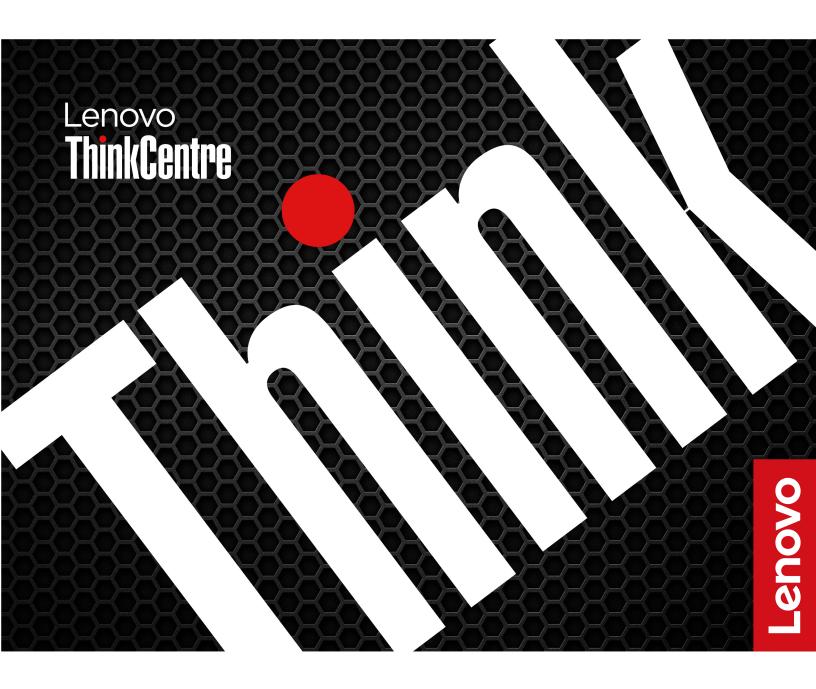
User Guide



ThinkCentre neo 50s Gen 6

About this documentation

This documentation applies to the Lenovo product models listed below.

Model name	Machine types (MT)
ThinkCentre neo 50s Gen 6	13DL, 13DM, 13DN, 13DQ

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
 - For computers purchased in mainland China: https://iknow.lenovo.com.cn/detail/dc_191404.html
 - For computers purchased outside mainland China: https://pcsupport.lenovo.com/docs/generic_notices
- Setup Guide (if provided with your computer)

Notes:

- Illustrations in this documentation may look slightly different from your product model.
- For more compliance information, refer to:
 - For computers purchased in mainland China
 Generic Safety and Compliance Notices at https://iknow.lenovo.com.cn/detail/dc_191404.html
 - For computers purchased outside mainland China
 Regulatory Notice at https://support.lenovo.com/docs/common_commercial_rn and Generic Safety and Compliance Notices at https://www.lenovo.com/compliance
- 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:
 - For computers purchased in mainland China: https://newsupport.lenovo.com.cn
 - For computers purchased outside mainland China: 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 As a result, some information in this documentation might become outdated.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.

First Edition (September 2025)

© Copyright Lenovo 2025.

LIMITED AND RESTRICTED RIGHTS NOTICE: If data or software is delivered pursuant to a General Services Administration "GSA" contract, use, reproduction, or disclosure is subject to restrictions set forth in Contract No. GS-35F-05925.

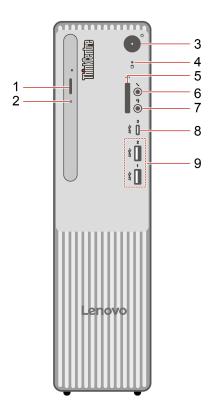
Contents

Chapter 1. Meet your computer 1	From the Windows Update
Front	Observant ODLI verila servant OO
Rear	Chapter 5. CRU replacement 23
Specifications 5	What is CRU
USB specifications 6	CRU list
The Vantage app 6	Vertical stand
	Computer cover
Chapter 2. Get started with your	PCle card
computer	Front bezel
Set up the computer	Dummy optical drive cover
Use a smart cable clip (for selected models) 8	Drive bay assembly
Shut down the computer 9	Hard disk drive
Change display settings 9	Optical drive and optical drive latch
Transfer data	Optical drive bezel
Connect to a Bluetooth device (for selected	Optical drive bracket
models)	Memory module
Conventional pair	M.2 solid-state drive and heat sink
Swift pair	Power supply assembly 41
ICE performance mode	CPU cooler
Smart power-on feature (for selected models) 11	
Set the power plan	Chapter 6. Help and support 44
Security	Find your serial number
Lock the computer	Diagnose and troubleshoot your computer 44
Use software security solutions	Troubleshoot and diagnose at Lenovo
Use BIOS security solutions	Support Web site
UEFI BIOS passwords	Hardware scan 45
'	Recover your Windows operating system 45
Chapter 3. Intelligent features 17	Call Lenovo
Lenovo Al Now (for selected models) 17	Before you contact Lenovo 46
Lenovo Al Turbo Engine (for selected models) 17	Self-help resources
	Purchase accessories or additional services 47
Chapter 4. UEFI BIOS 20	Accessibility features 47
Enter the UEFI BIOS menu 20	
Navigate the UEFI BIOS menu 20	Appendix A. Supplementary
Enable or disable the ErP LPS compliance mode 20	information48
Update the UEFI BIOS	
From the Vantage app 21	Appendix B. Notices and
From the Lenovo Support Web site 21	trademarks49

© Copyright Lenovo 2025 i

Chapter 1. Meet your computer

Front



Item	Description	Item	Description
1	Optical drive eject button*	2	Optical drive activity indicator*
3	Power button with power indicator	4	Storage drive activity indicator
5	SD-card slot*	6	Microphone connector
7	Headphone / microphone combo jack (3.5mm)	8	USB-C® connector (USB 5Gbps)
9	USB-A connectors (USB 5Gbps)		

^{*} for selected models

Note: For more information about the USB connector name update, see Appendix A "Supplementary information" on page 48.

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 in the connector name or below for each corresponding device.

© Copyright Lenovo 2025

USB device	Data rate (Gbit/s)
Thunderbolt 3	40
Thunderbolt 4	40

Power indicator

Show the system status of your computer.

- Blinking for three times: The computer is initially connected to power.
- On: The computer is starting up or working.
- 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.

Headphone / microphone combo jack (3.5mm)

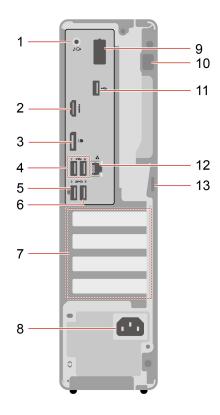
This connector is compatible with:

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

Related topics

- "USB specifications" on page 6
- "Optical drive and optical drive latch" on page 32
- "Transfer data" on page 9

Rear



Item	Description	Item	Description
1	Audio line-out connector	2	HDMI [™] out connector (up to 3840 x 2160 pixels / 60 Hz)
3	DisplayPort™ out connector (up to 4096 x 2304 pixels / 60 Hz)	4	USB-A connectors (Hi-Speed USB)
5	USB-A connector (USB 5Gbps) (with smart power-on)	6	USB-A connector (USB 5Gbps)
7	PCI-Express card area	8	Power cord connector
9	Smart cable clip*	10	Security-lock slot
11	USB-A connector (Hi-Speed USB)*	12	Ethernet connector (10/100/1000 Mbps)
13	Padlock loop		

^{*} for selected models

Note: The actual resolution of external displays may vary by the connected display device and the cable being used.

Related topics

- "" on page
- "Change display settings" on page 9

- "USB specifications" on page 6.
- "Smart power-on feature (for selected models)" on page 11

Specifications		
Specification	Description	
	Width: 92.5 mm (3.6 inches)	
Dimensions	Height: 339.5 mm (13.4 inches)	
	• Depth: 291.7 mm (11.5 inches)	
Weight (without packaging)	Maximum configuration as shipped: 4.62 kg (10.2 lb)	
Hardware configuration	Type Device Manager in the Windows search box and then press Enter. Type the administrator password or provide confirmation, if prompted.	
Power supply	200-watt automatic voltage-sensing power supply	
Tower Supply	 260-watt automatic voltage-sensing power supply 	
Electrical input	Input voltage: From 100 V ac to 240 V ac	
Liectrical iriput	Input frequency: 50/60 Hz	
Memory	Memory type: double data rate 5 (DDR5) small outline dual in-line memory module (SODIMM)	
	Maximum memory capacity: 64 GB	
	3.5-inch hard disk drive*	
	M.2 solid-state drive*	
	Optical drive*	
Storage device	To view the storage drive capacity of your computer, type Disk Management in the Windows search box and then press Enter.	
	Note: The storage drive capacity indicated by the system is less than the nominal capacity.	
	The integrated graphics card supports the following connectors:	
	 DisplayPort out connector 	
/ideo features	- HDMI out connector	
	 The optional discrete graphics card provides an enhanced video experience and extended capabilities. 	
	Card reader*	
	Memory slots	
Expansion	M.2 solid-state drive slot	
-Apailololi	Optical drive*	
	Storage drive bay	
	PCI Express slots	
	Bluetooth*	
Network features	Ethernet LAN	

• Ethernet LAN • Wireless LAN*

^{*} for selected models

Operating environment

Maximum altitude (without pressurization)

- Operating: From 0 m (0 ft) to 3048 m (10 000 ft)
- Storage: From 0 m (0 ft) to 12192 m (40 000 ft)

Temperature

- Operating: From 5°C (41°F) to 35°C (95°F)
- Storage: From -40°C (-40°F) to 60°C (140°F)

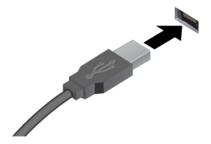
Relative humidity

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

USB specifications

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

Connector name Description



Connect USB-A compatible devices, such as a USB-A keyboard, USB-A mouse, USB-A storage device, or USB-A printer.

- SB-A connector (Hi-Speed USB)
- SSC USB-A connector (USB 5Gbps)



• SS USB-C connector (USB 5Gbps)

- Charge USB-C compatible devices with the output voltage and current of 5 V and 3 A.
- Connect to USB-C accessories to help expand your computer functionality.
 To purchase USB-C accessories, go to https://www.lenovo.com/accessories.

The Vantage app

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

To access the Vantage app, type **Vantage** in the Windows search box.

Notes:

- The available features vary depending on the computer model.
- The Vantage app 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. You can download the latest version of Vantage app from Microsoft Store.

The Vantage app enables you to:

- Know the device status easily and customize device settings.
- Download and install UEFI BIOS, firmware, and driver 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.

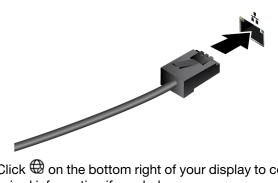
Chapter 2. Get started with your computer

Set up the computer

- Step 1. Connect wired or wireless external displays on the computer.
 - Wired external displays: Connect the cables of wired external displays to any of the following connectors on the computer:
 - DisplayPort out connector
 - HDMI out connector
 - Wireless external displays: Press Windows logo key + K and then select a wireless display to connect. Ensure that both your computer and the wireless display support Miracast[®].

To change display settings, refer to "Change display settings" on page 9.

- Step 2. Connect the following peripheral devices on the computer if any.
 - Keyboard and mouse
 - Air deflector
 - Vertical stand
- Step 3. Connect the power cord to the power cord connector on the computer and then connect it to a properly-grounded electrical outlet.
- Step 4. Press the power button to turn on the computer.
- Step 5. Follow the on-screen instructions to complete the setup procedures.
- Step 6. Connect to a wired or wireless network.
 - Wired network: Connect Ethernet cable of local network to the Ethernet connector on the computer.



• Wireless network: Click on the bottom right of your display to connect to an available network. Provide required information if needed.

Note: The wireless LAN module on your computer may support different standards. For some countries or regions, use of 802.11ax may be disabled according to local regulations.

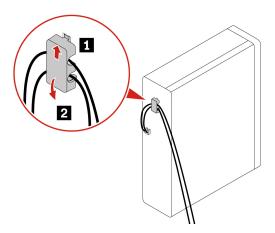
Use a smart cable clip (for selected models)

You can purchase a smart cable clip from Lenovo to lock devices (such as the keyboard and the mouse) to your computer.

Step 1. Insert the clip II into the cable-lock slot.

© Copyright Lenovo 2025

- Step 2. Pull the cables you want to lock through the dents in the smart cable clip.
- Step 3. Press the clip 2 into the cable-lock slot until it snaps into position.



Shut down the computer

To prevent damage to hardware/software systems or loss of data, do not arbitrarily use the power button to shut down the computer. Instead, shut down the computer as follows.

- 1. Click → → Shut down.
- 2. Wait for the computer to shut down and then turn off the monitor and other peripheral devices.

Note: After you turn off the system, please wait at least 20 seconds before turning the computer back on to avoid hardware faults.

Change display settings

- 1. Right-click a blank area on the desktop and select display settings.
- 2. Select the display that you want to configure and change display settings of your preference.

Transfer data

You can install a disc or media card to transfer data.

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

- 1. Type **Device Manager** in the Windows search box and then press Enter. Type the administrator password or provide confirmation, if prompted.
- 2. Select an optical drive, and then follow the on-screen instructions.

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:
 - Type AutoPlay in the Windows search box and then press Enter. Turn on Use AutoPlay for all media and devices.
 - 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 (for selected models)

Attention: Before removing the card:

- 1. Click the triangular icon in the Windows notification area to show hidden icons. Right-click the icon prompting you to safely remove hardware and eject media.
- 2. Select the corresponding item to eject the card from the Windows operating system.
- 3. Press the card and remove it from your computer. Store the card safely for future use.

Connect to a Bluetooth 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 successful connection, place the devices at most 10 meters (33 feet) from the computer.

Conventional pair

This topic helps you connect to a Bluetooth device by conventional pair.

- Step 1. Type **Bluetooth** in the Windows search box and then press Enter.
- Step 2. Turn on both the Bluetooth on your computer and the Bluetooth device. Make sure the device is discoverable.
- Step 3. Select the device when it is displayed on the **Add a device** list, and then follow the on-screen instructions.

Notes: If the Bluetooth connection failed, do the following:

- 1. Type **Device Manager** in the Windows search box and then press Enter.
- 2. Locate the Bluetooth adapter. Right-click and select **Update driver**.
- 3. Select Search automatically for drivers, and then follow the on-screen instructions.

Swift pair

This topic helps you connect to a Bluetooth device by swift pair.

If your Bluetooth device supports swift pair, do the following:

- Step 1. Enable swift pair notification on Bluetooth settings page.
- Step 2. Turn on both the Bluetooth on your computer and the Bluetooth device. Make sure the device is discoverable.
- Step 3. Click Connect when a swift pair notification appears on your computer.

Notes: If the Bluetooth connection failed, do the following:

- 1. Type **Device Manager** in the Windows search box and then press Enter.
- 2. Locate the Bluetooth adapter. Right-click and select **Update driver**.
- 3. Select **Search automatically for drivers**, and then follow the on-screen instructions.

ICE performance mode

The ICE performance mode helps you adjust the acoustic and thermal performance of your computer. Three options are available:

- Balance mode: The computer works at the balance mode with balanced noise and better performance.
- **Performance mode** (default setting): The computer works at the best performance with normal acoustic level.

Note: The term "best" only refers to the best effect among different settings of the product itself.

• Full Speed: All fans in the computer will run at full speed.

Change the ICE performance mode

To change the ICE performance mode:

- Step 1. Restart the computer. When the logo screen is displayed, press F1 or Fn+F1.
- Step 2. Select **Power → Intelligent Cooling** and press Enter.
- Step 3. Select Performance Mode and press Enter.
- Step 4. Set the performance mode as desired.
- Step 5. Press F10 or Fn+F10 to save the changes and exit.

Smart power-on feature (for selected models)

The smart power-on feature helps you start up or wake up the computer from the hibernation mode simply by pressing Alt+P.

Note: Ensure that the keyboard is connected to a USB connector supporting the smart power-on feature.

Enable or disable the smart power-on feature

To enable or disable the smart power-on feature:

- Step 1. Restart the computer. When the logo screen is displayed, press F1 or Fn+F1.
- Step 2. Select **Power → Smart Power On** and press Enter.

- Step 3. Enable or disable the feature as desired.
- Step 4. Press F10 or Fn+F10 to save the changes and exit.

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 set the power plan:

- 1. Type Power Options in the Windows search box and then press Enter.
- 2. Choose or customize a power plan of your preference.

Security

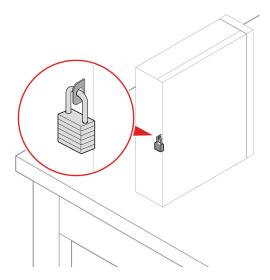
This computer offers a wealth of security measures to protect both the device and data safety.

Lock the computer

Note: 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.

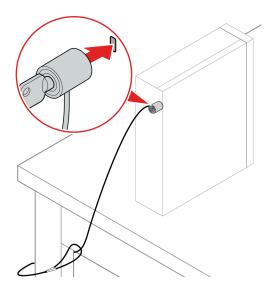
Padlock

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



Security lock

Lock your computer to a desk, table, or other fixtures through a security lock.



Use software security solutions

The following software solutions help secure your computer and information.

Windows Security

Windows Security is a software built-in to the operating system. It continually scans for malicious software, viruses, and other security threats. Besides, Windows updates are downloaded automatically to help keep your computer safe. Windows Security also enables you to manage tools including firewall, account protection, application and browser control, and so on.

Antivirus programs (for selected models)

Lenovo preinstalls a full-version antivirus software on selected models of computer. It helps defend the computer against viruses, safeguard your identity, and keep your personal information secured.

Note: For more information about how to use these software solutions, refer to their help systems respectively.

Use BIOS security solutions

This section provides BIOS solutions to secure your computer and information.

Wipe the storage drive data (for selected models)

It is recommended that you wipe the storage drive data before recycling the storage drive or the computer.

To wipe the storage drive data:

- 1. Restart the computer. When the logo screen is displayed, press F1 or Fn+F1.
- 2. Select Security → secure wipe → Enabled.
- 3. Press F10 or Fn+F10 to save the changes and exit.
- 4. Restart the computer. When the logo screen is displayed, press F12 or Fn+F12.
- 5. Select App Menu → secure wipe and press Enter.
- 6. Select the storage drive you will wipe and click **NEXT**.
- 7. Select the entire storage drive or partition to wipe as desired.
- 8. Select the method as desired and click **NEXT**.
- 9. Click **Yes** to confirm your option when the prompting window is displayed.

10. If you have set a hard disk password for the storage drive, enter the password. Otherwise, set a temporary password following the on-screen instructions. Then, click **NEXT**. The wiping process begins.

Note: Duration of the wiping process varies depending on the storage drive capacity.

- 11. Click **Reboot** when you are prompted to reset the system, and then one of the following will happen:
 - If the system storage drive data is wiped, you will be prompted that no operating system is found.
 - If the non-system storage drive data is wiped, the computer restarts automatically.

Cover presence switch

The cover presence switch prevents the computer from logging in to the operating system when the computer cover is not properly installed or closed.

To enable or disable the cover presence switch connector on the system board:

- 1. Restart the computer. When the logo screen is displayed, press F1 or Fn+F1.
- Select Security → Cover Tamper Detected and press Enter.
- 3. Select **Enabled** or **Disabled** and press Enter.
- 4. Press F10 or Fn+F10 to save the changes and exit.

If the cover presence switch is enabled and the computer cover is not correctly installed or closed, an error message will be displayed when you turn on the computer. To bypass the error message and log in to the operating system, properly install and close the computer cover, and then enable the cover presence switch connector again in the BIOS menu.

Intel BIOS guard

The Intel® BIOS Guard module cryptographically verifies all BIOS updates. This hardware-based security helps prevent software and malware attacks on the computers BIOS.

Smart USB Protection

The Smart USB Protection function is a security function that helps prevent data from being copied from the computer to USB storage devices connected to the computer. You can set the Smart USB Protection function to one of the following modes:

- Disabled (default setting): You can use the USB storage devices without limitation.
- Read Only: You cannot copy data from the computer to the USB storage devices. However, you can access data on the USB storage devices.
- No Access: You cannot access the USB storage devices from the computer.

To configure the Smart USB Protection function:

- 1. Restart the computer. When the logo screen is displayed, press F1 or Fn+F1.
- Select Security → Smart USB Protection and press Enter.
- 3. Select the desired setting and press Enter.
- 4. Press F10 or Fn+F10 to save the changes and exit.

Absolute Persistence (for computers with Windows operating system and purchased outside mainland China)

Absolute Persistence technology is embedded in BIOS. It detects changes that happen on the hardware, software, or the call-in location. It keeps you always knowing what condition the computer is in. To activate the technology, you have to purchase a subscription to Absolute.

UEFI BIOS passwords

You can set passwords in UEFI (Unified Extensible Firmware Interface) BIOS (Basic Input/Output System) to strengthen the security of your computer.

Password types

You can set a power-on password, supervisor password, system management password, or hard disk password in UEFI BIOS to prevent unauthorized access to your computer. However, you are not prompted to enter any UEFI BIOS password when your computer resumes from sleep mode.

Power-on password

When a power-on password is set, you are prompted to enter a valid password each time the computer is turned on.

Supervisor password

Setting a supervisor password deters unauthorized users from changing configuration settings. If you are responsible for maintaining the configuration settings of several computers, you might want to set a supervisor password.

When a supervisor password is set, you are prompted to enter a valid password each time you try to enter the BIOS menu.

If both the power-on password and supervisor password are set, you can enter either password. However, you must use your supervisor password to change any configuration settings.

Hard disk password (for selected models)

Setting a hard disk password prevents unauthorized access to the data on the storage drive. When a hard disk password is set, you are prompted to enter a valid password each time you try to access the storage drive.

Note: After you set a hard disk password, your data on the storage drive is protected even if the storage drive is removed from one computer and installed in another.

System management password (for selected models)

You can enable the system management password to have the same authority as the supervisor password to control security related features. To customize the authority of the system management password through the UEFI BIOS menu:

- 1. Restart the computer. When the logo screen is displayed, press F1 or Fn+F1.
- 2. Select Security → System Management Password Access Control.
- 3. Follow the on-screen instructions.

If you have set both the supervisor password and the system management password, the supervisor password overrides the system management password.

Set, change, and remove a password

Before you start, print these instructions.

- 1. Restart the computer. When the logo screen is displayed, press F1 or Fn+F1.
- 2. Select Security.
- 3. Depending on the password type, select Set Supervisor Password, Set Power-On Password, Set System Management Password, or Hard Disk Password and press Enter.
- 4. Follow the on-screen instructions to set, change, or remove a password.
- 5. Press F10 or Fn+F10 to save the changes and exit.

You should record your passwords and store them in a safe place. If you forget the passwords, contact a Lenovo-authorized service provider.

storage drive.	assword of recover data from the

Chapter 3. Intelligent features

Lenovo PCs are continuously developing convenient and intelligent features to enhance users' computing experiences. This section explores the intelligent features and software that may be available on your computer.

Lenovo Al Now (for selected models)

Lenovo Al Now is a personal and private Al assistant to help with inspiration, writing, summarizing, and quick settings for your computer. Depending on the country or region, either of them might be available.

Access the apps

- Use the Lenovo Al Now icon if present on the taskbar.
- Or type the app name in the Windows search box and press Enter.

Explore key features

- Import files to create your personal knowledge base and start searching, Q&A, summarization, and generation based on it.
- Set up your computer or find service information. For example, you can ask it to help turn on the Eye Care
 mode or find the nearest service center.

Notes:

- For more information about Lenovo Al Now, see the User Guide in the apps' Help Center.
- Software features may vary by computer model and be subject to change. Explore the apps based on your actual user interface.

Lenovo Al Turbo Engine (for selected models)

Lenovo Al Turbo Engine is a smart audio and video enhancement software. Powered by plentiful sensing and computing adaption technologies, it can optimize your experience in video and audio capture and playback.

Access the app

- Use the Lenovo Al Turbo Engine icon if present on the taskbar.
- Or type the app name in the Windows search box and press Enter.

Explore key features

- Video enhancement
 - **Auto framing mode** (for a single person): Automatically track and keep your face centered in the video.



17 © Copyright Lenovo 2025

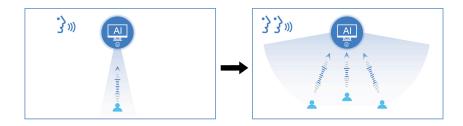
- Auto framing mode (for multiple persons): Automatically crop the video to capture all persons' faces.



 Single-person tracking mode: You can manually select this mode to track only one person's face even if others are present.

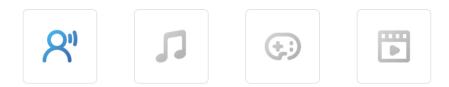
• Audio enhancement

 Microphone capture effect auto adaption: The microphone capture scope can change based on the number of persons captured by the camera.

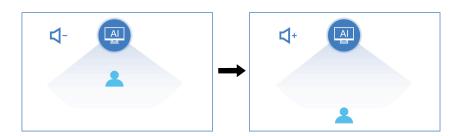


Note: You can also manually switch between personal, shared, or music modes based on your needs.

 Speaker playback effect auto adaption: The speaker playback effect can change depending on the audio type.



 Speaker playback volume auto adaption (for models with a radar card): System volume can change according to the user's distance from the speaker.



Notes:

- The available features vary depending on computer models.
- This app might not be available in your country or region.
- This app makes periodic updates of the features. Explore this app on your actual user interface.

Chapter 4. UEFI BIOS

Enter the UEFI BIOS menu

Turn on or restart the computer. When the logo screen is displayed, press F1 or Fn+F1 to enter the UEFI BIOS menu.

Note: If you have set UEFI BIOS passwords, enter the correct passwords when prompted. You also can select **No** or press Esc to skip the password prompt and enter the UEFI BIOS menu. However, you cannot change the system configurations that are protected by passwords.

Navigate the UEFI BIOS menu

Follow the on-screen instructions to navigate in the UEFI BIOS menu.

The table below introduces the available settings of the UEFI BIOS menu. You can follow the on-screen instruction to navigate in the UEFI BIOS menu.

Note: The UEFI BIOS menu might vary depending on system configurations.

Menu	Introduction	
Main	This category provides the general product-related and firmware information including system summary, machine type, product serial number, UUID number, etc.	
Devices	This category introduces how to configure various devices such as USB ports and audio controllers.	
Advanced	This category provides advanced information about the computer such as the CPU features.	
Power	This category introduces power and thermal management solutions.	
Security	This category introduces various passwords, locks, and software to protect your computer.	
Startup	This category introduces how to set the boot priority order.	
Exit	This category introduces how to exit as you prefer.	

To explore the detailed settings:

- For computers purchased in mainland China
 You can contact Lenovo Customer Support Center as shown at https://newsupport.lenovo.com.cn/ contacts.html.
- For computers purchased outside mainland China

You can go to Lenovo BIOS Simulator Center https://download.lenovo.com/bsco/index.html to explore the detailed settings by your product name.

Note: The Lenovo BIOS Simulator Center makes periodic updates of the settings. The UEFI BIOS simulator interface and description of settings might be different from that on your actual user interface.

Enable or disable the ErP LPS compliance mode

Lenovo computers meet the eco-design requirements of the ErP Lot 3 regulation. Follow the instruction to enable or disable the ErP LPS compliance mode.

© Copyright Lenovo 2025

For more information about the eco-design requirements, 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. To enable or disable the ErP LPS compliance mode:

- Restart the computer. When the logo screen is displayed, press F1 or Fn+F1.
- Select Power → Enhanced Power Saving Mode and press Enter. Step 2.
- Step 3. Enable or disable the feature as desired.

Note: Please note that when the Enhanced Power Saving Mode is disabled, the power consumption might be increased when the computer is off.

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.

Update the UEFI BIOS

When you install a new program, device driver, or hardware component, you might need to update the UEFI BIOS.

Download and install the latest UEFI BIOS update package by one of the following methods:

From the Vantage app

Follow the instructions to update the UEFI BIOS from the Vantage app.

- Step 1. Open the Vantage app, and then click **System Update**.
- Step 2. If the latest UEFI BIOS update package is available, follow the on-screen instructions to download and install the package.

From the Lenovo Support Web site

Follow the instructions to update the UEFI BIOS from the Lenovo Support Web site.

For computers purchased in mainland China

- 1. Go to https://newsupport.lenovo.com.cn.
- 2. Click **Download drivers and software**, and select or search product.
- 3. Follow the on-screen instructions to download and install the latest UEFI BIOS update package.

For computers purchased outside mainland China

1. Go to https://pcsupport.lenovo.com and select the entry for your computer.

- 2. Click **Drivers & Software** → **Manual Update** → **BIOS/UEFI**.
- 3. Follow the on-screen instructions to download and install the latest UEFI BIOS update package.

From the Windows Update

Follow the instructions to update the UEFI BIOS from the Windows Update.

- Step 1. Type **Settings** in the Windows search box and press Enter.
- Step 2. Click Windows Update → Check for Updates.
- If a BIOS update package appears in your update list, click **Download or Install** to initiate the Step 3. update.

Chapter 5. CRU replacement

What is CRU

Important: For users in mainland China, the information provided in this chapter is for reference by professional maintenance service providers or technicians authorized by Lenovo only. Users shall not perform maintenance on their own. Any faults or damage due to improper operation, modification, or failure to use parts provided by Lenovo are not covered by the warranty for this product. For product warranty information, refer to the warranty document provided with the product or go to the official Lenovo website at https://newsupport.lenovo.com.cn.

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

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

If you intend 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

CRU list

The following is the CRU list of your computer.

Self-service CRUs

- Computer cover
- Dongles*
 - Dongle HDMI to VGA
 - Dongle HDMI to HDMI
 - Dongle DisplayPort to dual DisplayPort
 - Dongle DisplayPort to HDMI
 - Dongle DisplayPort to DVI
 - Dongle DisplayPort to VGA
 - Smart Cable
- Drive bay assembly
- Dummy optical drive cover*
- Front bezel
- Hard disk drive*
- Keyboard*

- M.2 solid-state drive*
- M.2 solid-state drive heat sink*
- Memory module
- Mouse*
- Optical drive*
- Optical drive bezel*
- Optical drive bracket*
- Optical drive latch*
- Pad lock*
- Power Cord
- Vertical stand*

Optional-service CRUs

- · CPU cooler
- PCle card*
- Power supply assembly

Vertical stand

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.



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

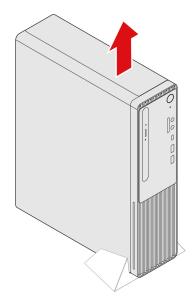
For access, do the following:

- 1. Remove any media from the drives and turn off all connected devices and the computer.
- 2. Disconnect all power cords from electrical outlets and disconnect all cables from the computer.

Removal steps

Pick up the computer and remove the vertical stand.

^{*} for selected models



Computer cover

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.



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

For access, do the following:

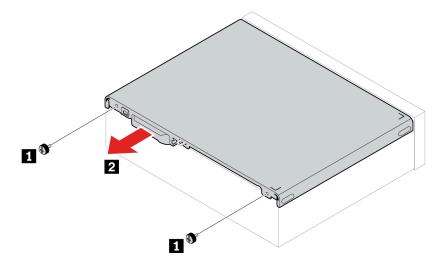
- 1. Remove any media from the drives and turn off all connected devices and the computer.
- 2. Disconnect all power cords from electrical outlets and disconnect all cables from the computer.
- 3. Unlock any locking device that secures the computer cover.
- 4. Remove the vertical stand. See "Vertical stand" on page 24.
- 5. Lay down the computer to place the computer cover facing up.

Removal steps

1. Remove the two screws which secure the computer cover to the chassis, one screw at each edge of the chassis. Find screw specification like torque in the following screw table.

Screw (quantity)	Torque
Screw, #6-32 x L8, Hexhead (2)	3± 0.5 lb/in

2. Pull the computer cover to remove it.



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

PCIe card

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.



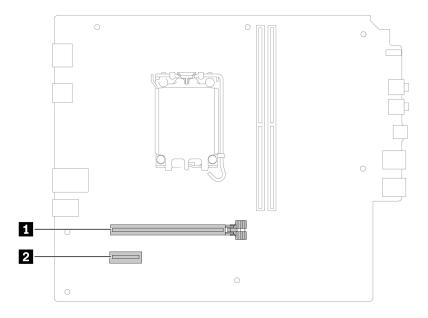
Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

For access, do the followings:

- 1. Remove the computer cover. See "Computer cover" on page 25.
- 2. Disconnect the PCI-Express cables from the system board if any.

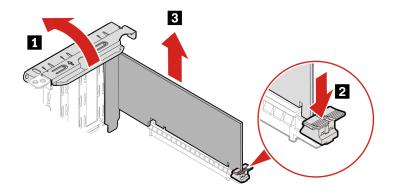
Installation rule

Install the graphics card to the PCle slot
shown in the following illustration.



Removal steps

- 1. Pivot the PCle latch outwards.
- 2. Press the retaining latch at the end of the PCle slot to release the PCle card.
- 3. Gently pull the PCIe card out of the PCIe slot.



Front bezel

Prerequisite

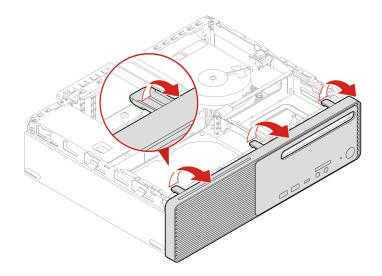
Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

For access, remove the following parts in order, if any:

- "Computer cover" on page 25
- "Optical drive and optical drive latch" on page 32

Removal steps

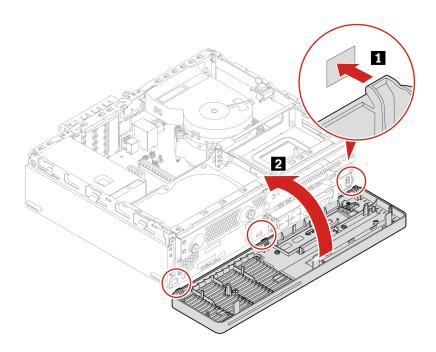
Release three elastic hooks from the top of the front bezel.



Installation steps

There are three swivel hooks at the bottom of the front bezel.

- 1. Insert the three swivel hooks to each hook slot.
- 2. Pivot the front bezel inwards to install it to the chassis.



Dummy optical drive cover

Prerequisite

Before you start, read *Generic Safety and Compliance Notices*, and print the following instructions.



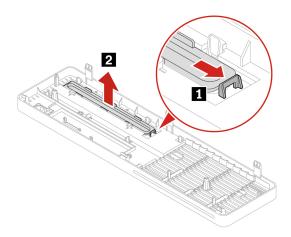
Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

Remove these parts in order:

- "Computer cover" on page 25
- "Front bezel" on page 27

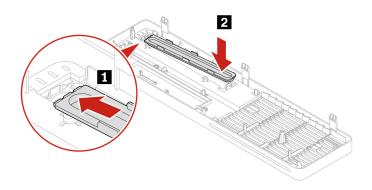
Removal steps

- 1. Release the dummy optical drive cover from front bezel by pushing it toward the center of the front bezel
- 2. Remove it from the front bezel.



Installation steps

- 1. Insert the uneven side of the dummy optical drive cover to the inside slot which is close to the edge of the front bezel.
- 2. Press the other side of the dummy optical drive cover down.



Drive bay assembly

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.



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

For access, remove these parts in order:

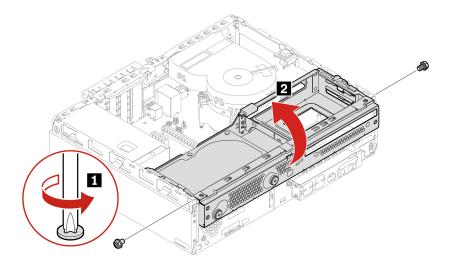
- "Computer cover" on page 25
- "Optical drive and optical drive latch" on page 32
- "Front bezel" on page 27

Removal steps

1. Remove the two screws which secure the drive bay assembly to the chassis, one screw at each corner of the chassis. Find screw specification like torque in the following screw table.

Screw (quantity)	Torque
Screw, #6-32 x L8, Hexhead (2)	5 ± 0.5 lb/in

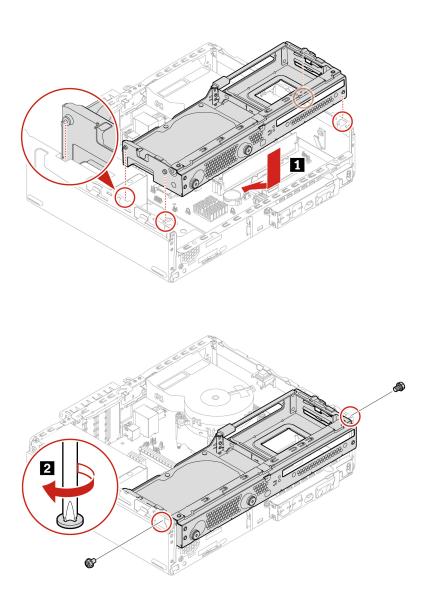
2. Pivot the drive bay assembly upward, then remove it.



Installation steps

There are four holes on the chassis to locate the drive bay assembly.

- 1. Insert the drive bay assembly into the four holes. Then pivot the drive bay assembly downward to install it to the chassis.
- 2. Secure the two screws.



Hard disk drive

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

Attention: The internal storage drive is sensitive. Inappropriate handling might cause damage and permanent loss of data. When handling the internal storage drive, observe the following guidelines:

- Replace the internal storage drive only for repair. The internal storage drive is not designed for frequent changes or replacement.
- Before replacing the internal storage drive, make a backup copy of all the data that you want to keep.
- Do not touch the contact edge of the internal storage drive. Otherwise, the internal storage drive might get damaged.
- Do not apply pressure to the internal storage drive.

• Do not make the internal storage drive subject to physical shocks or vibration. Put the internal storage drive on a soft material, such as cloth, to absorb physical shocks.

For access, do the following:

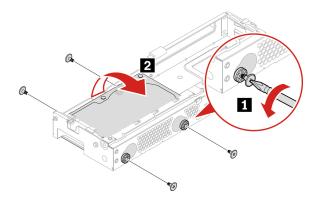
- 1. Remove these parts in order:
 - "Computer cover" on page 25
 - "Optical drive and optical drive latch" on page 32
 - "Front bezel" on page 27
 - "Drive bay assembly" on page 30
- 2. Disconnect the signal cable and the power cable from the hard disk drive.

Removal steps

1. Remove the four screws which secure the hard disk drive to the drive bay assembly, two screws at each side of the hard disk drive. Find screw specification like torque in the following screw table.

Screw (quantity)	Torque
Screw, #6-32 (4)	5 ± 0.5 lb/in

2. Remove the hard disk drive.



Optical drive and optical drive latch

Prerequisite

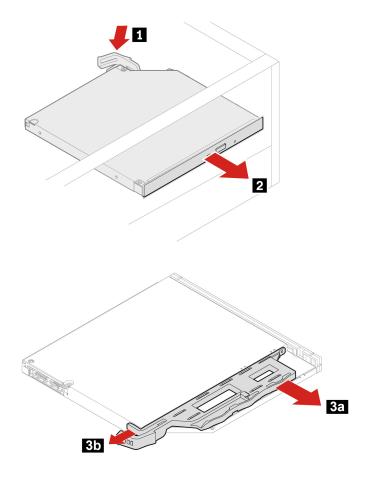
Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

For access, do the following:

- 1. Remove the "Computer cover" on page 25.
- 2. Disconnect the signal and power cable from the optical drive.

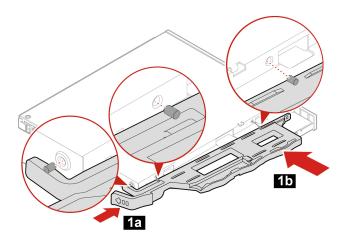
Removal steps

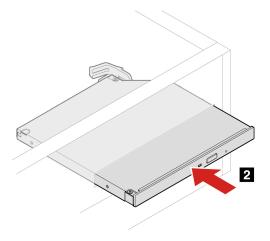
- 1. Push the optical drive latch toward the front panel of the computer.
- 2. Remove the optical drive.
- 3. Pull the optical drive latch out of the optical drive.



Installation steps

- 1. There are three holes on the optical drive to locate the optical drive latch. Install the optical drive latch to the optical drive and make sure that it is inserted into these holes.
- 2. Insert the optical drive to the chassis.





Optical drive bezel

Prerequisite

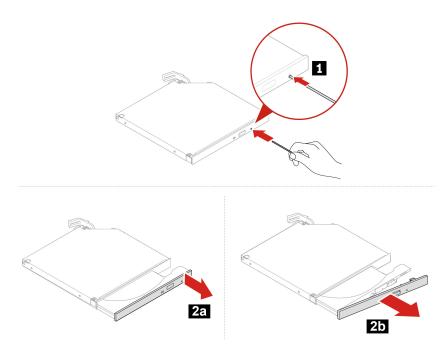
Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

For access, do the following:

- 1. Remove the "Computer cover" on page 25.
- 2. Remove the "Optical drive and optical drive latch" on page 32.
- 3. Disconnect the signal and power cable from the optical drive.

Removal steps

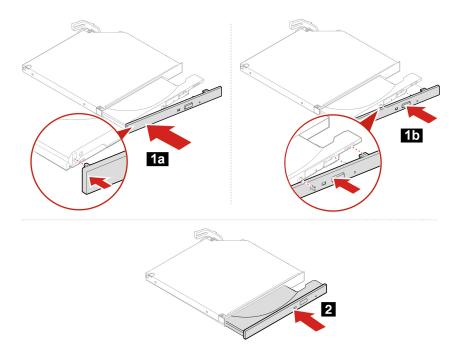
- 1. Use an ejector like paper clip to eject the optical drive tray.
- 2. Remove the optical drive bezel from the optical drive.



Installation steps

There are four holes on the optical drive tray to locate the optical drive bezel.

- 1. Install the optical drive bezel to the optical drive tray, and make sure that it is inserted into these holes.
- 2. Install the optical drive tray back to the optical drive.



Optical drive bracket

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

For access, remove these parts in order:

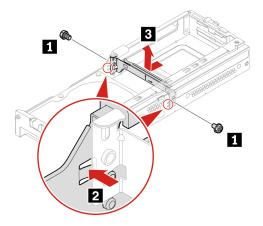
- "Computer cover" on page 25
- "Optical drive and optical drive latch" on page 32
- "Front bezel" on page 27
- "Drive bay assembly" on page 30

Removal steps

1. Remove the two screws which secure the optical drive bracket to the drive bay assembly, one screw at each side of the optical drive bracket. Find screw specification like torque in the following screw table.

Screw (quantity)	Torque
Screw, #6-32 x L8, Hexhead (2)	5 ± 0.5 lb/in

2. Remove the optical drive bracket.

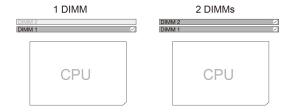


Memory module

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

Ensure that you follow the installation rules shown in the following illustration.

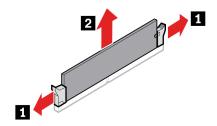


For access, remove these parts in order:

- "Computer cover" on page 25
- "Optical drive and optical drive latch" on page 32
- "Front bezel" on page 27
- "Drive bay assembly" on page 30

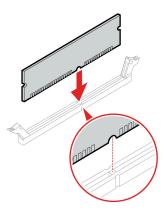
Removal steps

- 1. Open the two retaining clips.
- 2. Gently pull the memory module out of the memory slot.



Installation steps

Align the memory module to the slot and press down on both ends until the latches are fully engaged with a click.



M.2 solid-state drive and heat sink

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.



The heat sink might be very hot. Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

Attention:

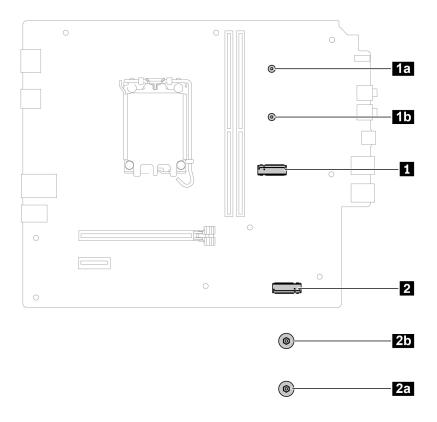
- The internal storage drive is sensitive. Inappropriate handling might cause damage and permanent loss of data. When handling the internal storage drive, observe the following guidelines:
 - Replace the internal storage drive only for repair. The internal storage drive is not designed for frequent changes or replacement.
 - Before replacing the internal storage drive, make a backup copy of all the data that you want to keep.
 - Do not touch the contact edge of the internal storage drive. Otherwise, the internal storage drive might get damaged.
 - Do not apply pressure to the internal storage drive.
 - Do not make the internal storage drive subject to physical shocks or vibration. Put the internal storage drive on a soft material, such as cloth, to absorb physical shocks.

For access, remove these parts in order:

- "Computer cover" on page 25
- "Optical drive and optical drive latch" on page 32
- "Front bezel" on page 27
- "Drive bay assembly" on page 30

M.2 solid-state drive slots

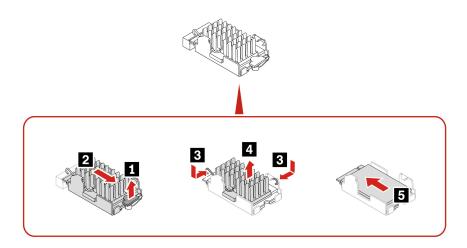
Your computer has two M.2 solid-state drive slots on the system board. You can install the M.2 solid-state drive to the slot **1** and secure the M.2 solid-state drive to the location **1** or **1** on the system board. You also can install the M.2 solid-state drive to the slot **2** and secure the M.2 solid-state drive to the location **2** or **2** on the chassis.



Removal steps for M.2 solid-state drive secured to the system board

For type-1 M.2 solid-state drive:

- 1. Pull out the plug that secures the heat sink module to the system board.
- 2. Remove the heat sink module.
- 3. Press down on the two latches on top of the heat sink module to release the heat sink cover.
- 4. Remove the heat sink cover.
- 5. Remove the M.2 solid-state drive and thermal pad (if any).

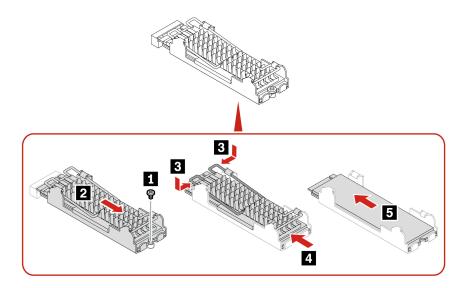


For type-2 M.2 solid-state drive:

1. Remove the screw that secures the heat sink module to the system board.

Screw (quantity)	Torque
M2 x L4, silver coated (1)	1.5 ± 0.5 lb/in

- 2. Remove the heat sink module.
- 3. Pinch the two latches on top of the heat sink module to release the heat sink cover.
- 4. Remove the heat sink cover.
- 5. Remove the M.2 solid-state drive and thermal pad (if any).



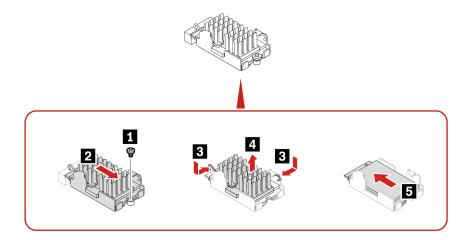
Removal steps for M.2 solid-state drive secured to the chassis

For type-1 M.2 solid-state drive:

1. Remove the screw that secures the heat sink module to the chassis.

Screw (quantity)	Torque
M2 x L4, silver coated (1)	1.5 ± 0.5 lb/in

- 2. Remove the heat sink module.
- 3. Press down on the two latches on top of the heat sink module to release the heat sink cover.
- 4. Remove the heat sink cover.
- 5. Remove the M.2 solid-state drive and thermal pad (if any).

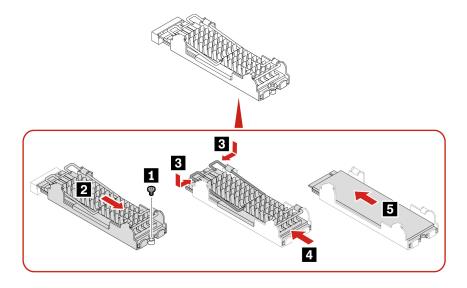


For type-2 M.2 solid-state drive:

1. Remove the screw that secures the heat sink module to the chassis.

Screw (quantity)	Torque
M2 x L4, silver coated (1)	1.5 ± 0.5 lb/in

- 2. Remove the heat sink module.
- 3. Pinch the two latches on top of the heat sink module to release the heat sink cover.
- 4. Remove the heat sink cover.
- 5. Remove the M.2 solid-state drive and thermal pad (if any).



Note: Remove the film that covers the thermal pad (if any) when installing the M.2 solid-state drive, heat sink, and thermal pad.

Power supply assembly

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

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



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

For access, do the following:

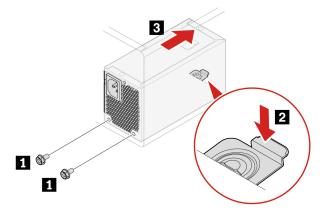
- 1. Remove these parts in order:
 - "Computer cover" on page 25
 - "Optical drive and optical drive latch" on page 32
 - "Front bezel" on page 27
 - "Drive bay assembly" on page 30
- 2. Disconnect the power supply assembly cables from the system board.

Removal steps

1. Remove the three screws which secure the power supply assembly to the chassis. Find screw specification like torque in the following screw table.

Screw (quantity)	Torque
Screw, #6-32 x L8, Hexhead (2)	5 ± 0.5 lb/in

- 2. Press the retaining clip from inside of the chassis.
- 3. Push the power supply assembly inwards to remove it.



CPU cooler

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

CAUTION:



The CPU cooler might be very hot. Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

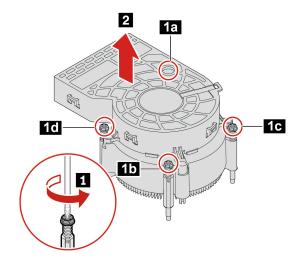
For access, do the following:

- 1. Remove these parts in order:
 - "Computer cover" on page 25
 - "Optical drive and optical drive latch" on page 32
 - "Front bezel" on page 27
 - "Drive bay assembly" on page 30
- 2. Disconnect the CPU cooler cable from the system board.

Removal steps

Notes:

- Ensure that the CPU cooler is horizontal when loosening or fastening the screws.
- Do not touch the thermal grease while handling the heat sink.
- 1. Partially loosen the four screws in the specified sequence as indicated in the following illustration. Then, fully loosen all screws in the same order.
- 2. Remove the CPU cooler.



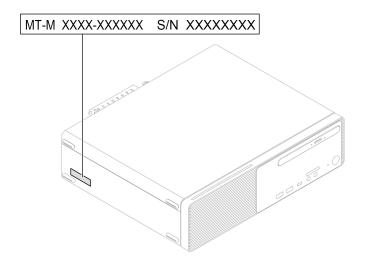
Chapter 6. Help and support

Find your serial number

This topic helps you find computer serial number.

You can find your serial number via:

- Dashboard or Device in the Vantage app
- Bottom of your computer (shown as below illustration)



Diagnose and troubleshoot your computer

This section provides introduction to a set of diagnostics and troubleshooting tools at Lenovo Support Web site and the Vantage app. They can help you diagnose common software and hardware issues.

The following table lists these diagnostics tools and the recommended conditions for each tool.

Diagnostics tool	Recommended scenario
Troubleshoot and diagnose at Lenovo Support Web site	You want to have an online troubleshooting or scan of hardware and drivers on your computer.
Hardware scan	Your computer is installed with the Vantage app. You want to perform basic examinations of the hardware components.

Troubleshoot and diagnose at Lenovo Support Web site

Lenovo provides two different diagnosing solutions to help you identify and resolve problems on your computer.

For computers purchased in mainland China

1. Go to https://newsupport.lenovo.com.cn/.

© Copyright Lenovo 2025

2. Enter the troubleshooting section and find the question you are encountering.

For computers purchased outside mainland China

- 1. Go to https://www.pcsupport.lenovo.com/ and enter your product name in the search box.
- 2. Click Troubleshoot & Diagnose and select the option that fits your need.

Notes:

- Before launching any automatic diagnosing process, a pop-up window will be prompted to install Lenovo Service Bridge. Lenovo Service Bridge helps to connect your computer with Lenovo diagnosing tools.
- Lenovo Support Web site makes periodic updates of the sections to keep improving your experience with your computer. The Web site interface and descriptions of sections might be different from that on your actual interface.
- If you are unaware of what problem your computer goes with, it is recommended that you select **Easy** and follow on-screen instructions to get your firmware updated and obtain the hardware status.
- If you have identified the problem on your computer, you can select **Custom** and follow on-screen instructions to resolve the problem.

If solutions can not resolve problems on your computer, you can follow on-screen instructions to submit an e-ticket or contact Lenovo for professional assistance.

Hardware scan

Hardware scan is an effective hardware testing tool to help you identify existing hardware issues.

To run the Hardware scan:

- Step 1. Type Vantage in the Windows search box and then press Enter.
- Step 2. Click Hardware scan or Support → Hardware scan.
- Step 3. Select QUICK SCAN or CUSTOMIZE and then follow the on-screen instructions to run the hardware scan.

Notes:

- The Quick Scan tool contains a pre-selected suite of tests that performs basic examinations of the hardware components found in the system. The Customize tool enables you to select one or several hardware components to perform the examinations.
- Before selecting QUICK SCAN, click Refresh Modules to ensure that the list of hardware components is the components currently available for the computer.
- If any hardware failure is detected, the result varies depending on the warranty status and varies by country or region. Follow the on-screen instructions to resolve the issue.

Recover your Windows operating system

When you encounter some unexpected issues with your operating system, you can choose to recover your operating system by yourself or call Lenovo Customer Support Center.

Note: Microsoft constantly makes updates to the Windows operating system. Before installing a particular Windows version, check the compatibility list for the Windows version. For details, go to https:// support.lenovo.com/us/en/solutions/ht512575.

For computers purchased in mainland China

Go to https://iknow.lenovo.com.cn/detail/199198_1.html.

For computers purchased outside mainland China

To recover your operating system to	See.
Factory defaults	Refer to the instructions in https://support.lenovo.com/ HowToCreateLenovoRecovery
A previous system point	Refer to the instructions in Popular Topics: https://support.lenovo.com/solutions/ht118590

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 needed information 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.

Self-help resources

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

Resources	How to access?
Lenovo Support Web Site	 For computers purchased in mainland China https://www.lenovo.com.cn For computers purchased outside mainland China https://pcsupport.lenovo.com
Tips	 For computers purchased in mainland China https://iknow.lenovo.com.cn For computers purchased outside mainland China https://www.lenovo.com/tips
Lenovo Community	 For computers purchased in mainland China https://iknow.lenovo.com.cn For computers purchased outside mainland China https://forums.lenovo.com

Resources	How to access?
Accessibility information (for computers purchased outside China)	https://www.lenovo.com/accessibility
Windows help information	Open the Start menu and click Get Help or Tips.Use Windows Search.
	 Microsoft support Web site: https://support.microsoft.com

Purchase accessories or additional services

This topic provides instructions on how to purchase accessories or additional services.

Accessories

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

To shop at Lenovo, go to:

- · For computers purchased in mainland China https://www.lenovo.com.cn
- For computers purchased outside mainland China https://www.lenovo.com/accessories

Additional services

During and after the warranty period, you can purchase additional services from Lenovo at:

- · For computers purchased in mainland China https://newsupport.lenovo.com.cn
- For computers purchased outside mainland China https://pcsupport.lenovo.com/warrantyupgrade

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

Accessibility features

Lenovo is committed to making information technology accessible to everyone, including individuals with hearing, vision, mobility, cognitive, or speech disabilities. To get the most up-to-date and detailed accessibility features information for the product, go to https://support.lenovo.com/docs/product_ accessibility_features.

Appendix A. Supplementary information

This section contains the notice for USB connector name update. The USB Implementers Forum published a revision of the guideline for USB connector names in September, 2022. Lenovo follows the revised guideline and updates USB connector names accordingly. You can refer to the table below for naming update details.

Notice for USB connector name update

Current name	Previous name
USB-A connector (Hi-Speed USB)	USB-A 2.0 connector
USB-A connector (USB 5Gbps)	USB-A 3.2 Gen 1 connector
USB-A connector (USB 10Gbps)	USB-A 3.2 Gen 2 connector
USB-A connector (USB 5Gbps, Always On USB)	Always on USB-A 3.2 Gen 1 connector
USB-A connector (USB 10Gbps, Always On USB)	Always on USB-A 3.2 Gen 2 connector
USB-C connector (USB 5Gbps)	USB-C (3.2 Gen 1) connector
USB-C connector (USB 10Gbps)	USB-C (3.2 Gen 2) connector
USB-C connector (USB 20Gbps)	USB 3.2 Gen 2x2
USB-C connector (USB4 20Gbps)	USB 4 Gen 2x2
USB-C connector (USB4 40Gbps)	USB-C (USB 4) connector
USB-C connector (Thunderbolt 3)	USB-C (Thunderbolt 3) connector
USB-C connector (Thunderbolt 4)	USB-C (Thunderbolt 4) connector

효율관리기자재 소비전력량

효율관리기자재 표시사항	소비효율 정보
컴퓨터 유형	D
연간소비 전력량 (kWh)	88.3
슬립모드 소비전력 (W)	1.31
오프모드 소비전력 (W)	0.55

© Copyright Lenovo 2025

Appendix B. Notices and trademarks

Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.

Lenovo may have patents or pending patent programs covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

Lenovo (United States), Inc. 8001 Development Drive Morrisville, NC 27560 U.S.A.

Attention: Lenovo Director of Licensing

LENOVO PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

Changes are made periodically to the information herein; these changes will be incorporated in new editions of the publication. To provide better service, Lenovo reserves the right to improve and/or modify the products and software programs described in the manuals included with your computer, and the content of the manual, at any time without additional notice.

The software interface and function and hardware configuration described in the manuals included with your computer might not match exactly the actual configuration of the computer that you purchase. For the configuration of the product, refer to the related contract (if any) or product packing list, or consult the distributor for the product sales. Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change Lenovo product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Lenovo or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary.

Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk.

Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

This document is copyrighted by Lenovo and is not covered by any open source license, including any Linux® agreement(s) which may accompany software included with this product. Lenovo may update this document at any time without notice.

For the latest information or any questions or comments, contact or visit the Lenovo Web site:

- For computers purchased in mainland China https://newsupport.lenovo.com.cn
- For computers purchased outside mainland China https://pcsupport.lenovo.com

Trademarks

Lenovo, Lenovo logo, ThinkCentre, and ThinkCentre logo are trademarks of Lenovo. Thunderbolt is a trademark of Intel Corporation or its subsidiaries in the U.S. and/or other countries. Microsoft and Windows are trademarks of the Microsoft group of companies. DisplayPort is a trademark of the Video Electronics Standards Association. The terms HDMI and HDMI High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. USB-C is a registered trademark of USB Implementers Forum. Wi-Fi is a registered trademark of Wi-Fi Alliance. All other trademarks are the property of their respective owners.

Lenovo