https://pcsupport.lenovo.com/docs/generic\\_notices](https://pcsupport.lenovo.com/docs/generic_notices).

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### Radio frequency compliance statements

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

Besides this document, ensure that you read the *Regulatory Notice* for your country or region before using the wireless devices contained in your computer. The *Regulatory Notice* contains specific regulatory information about these wireless devices. To access the latest *Regulatory Notice*, go to <https://support.lenovo.com>.

### Locate wireless regulatory notices

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

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



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



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

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

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

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

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

## Brazil

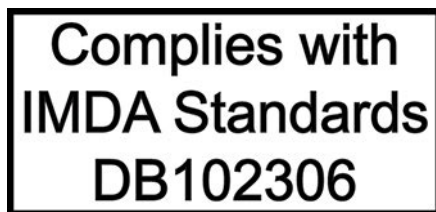
Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

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

## Mexico

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

## Singapore



## Korea

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

해당 무선설비가 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없음

### SAR 정보

본 장치는 전파 노출에 대한 가이드라인을 충족합니다.

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

---

## Environmental information of countries and regions

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

### Recycling and environmental information

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

<https://www.lenovo.com/us/en/compliance/recycling>

The latest environmental information about our products is available at:

<https://www.lenovo.com/us/en/compliance/eco-declaration>



## Important battery recycling and WEEE information

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



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

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

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

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

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

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

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

Dispose of lithium batteries and battery packs from Lenovo products:

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

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

For proper collection and treatment, go to:

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

For additional WEEE information, go to:

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

### **WEEE information for Hungary**

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

## **Japan recycling statements**

### **Collect and recycle a disused Lenovo computer or monitor**

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

[https://www.lenovo.com/us/en/social\\_responsibility/sustainability/ptb\\_japan](https://www.lenovo.com/us/en/social_responsibility/sustainability/ptb_japan)

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

[https://www.lenovo.com/us/en/social\\_responsibility/sustainability/ptb\\_japan](https://www.lenovo.com/us/en/social_responsibility/sustainability/ptb_japan)

### **Dispose of Lenovo computer components**

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

### **Dispose of disused lithium batteries from Lenovo computers**

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

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

## **Brazil recycling information**

*Declarações de Reciclagem no Brasil*

*Descarte de um Produto Lenovo Fora de Uso*

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

A Lenovo possui um canal específico para auxiliá-lo no descarte desses produtos. Caso você possua um produto Lenovo em situação de descarte, ligue para o nosso SAC ou encaminhe um e-mail para:

reciclar@lenovo.com, informando o modelo, número de série e cidade, a fim de enviarmos as instruções para o correto descarte do seu produto Lenovo.

## Recycling information for mainland China

《废弃电器电子产品回收处理管理条例》提示性说明

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

## Battery recycling information for Taiwan



廢電池請回收

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

The latest environmental information about Lenovo products is available at:  
<https://www.lenovo.com/us/en/compliance/eco-declaration>

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

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

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

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

### Turkish RoHS

The Lenovo product meets the requirements of the Republic of Turkey Directive on the Restriction of the Use of Certain Hazardous Substances in Waste Electrical and Electronic Equipment (WEEE).

### Türkiye AEEE Yönetmeliğine Uygunluk Beyanı

Bu Lenovo ürünü, T.C. Çevre ve Orman Bakanlığı'nın "Atık Elektrik ve Elektronik Eşyalarda Bazı Zararlı Maddelerin Kullanımının Sınırlandırılmasına Dair Yönetmelik (AEEE)" direktiflerine uygundur.

AEEE Yönetmeliğine Uygundur.

### Ukraine RoHS

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

### India RoHS

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

### Mainland China RoHS

#### 产品中有害物质的名称及含量

| 部件名称                                                                                                                                                                                                                                                                                                                                                                                                                   | 有害物质  |       |       |                 |               |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-----------------|---------------|-----------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                        | 铅(Pb) | 汞(Hg) | 镉(Cd) | 六价铬<br>(Cr(VI)) | 多溴联苯<br>(PBB) | 多溴二苯醚<br>(PBDE) |
| 印刷电路板组件*                                                                                                                                                                                                                                                                                                                                                                                                               | X     | O     | O     | O               | O             | O               |
| 硬盘                                                                                                                                                                                                                                                                                                                                                                                                                     | X     | O     | O     | O               | O             | O               |
| 光驱                                                                                                                                                                                                                                                                                                                                                                                                                     | X     | O     | O     | O               | O             | O               |
| 内存                                                                                                                                                                                                                                                                                                                                                                                                                     | X     | O     | O     | O               | O             | O               |
| 电脑I/O 附件                                                                                                                                                                                                                                                                                                                                                                                                               | X     | O     | O     | O               | O             | O               |
| 电源                                                                                                                                                                                                                                                                                                                                                                                                                     | X     | O     | O     | O               | O             | O               |
| 键盘                                                                                                                                                                                                                                                                                                                                                                                                                     | X     | O     | O     | O               | O             | O               |
| 鼠标                                                                                                                                                                                                                                                                                                                                                                                                                     | X     | O     | O     | O               | O             | O               |
| 机箱/ 附件                                                                                                                                                                                                                                                                                                                                                                                                                 | X     | O     | O     | O               | O             | O               |
| 液晶面板                                                                                                                                                                                                                                                                                                                                                                                                                   | X     | O     | O     | O               | O             | O               |
| 电池                                                                                                                                                                                                                                                                                                                                                                                                                     | X     | O     | O     | O               | O             | O               |
| <p>本表格依据 SJ/T 11364 的规定编制。<br/>O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。<br/>X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。<br/>注：表中标记“X”的部件，皆因全球技术发展水平限制而无法实现有害物质的替代。<br/>印刷电路板组件*：包括印刷电路板及其零部件、电容和连接器。<br/>根据型号的不同，可能不会含有以上的所有部件，请以实际购买机型为准。</p> <div><p>在中华人民共和国境内销售的电子信息产品必须标识此标志，标志内的数字代表在正常使用状态下的产品的环保使用期限。</p></div> |       |       |       |                 |               |                 |

### 中国大陆 RoHS 合格评定制度标识

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



## Taiwan RoHS

### 臺灣 RoHS - 個人電腦

| 單元      | 限用物質及其化學符號 |           |           |                            |               |                 |
|---------|------------|-----------|-----------|----------------------------|---------------|-----------------|
|         | 鉛<br>(Pb)  | 汞<br>(Hg) | 鎘<br>(Cd) | 六價鉻<br>(Cr <sup>6+</sup> ) | 多溴聯苯<br>(PBB) | 多溴二苯醚<br>(PBDE) |
| 印刷電路板組件 | —          | ○         | ○         | ○                          | ○             | ○               |
| 硬碟      | —          | ○         | ○         | ○                          | ○             | ○               |
| 光碟機     | —          | ○         | ○         | ○                          | ○             | ○               |
| 記憶體     | —          | ○         | ○         | ○                          | ○             | ○               |
| 電源供應器   | —          | ○         | ○         | ○                          | ○             | ○               |
| 鍵盤      | —          | ○         | ○         | ○                          | ○             | ○               |
| 滑鼠      | —          | ○         | ○         | ○                          | ○             | ○               |
| 機殼      | —          | ○         | ○         | ○                          | ○             | ○               |
| 配件（電源線） | —          | ○         | ○         | ○                          | ○             | ○               |
| 散熱模組    | —          | ○         | ○         | ○                          | ○             | ○               |

備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。

備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。

備考3. “—”係指該項限用物質為排除項目。

### 臺灣 RoHS - 一體機

| 單元      | 限用物質及其化學符號 |           |           |                            |               |                 |
|---------|------------|-----------|-----------|----------------------------|---------------|-----------------|
|         | 鉛<br>(Pb)  | 汞<br>(Hg) | 鎘<br>(Cd) | 六價鉻<br>(Cr <sup>6+</sup> ) | 多溴聯苯<br>(PBB) | 多溴二苯醚<br>(PBDE) |
| 印刷電路板組件 | —          | ○         | ○         | ○                          | ○             | ○               |
| 硬碟      | —          | ○         | ○         | ○                          | ○             | ○               |
| 光碟機     | —          | ○         | ○         | ○                          | ○             | ○               |
| 記憶體     | —          | ○         | ○         | ○                          | ○             | ○               |
| 電腦I/O配件 | —          | ○         | ○         | ○                          | ○             | ○               |
| 電源供應器   | —          | ○         | ○         | ○                          | ○             | ○               |
| 鍵盤      | —          | ○         | ○         | ○                          | ○             | ○               |
| 滑鼠      | —          | ○         | ○         | ○                          | ○             | ○               |
| 機殼      | —          | ○         | ○         | ○                          | ○             | ○               |
| 螢幕      | —          | ○         | ○         | ○                          | ○             | ○               |
| 配件（電源線） | —          | ○         | ○         | ○                          | ○             | ○               |
| 散熱模組    | —          | ○         | ○         | ○                          | ○             | ○               |

備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。

備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。

備考3. “—”係指該項限用物質為排除項目。

## Electromagnetic emission notices

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

The following information refers to IdeaCentre 3 07ADA05 and IdeaCentre 3 07IMB05, machine types: 90MV, 90NT, 90NB, and 90NS.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an authorized dealer or service representative for help.

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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



## **Industry Canada compliance statement**

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

## **European Union (EU) / United Kingdom (UK) – Electromagnetic Compatibility Compliance**

This product is in conformity with the protection requirements of EU Council Directive 2014/30/EU on the approximation of the laws of the Member States, as well as UK SI 2016 No. 1091 with amendments, relating to the electromagnetic compatibility limits for Class B equipment. These Class B requirements are intended to offer adequate protection to broadcast services within residential environments.

## **EU ErP (EcoDesign) Directive (2009/125/EC) - external power adapters (Regulation (EU) 2019/1782), Ecodesign for Energy-Related Products Regulations 2010 - UK SI 2010 No. 2617 (Ext PSU), SI 2020 No. 485 (Ntwk Standby), SI 2014 No. 1290 as amended**

Lenovo products are compliant with the EU EcoDesign (ErP) Directive and UK EcoDesign for Energy-related Products Regulations. Refer to the following for details. For EU, refer to the system declaration <https://www.lenovo.com/us/en/compliance/eu-doc>, and for UK refer to the system declaration <https://www.lenovo.com/us/en/compliance/uk-doc>.

## German Class B compliance statement

*Hinweis zur Einhaltung der Klasse B zur elektromagnetischen Verträglichkeit*

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

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

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

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

## Japan VCCI Class B compliance statement

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

VCCI-B

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

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

## Japan notice for ac power cord

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

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

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## Other compliance information of countries and regions

This section provides other compliance information about Lenovo products.

## Certification-related information

**Product name:** IdeaCentre 3 07ADA05 and IdeaCentre 3 07IMB05

**Machine types:** 90MV, 90NT, 90NB, and 90NS

The latest compliance information is available at:

## Export classification notice

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

## Lenovo product service information for Taiwan

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

## Taiwan precautionary vision statement

警語：使用過度恐傷害視力

注意事項：

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

## Keyboard and mouse compliance statement for Taiwan

本產品隨貨附已取得經濟部標準檢驗局認可之PS/2或USB的鍵盤與滑鼠一組

## Eurasian compliance mark



## Brazil audio notice

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

## Enable or disable the ErP LPS compliance mode

Lenovo computers meet the eco-design requirements of the ErP Lot 3 regulation. For more information, go to:

<https://www.lenovo.com/us/en/compliance/eco-declaration>

You can enable the ErP LPS compliance mode to reduce the consumption of electricity when the computer is off or in sleep mode.

To enable or disable the ErP LPS compliance mode:

1. Restart the computer. When the logo screen is displayed, press F1 or Fn+F1.
2. Select **Power** → **Enhanced Power Saving Mode** and press Enter.
3. Depending on whether you select **Enabled** or **Disabled**, do one of the following:
  - If you select **Enabled**, press Enter. Then, select **Power** → **Automatic Power On** and press Enter. Check whether the Wake on LAN feature is disabled automatically. If no, disable it.
  - If you select **Disabled**, press Enter. Then, go to the next step.
4. Press F10 or Fn+F10 to save the changes and exit.



When the ErP LPS compliance mode is enabled, you can wake up the computer by doing one of the following:

- Press the power button.
- Enable the Wake Up on Alarm feature to make the computer wake up at a set time.

To meet the off mode requirement of ErP compliance, you need to disable the Fast Startup function.

1. Go to **Control Panel** and view by large icons or small icons.
2. Click **Power Options** → **Choose what the power buttons do** → **Change settings that are currently unavailable**.
3. Clear the **Turn on fast startup (recommended)** option from the **Shutdown settings** list.

## ENERGY STAR model information



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

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

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

Lenovo encourages you to make efficient use of energy an integral part of your day-to-day operations. To help in this endeavor, Lenovo has preset a default power plan. To change the power plan, see “Set the power plan” on page 11.



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## Appendix D. Notices and trademarks

### Notices

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