



Lenovo IdeaPad U310/U410

User Guide v1.0



Read the safety notices and important tips in the included manuals before using your computer.

ideapad

Notes

- Before using the product, be sure to read *Lenovo Safety and General Information Guide* first.
- Some instructions in this guide may assume that you are using Windows® 7. If you are using other Windows operating system, some operations may be slightly different. If you are using other operating systems, some operations may not apply to you.
- The features described in this guide are common to most models. Some features may not be available on your computer and/or your computer may include features that are not described in this user guide.
- The illustrations in this manual may differ from the actual product. Please refer to the actual product.

Regulatory Notice

- To refer to it, go to <http://consumersupport.lenovo.com/> and click **User guides and manuals**.

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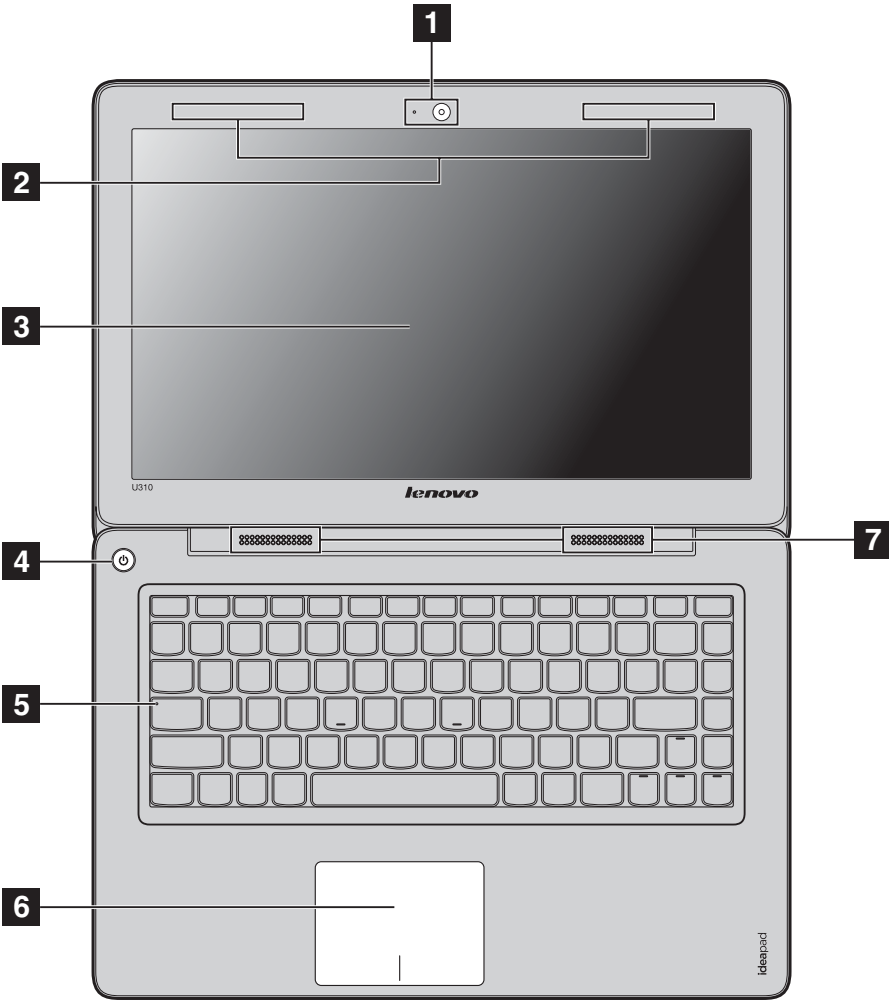
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Chapter 1. Getting to know your computer

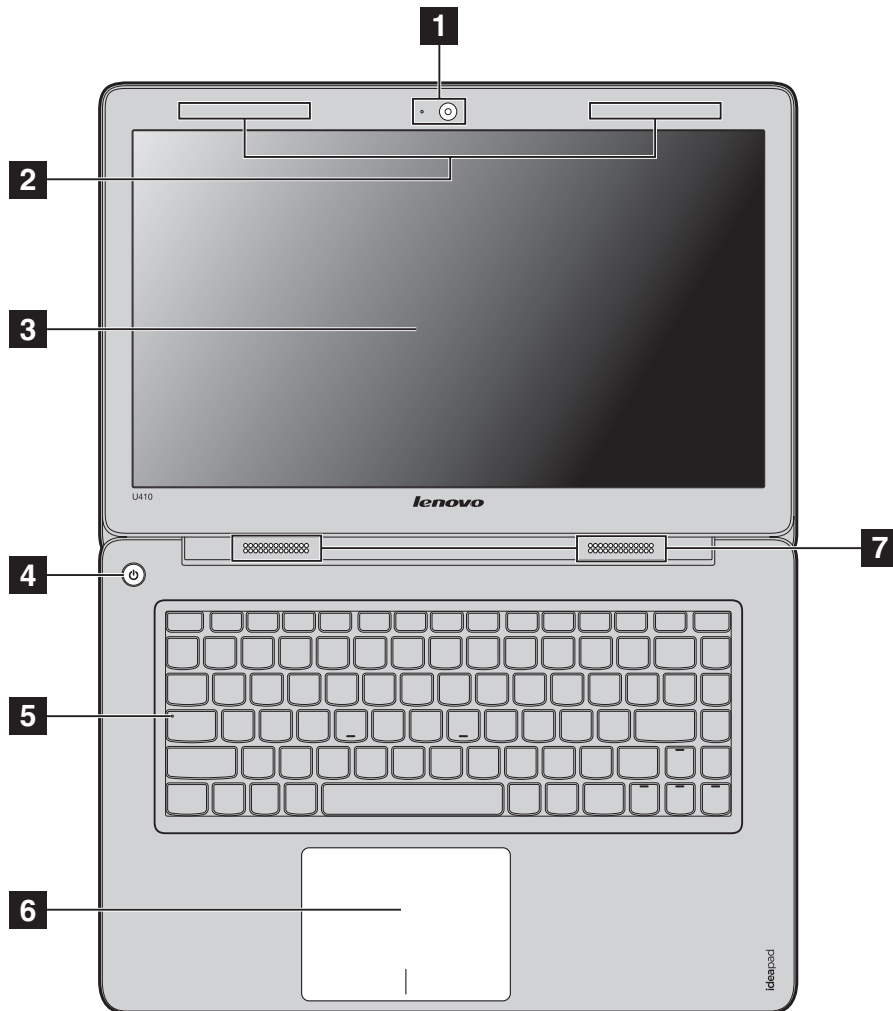
■ ■ Top view

■ U310



Chapter 1. Getting to know your computer

■ U410



Note: The illustrations in this manual may differ from the actual product. Please refer to the actual product.

ⓘ **Attention:**

- Do NOT open the display panel beyond 130 degrees. When closing the display panel, be careful NOT to leave pens or any other objects in between the display panel and the keyboard. Otherwise, the display panel may be damaged.

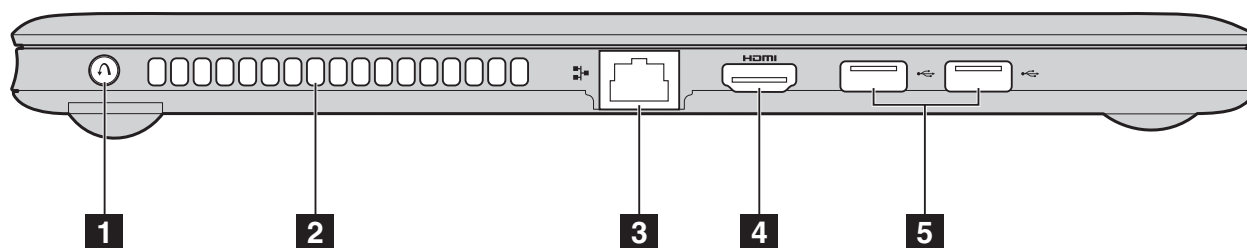
Chapter 1. Getting to know your computer

- | | | |
|--|---------------------------------|--|
| 1 | Integrated camera | Use the camera for video communication. |
| 2 | Wireless module antennas | The built-in antennas ensure optimal reception of wireless radio. |
| 3 | Computer display | The LCD display with LED backlight provides brilliant visual output. |
| 4 | Power button | Press this button to turn on the computer. |
| 5 | System status indicators | For details, see “System status indicators” on page 18. |
| 6 | Touchpad | The touchpad functions as a conventional mouse. |
| Note: For details, see “Using the touchpad” on page 11. | | |
| 7 | Speakers | The stereo speakers provide rich and powerful sound. |

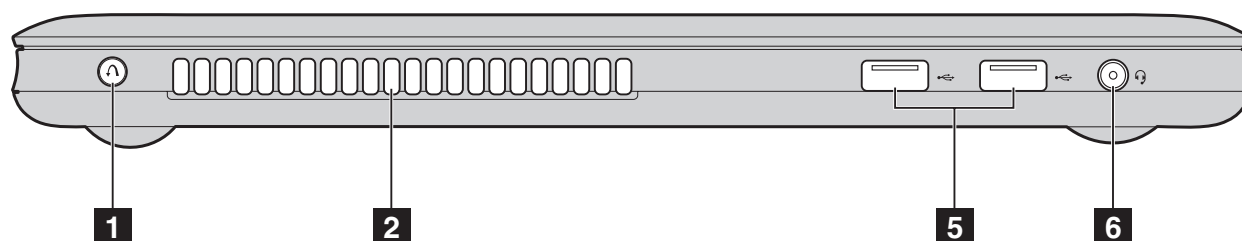
Chapter 1. Getting to know your computer

■ ■ Left-side view

■ U310



■ U410



- 1 OneKey Rescue system button** Press this button to open OneKey Rescue system when the computer is powered off.

Note: For details, see “OneKey Rescue system” on page 23.

- 2 Fan louvers** Dissipate internal heat.

Note: Make sure that none of the fan louvers are blocked or else overheating of the computer may occur.

- 3 RJ-45 port** This port connects the computer to an Ethernet network.

Note: For details, see “Wired connection” on page 19.

- 4 HDMI port** Connects to devices with HDMI input such as a TV or a display.

- 5 USB 2.0 port** Connect to USB devices.

Note: For details, see “Connecting USB devices” on page 15.

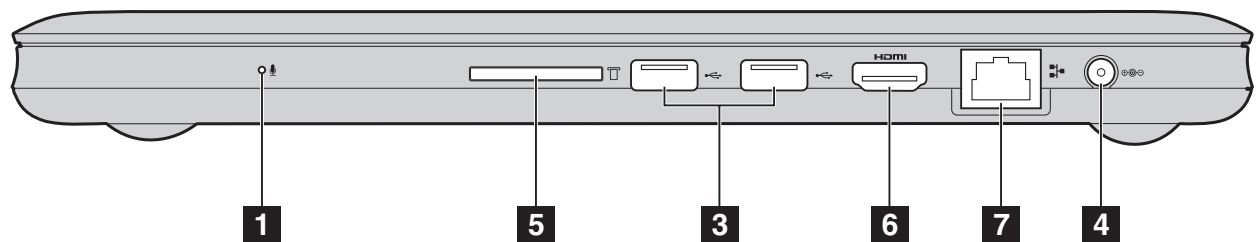
- 6 Combo audio jack** Connects to headphones or headsets. The combo audio jack does not support conventional microphones.

■ ■ Right-side view

■ U310



■ U410



- | | |
|------------------------------|---|
| 1 Built-in microphone | The built-in microphone (with noise reduction) can be used for video conferencing, voice narration, or simple audio recordings. |
| 2 Combo audio jack | Connects to headphones or headsets. The combo audio jack does not support conventional microphones. |
| 3 USB 3.0 port | Connects to USB devices. |

Note: For details, see “Connecting USB devices” on page 15.

- | | |
|--------------------------------|------------------------------|
| 4 AC power adapter jack | Connect the AC adapter here. |
|--------------------------------|------------------------------|

Note: For details, see “Using AC adapter and battery” on page 12.

- | | |
|---------------------------|--|
| 5 Memory card slot | Insert memory cards (not supplied) here. |
|---------------------------|--|

Note: For details, see “Using memory cards (not supplied)” on page 14.

- | | |
|--------------------|--|
| 6 HDMI port | Connects to devices with HDMI input such as a TV or a display. |
|--------------------|--|

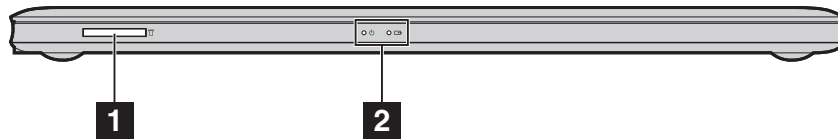
Chapter 1. Getting to know your computer

- 7 RJ-45 port** This port connects the computer to an Ethernet network.

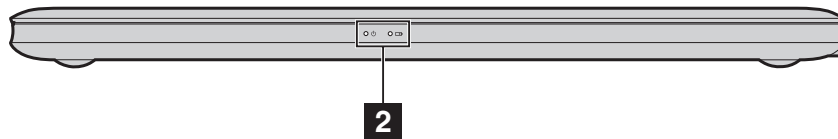
Note: For details, see “Wired connection” on page 19.

Front view

U310



U410



- 1 Memory card slot** Insert memory cards (not supplied) here.

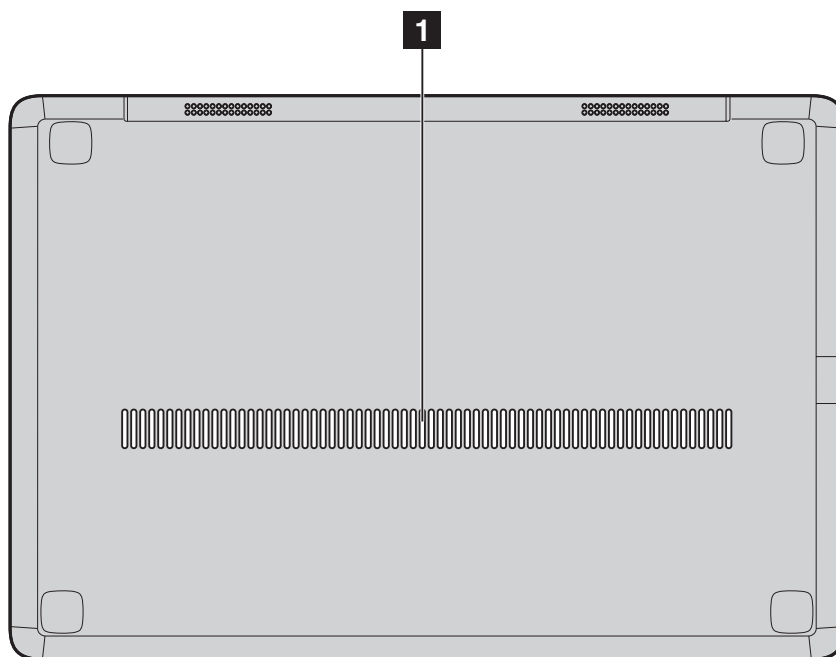
Note: For details, see “Using memory cards (not supplied)” on page 14.

- 2 System status indicators** For details, see “System status indicators” on page 18.

Chapter 1. Getting to know your computer

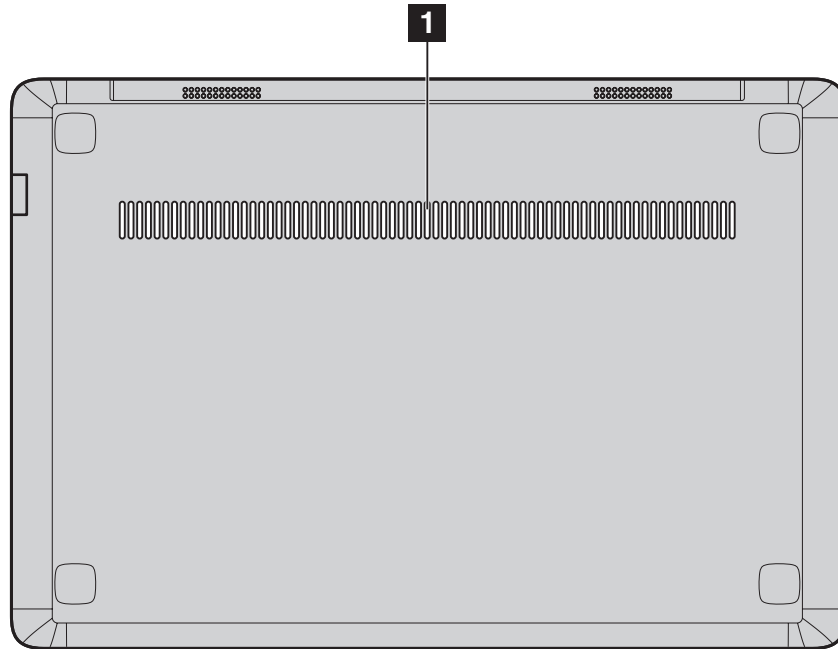
■ ■ Bottom view

■ U310



Chapter 1. Getting to know your computer

■ U410



1 Air inlet louvers

Make outside air go inside the computer through the louvers.

Chapter 2. Learning the basics

■ ■ First use

■ Reading the manuals

Read the supplied manuals before using your computer.

■ Connecting to the power

The supplied battery pack is not fully charged at purchase.

To charge the battery and begin using your computer, insert the battery pack and connect the computer to an electrical outlet. The battery is automatically charged while the computer is running on AC power.

Installing the battery pack

Refer to the supplied *Setup Poster* to install the battery pack.

Connecting the computer to an electrical outlet

- ❶ Connect the power cord to the AC adapter.
- ❷ Connect the AC adapter to the AC power adapter jack of the computer firmly.
- ❸ Plug the power cord into an electrical outlet.

■ Turning on the computer

Press the power button to turn on the computer.

■ Configuring the operating system

You may need to configure the operating system when it is first used. The configuration process may include the procedures below.

- Accepting the end user license agreement
- Configuring the Internet connection
- Registering the operating system
- Creating a user account

■ Putting your computer into sleep state or shutting it down

When you finish working with your computer, you can put it into sleep state or shut it down.

Putting your computer into sleep state

If you will be away from your computer for only a short time, put the computer into sleep state.

When the computer is in sleep state, you can quickly wake it to resume use, and bypass the startup process.

To put the computer into sleep state, do one of the following.

- Click  and select **Sleep** from the Start menu.
- Press **Fn + F1**.


Note: Wait until the power indicator light starts blinking (indicating that the computer is in sleep state) before you move your computer. Moving your computer while the hard disk is spinning can damage the hard disk, causing loss of data.

To wake the computer, do one of the following.

- Press the power button.
- Press any key on the keyboard.

■ Shutting down your computer

If you are not going to use your computer for a day or two, shut it down.

To shut down your computer, click  and select **Shut down** from the Start menu.

Chapter 2. Learning the basics

■ ■ Using AC adapter and battery

■ Checking battery status

You can determine the percentage of battery power remaining by checking the battery icon in the notification area.

Note: As each computer user has different habits and needs, it is difficult to predict how long a battery charge will last. There are two main factors:

- The amount of energy stored in the battery when you commence work.
- The way you use your computer: for example, how often you access the hard disk drive and how bright you make the computer display.

■ Charging the battery

When you find that the battery power is low, you need to charge the battery or replace it with a fully charged one.

You need to charge the battery in any of the following situations:

- When you purchase a new battery
- If the battery status indicator starts blinking
- If the battery has not been used for a long time

Notes:

- You are advised to insert the battery pack when using your computer to prevent small particles from entering the inside of your computer.
- To increase the life of the battery pack, the computer does not start recharging the battery immediately after it drops from fully charged.
- Charge the battery at a temperature between 50 °F and 86 °F (10 °C-30 °C).
- Full charge or discharge is not required.

■ Handling the battery

If the rechargeable battery pack is replaced with an incorrect type, there may be danger of an explosion. The battery pack contains a small amount of harmful substances. To avoid possible injury and detriment to the environment, pay attention to the following points:

- Replace only with a battery of the type recommended by Lenovo.
- Keep the battery pack away from fire.
- Do not expose the battery pack to water or rain.
- Do not attempt to disassemble the battery pack.
- Do not short-circuit the battery pack.
- Keep the battery pack away from children.
- Do not put the battery pack in trash that is disposed of in landfills. When disposing of the battery, comply with local ordinances or regulations and your company's safety standards.

Chapter 2. Learning the basics

■ ■ Connecting external devices

Your computer has a wide range of built-in features and connection capabilities.

■ Using memory cards (not supplied)

Your computer supports the following types of memory cards:

- Secure Digital (SD) card
- MultiMediaCard (MMC)

Notes:

- Insert **ONLY** one card in the slot at a time.
- This card reader does not support SDIO devices (e.g., SDIO Bluetooth, etc.).

Inserting a memory card

- ➊ Push the dummy card until you hear a click. Gently pull the dummy card out of the memory card slot.

Note: The dummy card is used for preventing dust and small particles from entering the inside of your computer when the memory card slot is not in use. Retain the dummy card for future use.

- ➋ Slide the memory card in until it clicks into place.

Removing a memory card

- ➊ Push the memory card until you hear a click.
- ➋ Gently pull the memory card out of the memory card slot.

Note: Before removing the memory card, disable it via Windows safely remove hardware and eject media utility to avoid data corruption.

■ Connecting USB devices

You can connect a USB device to your computer by inserting its USB plug (Type A) into the USB port on your computer.

The first time you plug a USB device into a particular USB port on your computer, Windows automatically installs a driver for that device. After the driver is installed, you can disconnect and reconnect the device without performing any additional steps.

Note: Typically, Windows detects a new device after connecting it, and then installs the driver automatically. However, some devices may require you to install the driver before connecting. Check the documentation provided by the device's manufacturer before connecting the device.

Before disconnecting a USB storage device, make sure your computer has finished transferring data by that device. Click the **Safely Remove Hardware** icon in the notification area of Windows to remove the device before disconnecting.

Note: If your USB device uses a power cord, connect the device to a power source before connecting it. Otherwise, the device may not be recognized.

Chapter 2. Learning the basics

■ ■ Securing your computer

This section provides information about how to help protect your computer from theft and unauthorized use.

■ Attaching a security lock (not supplied)

You can attach a security lock to your computer to help prevent it from being removed without your permission. For details on installing the security lock, please refer to the instructions shipped with the security lock that you have purchased.

Refer to the “Left-side view” on page 4 for the location of the Kensington slot.

Notes:

- Before purchasing any security product, verify that it is compatible with this type of security keyhole.
- You are responsible for evaluating, selecting, and implementing the locking devices and security features. Lenovo offers no comment judgement or warranty regarding the function, quality or performance of locking devices and security features.

■ Using VeriFace™

VeriFace is a face recognition software which takes a digital snapshot, extracts key features of your face, and creates a digital map that becomes the system’s “password”.

If you want to activate VeriFace for the first time, click the VeriFace icon on the desktop to register your facial image.

Notes:

- The face registration and verification works best in an environment with steady and even light.
- You can determine whether to use this function when you log on the system.

For more details on VeriFace, see the software help.

■ Using passwords

Using passwords helps prevent your computer from being used by others. Once you set a password and enable it, a prompt appears on the screen each time you power on the computer. Enter your password at the prompt. The computer cannot be used unless you enter the correct password.

Note: This password can be from one to seven alphanumeric characters in any combination.

For details about how to set the password, see the Help to the right of the screen in BIOS setup utility.

Note: To enter BIOS setup utility, press **F2** when the Lenovo logo appears on the screen while the computer is starting up.

■ ■ Switchable Graphics in two modes (on select models)

The Lenovo G-series model supports Switchable Graphics in two modes:

Mode 1 Select the graphics processor based on application needs

In this mode, the system allocates a graphics processor to some applications automatically. Alternatively, you can also manually select a graphics processor for your applications.

The default setting of your computer is Mode 1. To switch to Mode 2, please refer to “Switching between Mode 1 and Mode 2”.

Mode 2 Select the graphics processor manually or based on power source

In this mode, you can select a graphics processor manually or based on the power source status (AC/DC):

- **High-performance GPU:** It is also referred to as the independent GPU, which can provide higher graphics processing and display performance.
- **Power-Saving GPU:** It is also referred to as the integrated GPU, which can enable a longer running time of the battery.

Switch between the two graphics processors as follows:

- ① Start your computer under the Windows 7 operating system.
- ② Click **Start** → **All Programs** → **Catalyst Control Center**, and run the CCC.
- ③ Click **Power** → **Switchable Graphics** on the **Catalyst Control Center** setting page.

Chapter 2. Learning the basics

- ④ On the **Switchable Graphics** page, the currently active GPU is displayed under the **current active graphics processing unit**. You can click **High-performance GPU** or **Power-Saving GPU** under **Choose a Graphics Processing Unit** to switch the graphics processor.

Switching between Mode 1 and Mode 2

Switch between the two modes as follows:

- ① Start your computer under the Windows 7 operating system.
- ② Click **Start** → **All Programs** → **Catalyst Control Center**, and run the CCC.
- ③ On the **Catalyst Control Center** setting page, click **Power** → **Switchable Graphics Method**, choose **Select the graphics processor manually or based on power source**, and click **Apply**.
- ④ On the **Switchable Graphics** dialog box that appears, click **Change** to switch between the two modes.
- ⑤ On the contrary, you can switch back to Mode 1 from Mode 2.

Note: It may take several seconds to switch between Mode 1 and Mode 2.

Prior to switching between the two modes or manual switching between the two GPUs, it is recommended that you close any running applications.

Under the Windows XP or Windows Vista operating system, none of the configurations supports switching between graphics processors, and they can work only under the mode of integrated GPU.

Chapter 3. Connecting to the Internet

As a global network, the Internet connects computers worldwide, providing services such as e-mailing, information searching, electronic commerce, Web browsing and entertainment.

You can connect the computer to the Internet in the following ways:

Wired connection: use physical wiring to connect.

Wireless network technology: connect without wiring.

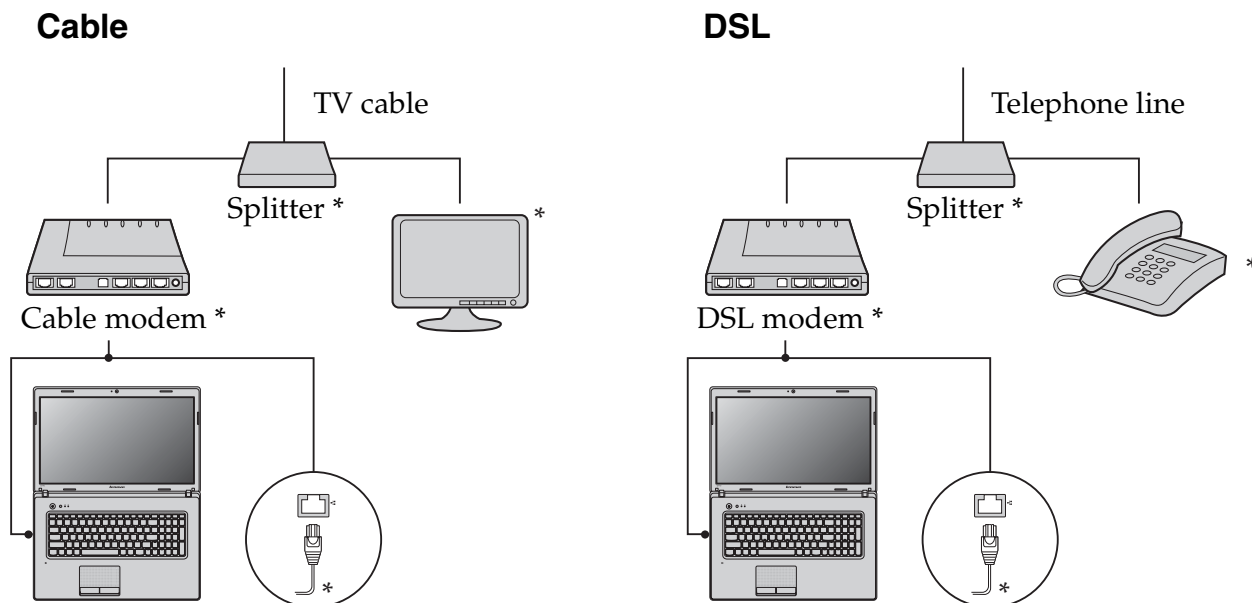
■ ■ Wired connection

Wired connections are a reliable and safe way to connect the computer to the Internet.

Cable	Cable Internet services use a cable modem connected to the residential cable TV line.
DSL	DSL is a family of related technologies that bring high-speed network access to homes and small businesses over ordinary telephone lines.

Chapter 3. Connecting to the Internet

■ Hardware connection:



Note: The above diagrams are for reference only. Actual connection method may vary.

■ Software configuration

Consult your Internet Service Provider (ISP) for details on how to configure your computer.

■ ■ Wireless connection

Wireless connections provide mobile access to the Internet, allowing you to stay online anywhere the wireless signal covers.

Divided by the signal scales, wireless connection to the Internet can be built based on the following standards.

Wi-Fi	Wi-Fi networks cover a small physical area, like a home, office, or small group of buildings. An access point is necessary for the connection.
WiMAX	WiMAX networks connect several Wireless LAN systems to cover a metropolitan area, providing high-speed broadband access without the need for cables.



Note: Your computer may not support all wireless connection methods.

Chapter 3. Connecting to the Internet

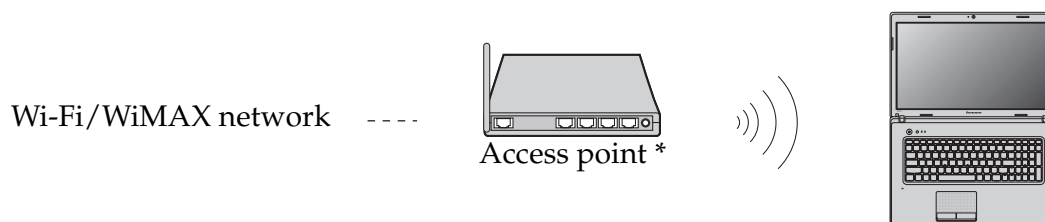
■ Using Wi-Fi/WiMAX (on select models)

Enabling wireless connection

To enable wireless communications, do the following:

- ① Slide the integrated wireless device switch from  to .
- ② Press **Fn + F5** to make configuration.

Hardware connection



* Not supplied

Software configuration

Consult your Internet Service Provider (ISP) and search Windows Help and Support Center for details on how to configure your computer.

Chapter 4. OneKey Rescue system

■ ■ OneKey Rescue system

■ Introduction

The Lenovo OneKey Rescue system is an easy-to-use application that can be used to back up the data on your system partition (C drive) for easy restore when required. You can run Lenovo OneKey Recovery under the Windows operating system, and the OneKey Rescue system without starting the Windows operating system.

◎ **Attention:**

In order to utilize the features of the OneKey Rescue system, your hard disk already includes a hidden partition by default to store the system image file and OneKey Rescue system program files. This default partition is hidden for security reasons and is the reason the available disk space is less than it claims. The exact available hard disk space depends on the file size of the mirror image file (based on the size of operating system and preinstalled software).

■ Using Lenovo OneKey Recovery (within Windows operating system)

In Windows operating system, double click the OneKey Recovery system Icon on the desktop to launch Lenovo OneKey Recovery.

Within the program, you can back up the system partition on the hard disk drive, other storage devices, or by creating recovery discs.

Notes:

- The backup process and creation of recovery discs may take some time, connect the AC adapter and battery pack to your computer.
- After the recovery discs are burned, please number them so that you can use them in the correct order.
- Computers without an integrated optical drive support the creation of recovery discs; however an appropriate external optical drive is needed to physically create the recovery discs.

For more instructions, see the Help file of Lenovo OneKey Recovery.

Chapter 4. OneKey Rescue system

■ Using Lenovo OneKey Rescue system (without Windows operating system)

In the event that the operating system cannot be loaded, follow the steps below to access OneKey Rescue system.

- Shut down your computer.
- Press the **⌫** key to launch OneKey Rescue system.

Within the program, you can choose to restore your system partition to the original factory status, or to a previously generated backup.

Note: The recovery process is irreversible. Make sure to back up any critical data before using the recovery feature.

■ Creating a recovery disc(s)

Your computer does not ship with a recovery disc. You can use Lenovo OneKey Recovery system to create a recovery disc(s), which can be used to start and restore your computer in case of a system failure.

To create a recovery disc(s):

- Insert a recordable disc into the optical drive on your computer.

Note: If your computer does not come with an integrated optical drive or if the integrated optical drive does not support disc creating, connect an appropriate external optical drive to your computer.

- In Windows, press the OneKey Rescue system button to launch Lenovo OneKey Recovery system.
- On the main screen, click **Create Recovery Disc**.
- Choose the type of recovery disc(s). You can create three types of recovery disc(s): recovery disc(s) with existing backup image, recovery disc(s) from the current system partition, and factory default recovery disc(s). Select the type of recovery disc you want to create and follow the on-screen instructions.
- Insert additional recordable disc(s) when prompted.

Chapter 4. OneKey Rescue system

Notes:

- The estimated number of discs needed will be displayed before the process of creating the recovery disc(s) begins. To minimize the number of discs needed, use recordable DVDs as the media. Also make sure your optical drive is compatible with the disc intended for use.
- After recovery disc creation, number the discs appropriately for use in their correct order. The first disc created will be used to start the computer in the case of a system failure.

Chapter 5. Troubleshooting

■ ■ Frequently asked questions

This section lists frequently asked questions and tells where you can find detailed answers.

What safety precautions should I follow when using my computer?

See “Chapter 1. Important safety information” of *Lenovo Safety and General Information Guide*.

How can I prevent problems with my computer?

See “Chapter 2. Use and care Information” of *Lenovo Safety and General Information Guide*.

What are the main hardware features of my computer?

More information can be found in Chapter 1 and 2.

Where can I find the detailed specifications for my computer?

See <http://consumersupport.lenovo.com>.

I need to upgrade a device *or* I need to replace one of the following: the hard disk drive, memory, or the keyboard.

See “Appendix A. CRU instructions” on page 35 of this guide.

Where are the recovery discs?

Your computer did not come with a recovery disc. For an explanation of the alternative recovery methods offered by Lenovo, see “Chapter 4. OneKey Rescue system” on page 23.

Where are the installation discs for preinstalled programs?

Installation discs for preinstalled programs are not supplied with Windows preinstalled computers. You can visit the Lenovo consumer support Web site to find all preinstalled software downloads.

By default, you can find some installation backups for certain preinstalled software in the APP folder under the D driver.

How can I contact the customer support center?

See “Chapter 3. Getting help and service” of *Lenovo Safety and General Information Guide*.

Where can I find warranty information?

For the warranty applicable to your computer, including the warranty period and type of warranty service, see the Lenovo limited warranty flyer that came with your computer.

How can I install the device drivers?

A compatible device driver is a requirement to ensure correct operation and performance of each component in your computer. If your computer is pre-installed with an operating system, Lenovo provides all drivers that you need in your hard disk.

What can I do if the backup process fails?

If you can start the backup feature without a problem, but it fails during the backup process, please try the following steps:

- ❶ Close other programs, then restart the backup process.
- ❷ Check if the destination media is damaged, try to select another path and then try again.

When do I need to restore the system to the factory status?

You can use this feature when your system fails or you need to re-install your operating system. This will restore your computer back to the initial status when you first booted up your computer after receiving it from the store. If there is critical data on your current partition, back it up before you run this recovery feature.

Chapter 5. Troubleshooting

■ ■ Troubleshooting

If you do not find your problem here, see Chapter 2. The following section only describes problems that might negate the need to refer to the more comprehensive information in Chapter 2.

Display problems

When I turn on the computer, nothing appears on the screen.

- If the screen is blank, make sure that:
 - The battery is installed correctly.
 - The AC adapter is connected to the computer and the power cord is plugged into a working electrical outlet.
 - The computer power is on. (Press the power button again for confirmation.)
 - The memory is installed correctly.
- If these items are properly set, and the screen remains blank, have the computer serviced.

When I turn on the computer, only a white cursor appears on a blank screen.

- Restore backed-up files to your Windows environment or the entire contents of your hard disk to the original factory contents using OneKey Rescue system. If you still see only the cursor on the screen, have the computer serviced.

My screen goes blank while the computer is on.

- Your screen saver or power management may be enabled. Do one of the following to exit from the screen saver or to resume from sleep or hibernation mode:
 - Touch the touchpad.
 - Press any key on the keyboard.
 - Press the power button.
 - Press **Fn + F2** to confirm whether the backlight for the LCD screen has been turned off.

Password problems

I forgot my password.

- If you forget your user password, you must take your computer to a Lenovo authorized servicer or a marketing representative to have the password changed.
- If you forget your HDD password, a Lenovo authorized servicer cannot reset your password or recover data from the hard disk. You must take your computer to a Lenovo authorized servicer or a marketing representative to have the hard disk drive replaced. Proof of purchase is required, and a fee will be charged for parts and service.
- If you forget your supervisor password, a Lenovo authorized servicer cannot reset your password. You must take your computer to a Lenovo authorized servicer or a marketing representative to have the system board replaced. Proof of purchase is required, and a fee will be charged for parts and service.

Sleep or hibernation problems

The critical low-battery error message appears, and the computer immediately turns off.

- The battery power is getting low. Connect the AC adapter to the computer, or replace the battery with a fully charged one.

The computer enters sleep mode immediately after Power-on self-test (POST).

- Make sure that:
 - The battery is charged.
 - The operating temperature is within the acceptable range. See “Chapter 2. Use and care Information” of *Lenovo Safety and General Information Guide*.

Note: If the battery is charged and the temperature is within range, have the computer serviced.

The computer does not return from sleep mode and the computer does not work.

- If the computer does not return from sleep mode, it may have entered hibernation mode automatically because the battery is depleted. Check the power indicator.
- If your computer is in sleep mode, connect the AC adapter to the computer, then press any key or the power button.
- If your computer is in hibernation mode or power-off state, connect the AC adapter to the computer, then press the power button to resume operation.

Note: If the system still does not return from sleep mode, your system has stopped responding, and you cannot turn off the computer; reset the computer. Unsaved data may be lost. To reset the computer, press and hold the power button for 4 seconds or more. If the computer is still not reset, remove the AC adapter and the battery.

Chapter 5. Troubleshooting

Computer screen problems

- | | |
|--|--|
| The screen is blank. | <ul style="list-style-type: none">• Do the following:<ul style="list-style-type: none">- If you are using the AC adapter, or using the battery, and the battery status indicator is on, press Fn + ↑ to make the screen brighter.- If the power indicator is in blinking, press the power button to resume from the sleep mode.- If the problem persists, follow the solution in the following problem “The screen is unreadable or distorted.”- Press Fn + F2 to confirm whether the LCD screen has been turned off. |
| The screen is unreadable or distorted. | <ul style="list-style-type: none">• Make sure that:<ul style="list-style-type: none">- The display device driver is installed correctly.- The screen resolution and color quality are correctly set.- The monitor type is correct. |
| Incorrect characters appear on the screen. | <ul style="list-style-type: none">• Did you install the operating system or programs correctly? If they are installed and configured correctly, have the computer serviced. |

Sound problems

- | | |
|---|--|
| No sound can be heard from the speaker even when the volume is turned up. | <ul style="list-style-type: none">• Make sure that:<ul style="list-style-type: none">- The Mute function is off.- The headphone jack is not used.- Speakers are selected as the playback device. |
|---|--|

Battery problems

- | | |
|---|---|
| Your computer shuts down before the battery status indicator shows empty.
-or-
Your computer operates after the battery status indicator shows empty. | <ul style="list-style-type: none">• Discharge and recharge the battery. |
| The computer does not operate with a fully charged battery. | <ul style="list-style-type: none">• The surge protector in the battery might be active. Turn off the computer for one minute to reset the protector; then turn on the computer again. |

A hard disk drive problem

- | | |
|------------------------------------|---|
| The hard disk drive does not work. | <ul style="list-style-type: none">• In the Boot menu in BIOS setup utility, make sure that the hard disk drive is included in the Boot Device Priority correctly. |
|------------------------------------|---|

A startup problem

The Microsoft® Windows operating system does not start.

- Use the OneKey Rescue system to help solve or identify your problem. For details about OneKey Rescue system, see “Chapter 4. OneKey Rescue system” on page 23.

OneKey Rescue system problems

Backup cannot be made.

- You are not currently using a Windows operating system.
- There is not enough space to store the backed up data. You will need to free more hard disk space on your system partition (C drive).

Fail to restore system partition to factory default.

- The system partition, such as the partition size or the drive capacity of C, has been modified.

Other problems

Your computer does not respond.

- To turn off your computer, press and hold the power button for 4 seconds or more. If the computer still does not respond, remove the AC adapter and the battery.
- Your computer might lock when it enters sleep mode during a communication operation. Disable the sleep timer when you are working on the network.

The computer does not start from a device you want.

- See the **Boot** menu of the BIOS setup utility. Make sure that the **Boot Device Priority** in the BIOS setup utility is set so that the computer starts from the device you want.
- Also make sure that the device from which the computer starts is enabled. In the **Boot** menu in the BIOS setup utility, make sure that the device is included in the **Boot Device Priority** list.
- Press **F12** when the Lenovo logo appears on the screen while the computer is starting up to select the device you want the computer starts from.

The connected external device does not work.

- Do not connect or disconnect any external device cables other than USB while the computer power is on; otherwise, you might damage your computer.
- When using a high power consumption external devices such as an external USB optical disk drive, use external device power adapter. Otherwise, the device may not be recognized, or system shut down may result.

Specifications

Model Name: U310/U410

Machine Type: 20169, 3725 / 20170, 3726

Note: The following specifications may contain technical inaccuracies or typographical errors.
Lenovo reserves the right to improve and/or change specifications at any time without notice.

	U310	U410
Form Factor		
Dimensions	Appr. 333 mm × 225 mm × 18 mm	Appr. 344 mm × 235 mm × 21 mm
Weight	Appr. 1.7 kg	Appr. 1.8 kg
LCD size	13.3-inch	14.0-inch
Platform		
Platform	Intel Panther point & HM77	
Memory		
Type and speed	DDR3-1333 or DDR3-1600	
Maximum supported capacity	4 GB	8 GB
Slots	SODIMM × 2	
Hard disk drive		
Form factor	2.5-inch, 7.0 mm	2.5-inch, 9.5 mm or 2.5-inch, 7.0 mm
Interface	SATA II	
Display		
Display resolution (LCD)	16:9 (1,336 × 768 pixels)	
Maximum display resolution on external display device	2,048 × 1,536 pixels	
LCD backlight	LED	

I/O Ports

USB	USB 2.0 × 1, USB 3.0 × 2	USB 2.0 × 2, USB 3.0 × 2
Audio	Combo audio jack ×1	
Communication	RJ-45 × 1	
Video/Audio	HDMI × 1	
Card reader	2 in 1 slot × 1 (MMC, SD)	

Battery pack

Type	Li-Polymer	
Cells/Capacity	3 cell, 46 Wh	4 cell, 59 Wh

AC adapter

Input	100 - 240 V, 50 - 60 Hz AC	
Output voltage	20 V DC	
Power	40 W or 65 W	65 W or 90 W

Miscellaneous

Camera	0.3 or 1.0 mega pixels	
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IMPORTANT NOTE:

Federal Communication Commission (FCC) Radiation Exposure Statement This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

FCC Caution:

1. This device complies with Part 15 of the FCC rules/Industry Canada RSS 210 standard . 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.

2. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

3. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

Industry Canada Caution

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement:

This device complies with the exemption from the routine evaluation limits in Section 2.5 of RSS 102.

Déclaration IC d'exposition aux radiations:

Cet appareil est conforme avec l'exemption des limites d'évaluation courante dans la section 2.5 du RSS 102.

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