

lenovo

Lenovo Yoga 2 11

User Guide



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

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® 8. If you are using another 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 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

- The *Regulatory Notice* provides information about the radio frequency and safety standards. Be sure to read it before using wireless devices on your computer.
- To refer to it, go to <http://www.lenovo.com>, click **Support**, and then click **User's guides and manuals**.

First Edition (August 2013)

© Copyright Lenovo 2013.

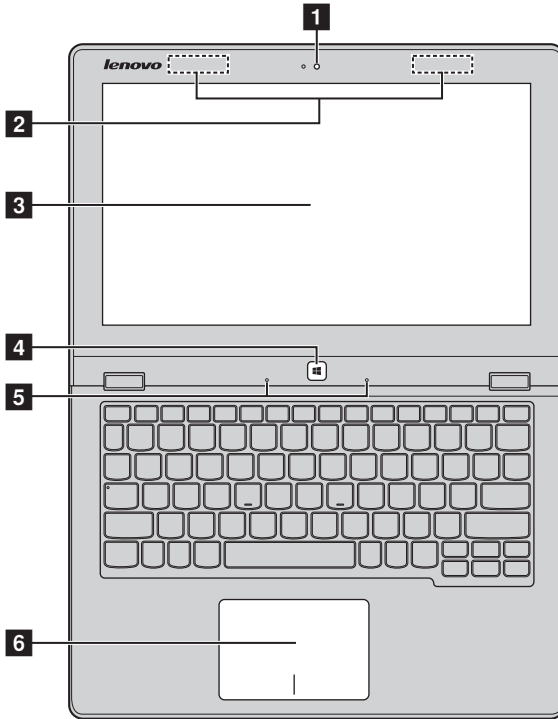
LIMITED AND RESTRICTED RIGHTS NOTICE: If data or software is delivered pursuant to a General Services Administration "GSA" contract, use, reproduction, or disclosure is subject to restrictions set forth in Contract No. GS-35F-05925.

Contents

Chapter 1. Getting to know your computer	1
Top view	1
Left-side view	8
Right-side view	11
Chapter 2. Starting to use Windows 8	12
Configuring the operating system for the first time	12
Operating system interfaces	12
The charms	13
Putting the computer to sleep or shutting it down	15
Touch screen operation	17
Connecting to wireless LAN	21
Help and support	22
Chapter 3	23
Lenovo OneKey Recovery System	23
Chapter 4. Troubleshooting	24
Frequently asked questions	24
Troubleshooting	26
Trademarks	29

Chapter 1. Getting to know your computer

■ ■ Top view



Note: The dashed areas indicate parts that are not visible externally.

⦿ Attention:

- 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 (on select models)** Use the camera for the video communication.
- 2 Wireless LAN antennas** Connect to the wireless LAN adapter to send and receive wireless radio signals.
- 3 Multi-touch screen** Functions as the visual display as well as one of the two primary input methods.

Note: For details, see “Touch screen operation” on page 17.

- 4 Windows button** Press this button to:
Toggle between the current view and the Start screen.
-or-
Wake up the computer from sleep mode.
- 5 Built-in microphones** Capture sound which can be used for video conferencing, voice narration, or audio recording.
- 6 Touch pad** The touch pad functions as a conventional mouse.

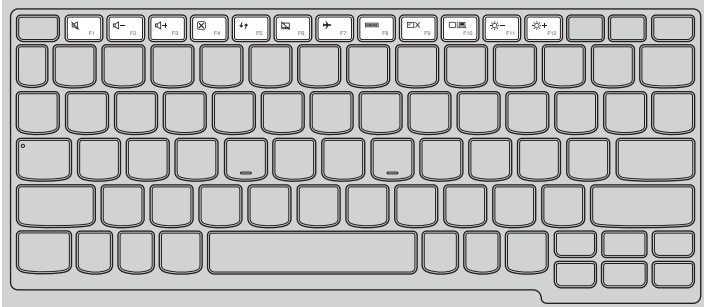
Touch pad: To move the pointer on the screen, slide your fingertip over the pad in the direction in which you want the pointer to move.













Touch pad buttons: The functions of the left/right side correspond to those of the left/right mouse button on a conventional mouse.

Note: You can enable/disable the touch pad by pressing **F6** ()

■ **Keyboard function keys**

You can access certain system settings quickly by pressing the appropriate function keys.



 : Mutes/unmutes the sound.	 : Enables/disables Airplane mode.
 : Decreases the volume level.	 : Displays all currently active apps.
 : Increases the volume level.	 : Turns on/off the backlight of the LCD screen.
 : Closes the currently active window.	 : Toggles the display between the computer and an external device.
 : Refreshes the desktop or the currently active window.	 : Decreases the display brightness.
 : Enables/disables the touch pad.	 : Increases the display brightness.

Note: By default, the screen brightness is set automatically (based on the ambient light level). If you want to adjust the brightness of the screen manually, open the charms bar and select **Settings** → **Change PC settings** → **General** → **Screen (Adjust my screen brightness automatically)** and toggle the switch to **Off**.

Chapter 1. Getting to know your computer

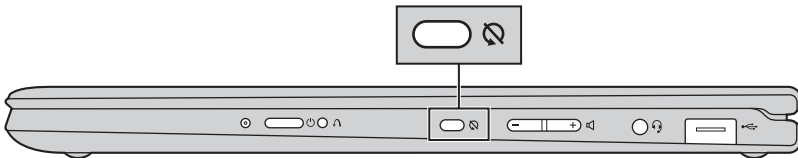
■ Screen orientation

You can rotate the display panel to your preferred orientation.

- The orientation of the display automatically changes (alternating between portrait and landscape modes) depending upon how you hold the computer.



- To prevent automatic orientation, press the rotation lock button. It is located on the right edge of the computer. (See below illustration).



■ **Positioning the display panel**

The display panel can be opened to any angle up to 360 degrees.



Notebook Mode



Suitable for tasks that require a keyboard and mouse (such as creating documents, writing e-mails, and so on).

Chapter 1. Getting to know your computer

Stand Mode (Theater Mode)



Suitable for tasks that require little or no touch (such as viewing photos or playing videos).

Tablet Mode



Suitable for tasks that require touching the screen often (such as surfing the Web, playing games, and so on).

Tent Mode (Presentation Mode)



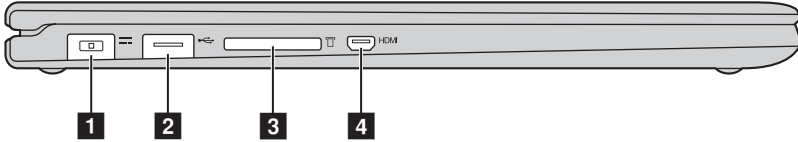
Suitable for tasks that require limited interaction with the touch screen (such as displaying graphs or a PowerPoint presentations).

⦿ **Attention:**

- Do *not* open the display with too much force, otherwise the panel or hinges may be damaged.

Note: The keyboard and touch pad are automatically locked when the screen is opened beyond 190 degrees (approximately).

■ ■ Left-side view



1 AC power adapter jack Connect the AC power adapter here.

2 USB port Connects to USB devices.

Note: For details, see “Connecting USB devices” on page 9.

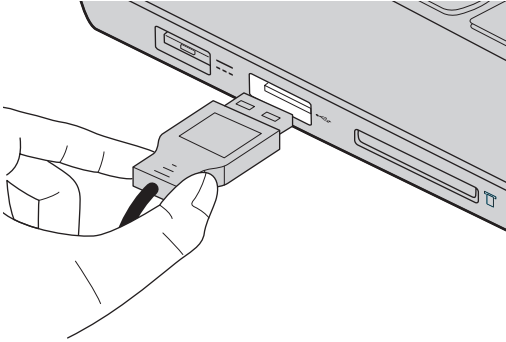
3 Memory card slot Insert memory cards (not supplied) here.

Note: For details, see “Using memory cards (not supplied)” on page 10.

4 HDMI port Connects to devices with HDMI input such as a TV or an external display.

■ Connecting USB devices

Your computer comes with two USB ports compatible with USB devices.



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 has been installed, you can disconnect and reconnect the device without performing any additional steps.

Note: Typically, Windows detects a new device after it has been connected, 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 to that device. Click the **Safely Remove Hardware and Eject Media** icon in the Windows notification area 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 1. Getting to know your computer

■ 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

- ① Push the dummy card in until you hear a click.
- ② 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.

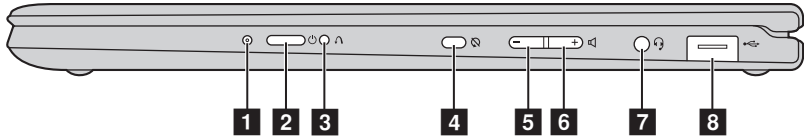
- ③ Slide the memory card in until it clicks into place.

Removing a memory card

- ① Push the memory card in until you hear a click.
- ② Gently pull the memory card out of the memory card slot.

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

Right-side view



1 Power and battery status indicator

2 Power button

Press this button to turn on the computer.

3 Novo button

When the computer is off, press this button to start the Lenovo OneKey Recovery System or the BIOS setup utility, or to enter the boot menu.

4 Rotation lock button

Keeps the screen locked in portrait or landscape orientation. Locking the screen rotation will disable the gravity sensing function, thereby preventing the screen from changing its orientation automatically depending upon the angle at which it is held.

5 Volume down button

Decreases the volume level.

6 Volume up button

Increases the volume level.

7 Combo audio jack

Connects to headsets.

Notes:

- The combo audio jack does not support conventional microphones.
- The recording function may not be supported if third-party headphones or headsets are connected, due to different industry standards.

8 USB port

Connects to USB 2.0 devices.

Note: For details, see “Connecting USB devices” on page 9.

Chapter 2. Starting to use Windows 8

■ ■ Configuring the operating system for the first time

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


■ ■ Operating system interfaces

Windows 8 comes with two main User Interface: the Start screen and the desktop.

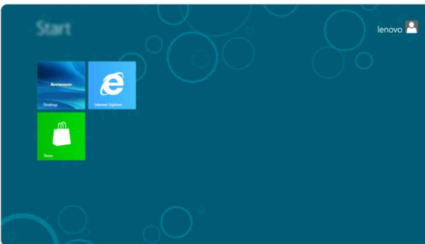
To switch from the Start screen to the desktop, do one of the following:

- Select the desktop tile on the Start screen.
- Press the Windows button.
- Press Windows key + D.

To switch from the desktop to the Start screen, do one of the following:

- Select **Start**  from the charms.
- Move the pointer to the lower-left corner and then select the Start screen thumbnail when it is displayed.

Start screen



Desktop

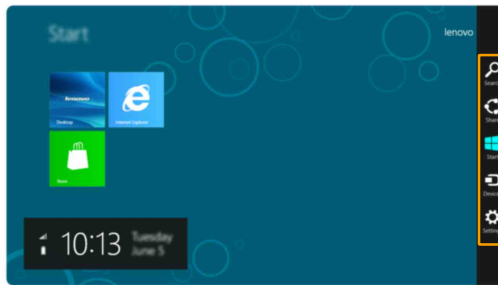


■ ■ The charms

The five charms provide new and faster ways to perform many basic tasks, and are always available regardless of which app you are currently in.

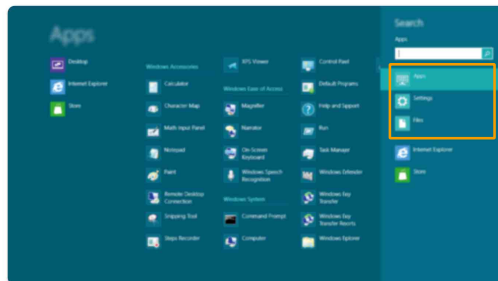
To display the charms, do one of the following:

- Move the pointer to the upper-right or lower-right corner until the charms bar is displayed.
- Use one finger to swipe in from the right edge of the screen until the charms bar is displayed.
- Press Windows key + C.



Search charm

The **Search** charm is a powerful new way to find whatever you are looking for, including apps, settings and files.



Chapter 2. Starting to use Windows 8

Share charm

The **Share** charm lets you send links, photos, and more to your friends and social networks without leaving the app you are in.

Start charm

The **Start** charm is a fast way to go to the Start screen.

Devices charm

The **Devices** charm allows you to connect or send files to any external devices, such as digital cameras, TVs, or printers.

Settings charm

The **Settings** charm lets you perform basic tasks, such as setting the volume or shutting down the computer. Also, you can get to the Control Panel through the **Settings** charm when using the desktop screen.



■ ■ Putting the computer to sleep or shutting it down

When you have finished working with your computer, you can put it to sleep or shut it down.

■ Putting your computer to sleep

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

When the computer is in sleep mode, you can quickly wake it to resume use, bypassing the startup process.

To put the computer to sleep, do one of the following:

- Close the display panel.
- Press the Power button.
- Open the charms and then select **Settings**  → **Power**  → **Sleep**.

Note: Put your computer to sleep before you move it. 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:

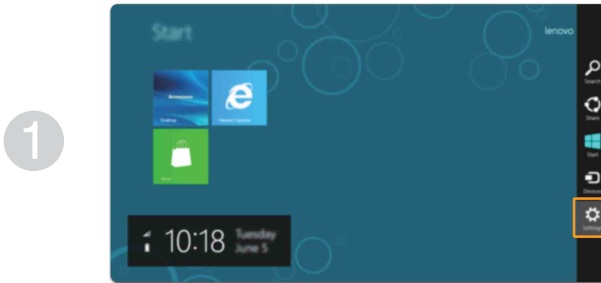
- Press any key on the keyboard. (Notebook mode only)
- Press the Power button.
- Press the Windows button.

Chapter 2. Starting to use Windows 8

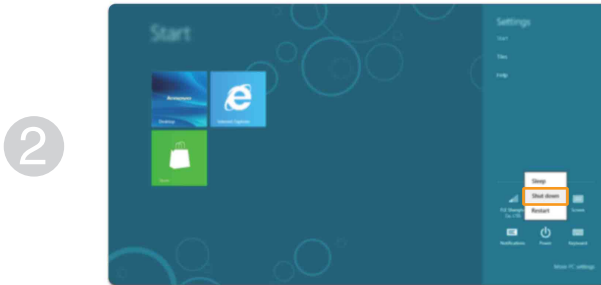
■ Shutting down the computer

If you are not going to use your computer for a long time, shut it down.
To shut down your computer:

- 1 Open the charms, and then select **Settings** .



- 2 Select **Power**  → **Shut down**.

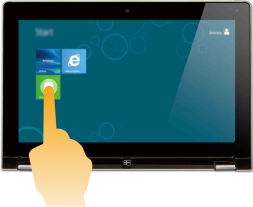



■ Touch screen operation




The display panel can accept inputs like a tablet, using the multi-touch screen, or like a traditional notebook computer, using the keyboard and touch pad.

■ Multi-touch gestures


You can touch the screen with one or more fingertips to perform a variety of tasks.

Frequently used gestures	Tasks performed
<p>Tap Tap once on an item.</p> 	<p>Performs an action, such as starting an app, opening a link, or performing a command. Similar to left-clicking with a mouse.</p>
<p>Press and hold Press your finger down and leave it there for a moment.</p> 	<p>Allows you to see detailed information before selecting an action. Can also open a menu with more options. Similar to right-clicking with a mouse.</p>


(continued)

Frequently used gestures	Tasks performed
<p>Zoom Move two fingers together or apart while touching the screen.</p> 	<p>Zooms in and out on visual apps, such as pictures and maps. Can also jump to the beginning or end of a list.</p>
<p>Rotate Place two or more fingers on an item and then turn your hand.</p> 	<p>Turns an object. (Note: Not all items can be rotated, depending upon the app.)</p>
<p>Slide Drag your finger across the screen.</p> 	<p>Pans or scrolls through lists and pages. Can also move an object or be used to draw or write, depending upon the app. Similar to pressing and holding to pan and to scrolling with a mouse.</p>

(continued)

Frequently used gestures	Tasks performed
<p>Swipe Start from any edge of the screen, then swipe inwards toward the center.</p> 	<p>Swiping down from the top edge or up from the bottom edge displays a task bar on the bottom of the screen with app commands, including save, edit, and delete.</p> <p>If you have an app currently open, you can also:</p> <ul style="list-style-type: none"> • Swipe from the top edge to halfway down the screen without lifting your finger to dock that app on the left or right side of the screen. This allows you to keep two apps open simultaneously in a split-screen format. • Swipe from the top edge straight down to the bottom edge of the screen continuously without lifting your finger to close the currently open app.


(continued)

Frequently used gestures	Tasks performed
	<p>Swiping in from the left edge can:</p> <ul style="list-style-type: none">• Bring in and open an app currently running in the background. <p>If there is more than one currently open app, you can:</p> <ul style="list-style-type: none">• Swipe in from the left to bring in an app and, without lifting your finger, push that app quickly back off the left edge of the screen. This displays a list of the apps currently running in the background. <p>Swiping in from the right edge of the screen displays the charms.</p>

■ ■ Connecting to wireless LAN




Enabling wireless connection

To confirm that Airplane mode is disabled, go to the desktop and check the notification area.

If you see the  icon displayed on the lower right, then Airplane mode is on. Otherwise, wireless function is enabled.

Note: Airplane mode should be disabled by default.

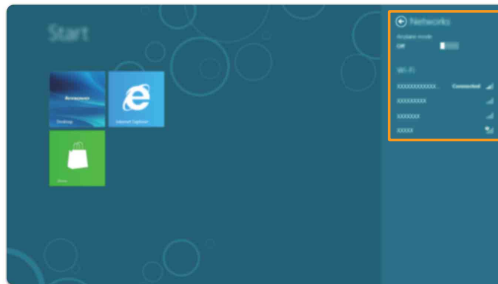
If Airplane mode is on, do one of the following to enable the wireless function:

- Press F7 () to disable Airplane mode.
- Open the charms, select **Settings**  →  to open the Network configuration page, and then toggle Airplane mode switch to **Off**.

Connecting to a wireless LAN

After wireless has been enabled, the computer will automatically scan for available wireless networks and display them in the wireless LAN network list. To connect to a wireless network, click the network name in the list, and then click **Connect**.

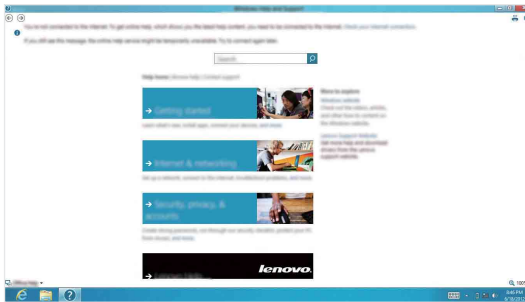
Note: Some networks require a network security key or passphrase for connection. To connect to one of those networks, ask the network administrator or the Internet Service Provider (ISP) for the security key or passphrase.



■ ■ Help and support

If you have any problems using the operating system, see the Windows Help and Support file. To open the Windows Help and Support file, do one of the following:

- Select the **Settings** charm, then select **Help**.
- Press Fn + F1.



You can read the Windows Help and Support file on your computer. You can also get online help and support by clicking the link listed under **More to explore**.

Chapter 3. Lenovo OneKey Recovery System

The Lenovo OneKey Recovery System is software designed to back up and restore your computer. You can use it to restore the system partition to its original status in case of a system failure. You can also create user backups for easy restoration as required.

Note: To utilize the features of the OneKey Recovery System, your hard disk already includes a hidden partition by default to store the system image file and the OneKey Recovery System program files. This default partition is hidden for security reasons, which explains why the available disk space is less than the stated capacity.

■ Backing up the system partition

You can back up the system partition to an image file. To back up the system partition:

- 1 Press the Novo button to start the Lenovo OneKey Recovery System.
- 2 Click **System Backup**.
- 3 Select a back-up location and click **Next** to start the backup.

Notes:

- You can choose a back-up location on the local hard disk drive or an external storage device.
- Remove the removable hard disk drive before starting the Lenovo OneKey Recovery System. Otherwise, data from the removable hard disk drive might be lost.
- The back-up process may take a while.
- The back-up process is only available when Windows can be started normally.

■ Restoring

You can choose to restore the system partition to its original status or to a previously created back-up point. To restore the system partition:

- 1 Press the Novo button to start the Lenovo OneKey Recovery System.
- 2 Click **System Recovery**. The computer will restart to the recovery environment.
- 3 Follow the on-screen instructions to restore the system partition to its original status or to a previously created back-up point.

Notes:

- The recovery process is irreversible. Make sure to back up any data you wish to save on the system partition before starting the recovery process.
- The recovery process may take a while. So be sure to connect the AC power adapter to your computer during the recovery process.
- The above instructions should be followed when Windows can be started normally.

If Windows cannot be started, then follow the steps below to start the Lenovo OneKey Recovery System:

- 1 Shut down the computer.
- 2 Press the Novo button. From the Novo button menu, select the Lenovo OneKey Recovery System and press Enter.

Chapter 4. Troubleshooting

■ ■ Frequently asked questions

This section lists frequently asked questions by category.

■ Finding information

What safety precautions should I follow when using my computer?

The *Lenovo Safety and General Information Guide* which came with your computer contains safety precautions for using your computer. Read and follow all the precautions when using your computer.

Where can I find the hardware specifications for my computer?

You can find hardware specification for your computer on the printed flyers which came with your computer.

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.

■ Drivers and preinstalled software

Where are the installation discs for Lenovo preinstalled software (desktop software)?

Your computer did not come with installation discs for Lenovo preinstalled software. If you need to reinstall any preinstalled software, you can find the installation program on the D partition of your hard disk. If you cannot find the installation program there, you can also download it from the Lenovo consumer support website.

Where can I find drivers for the various hardware devices of my computer?

If your computer is preinstalled with a Windows operating system, Lenovo provides drivers for all the hardware devices that you need on the D partition of your hard disk. You can also download the latest device drivers from the Lenovo consumer support website.

■ Lenovo OneKey Recovery System

Where are the recovery discs?

Your computer did not come with recovery discs. Use the Lenovo OneKey Recovery System if you need to restore the system to its factory status.

What can I do if the back-up process fails?

If you can start the backup but it fails during the back-up process, try the following steps:

- 1 Close all open programs, and then restart the back-up process.
- 2 Check to see if the destination media is damaged. Select another path and then try again.

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

Use this feature when the operating system fails to start up. If there is critical data on the system partition, back it up before starting recovery.

■ BIOS setup utility

What is the BIOS setup utility?

The BIOS setup utility is ROM-based software. It displays basic computer information and provides options for setting boot devices, security, hardware mode, and other preferences.

How can I start the BIOS setup utility?

To start the BIOS setup utility:

- 1 Shut down the computer.
- 2 Press the Novo button and then select **BIOS Setup**.

How can I change the boot mode?

There are two boot modes: UEFI and Legacy. To change the boot mode, start the BIOS setup utility and set boot mode to UEFI or Legacy support on the boot menu.

When do I need to change the boot mode?

The default boot mode for your computer is UEFI mode. If you need to install a legacy Windows operating system (that is, any operating system before Windows 8) on your computer, you must change the boot mode to Legacy support. The legacy Windows operating system cannot be installed if you don't change the boot mode.

■ Getting help

How can I contact the customer support center?

See "Chapter 3. Getting help and service" in the *Lenovo Safety and General Information Guide*.

■ ■ Troubleshooting

If you do not find your problem here, see Chapter 1. The following section only describes problems that might negate the need to refer to the more comprehensive information in Chapter 1.

Display problems


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

- If the screen is blank, make sure that:
 - The AC power 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.)
- 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 its original factory contents using the Lenovo OneKey Recovery System. If you still see only the cursor on the screen, have the computer serviced.

The screen goes blank while the computer is on.

- Your power management is enabled. Do one of the following to resume from sleep or hibernation mode:
 - Press any key on the keyboard. (Notebook mode only)
 - Press the Power button.
 - Press the Windows button.
 - Press **F9** () to confirm whether the backlight of the LCD screen has been turned off.

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 power adapter to the computer.

The computer enters sleep mode immediately after Power-on.

- Make sure that:
 - The battery is charged.
 - The operating temperature is within the acceptable range. See "Chapter 2. Use and care Information" in the *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 power adapter to the computer, then press the Windows button or the Power button.
- If your computer is in hibernation mode or powered-off, connect the AC power 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 five seconds or more. If the computer still does not reset, remove the AC power adapter.

Display panel problems

The screen is blank.

- Do the following:
 - If you are using the AC power adapter or the battery, and the battery status indicator is on, press **F12** () to make the screen brighter.
 - If the power indicator is blinking, press the Power button to resume from sleep mode.
 - If the problem persists, follow the solution in the next problem “The screen is unreadable or distorted.”
 - Press **F9** () to confirm whether the backlight of the LCD screen has been turned off.

The screen is unreadable or distorted.

- Make sure that:
 - The screen resolution and color quality are correctly set.
 - The monitor type is correct.

Incorrect characters appear on the screen.

- Are the operating system or programs installed 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.

- Make sure that:
 - The Mute function is off.
 - The combo audio jack is not being used.
 - Speakers are selected as the playback device.

Chapter 4. Troubleshooting

Battery problems

Your computer shuts down before the battery status indicator shows empty.

-or-

Your computer operates after the battery status indicator shows empty.

- Recharge the battery.

A startup problem

The Microsoft® Windows operating system does not start.

- For details, see “Lenovo OneKey Recovery System” on page 23.

OneKey Recovery System problems

Backup cannot be made.

- Make sure that you are currently using a Windows operating system.
- There may not be enough space to store the backed-up data. You will need to free more hard disk space on your backup's partition.

Failure to restore system partition to factory default.

- The system partition (e.g. 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 five seconds or more. If the computer still does not respond, remove the AC power adapter.
- 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 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 high power consumption external devices such as an external USB optical disk drive, use an external device power adapter. Otherwise, the device may not be recognized, or the system may shut down as a result.

Trademarks

The following terms are trademarks or registered trademarks of Lenovo in the United States, other countries, or both.

Lenovo

Onekey

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

lenovo[®]

©Lenovo China 2013

en-US
Rev. AA00

■ ■ Lenovo regulatory notice for wireless adapters

This manual contains regulatory information for the following Lenovo products.

- Lenovo Yoga 2 11

The following wireless modules are supported on Lenovo Yoga 2 11:

- BCM943142HM
- QCWB335
- 7260HMW

■ Read first — regulatory information

Please read this document before you use the Lenovo computer. Lenovo computer complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. You must install and use your computer in strict accordance with the instructions as described hereafter.

Veuillez lire ce document avant d'utiliser l'ordinateur Lenovo. L'ordinateur Lenovo est conforme aux normes de sécurité et de radiofréquence du pays ou de la région où son utilisation sans fil est agréée. Vous devez installer et utiliser votre ordinateur en respectant scrupuleusement les instructions décrites ci-après.

■ USA — Federal Communications Commission (FCC)

I. Factory preinstalled Wireless LAN + Bluetooth Combo module

- FCC ID: QDS-BRCM1063 (Model: BCM943142HM)
- FCC ID: PPD-QCWB335 (Model: QCWB335)
- FCC ID: PD97260HU (Model: 7260HMW)

Wireless LAN + Bluetooth Combo Mini PCI Express Cards marketed in the USA and Canada do not support nor function in the extended channels (12ch, 13ch).

i) The FCC RF Exposure compliance:

The radiated output power of the Wireless LAN + Bluetooth Combo Mini PCI Express Card authorized to use for the your Lenovo computer is far below the FCC radio frequency exposure limits. Nevertheless, it shall be used in such a manner that the potential for human contact during normal operation is minimized as follows:

Note: The transmission diversity function is implemented for this product. For WLAN cards (Model: BCM943142HM, QCWB335 and 7260HMW) using Main and Auxiliary antennas for transmission in the IEEE 802.11 b/g/n transmission mode, radio frequency energy is not emitted simultaneously from both Main and Auxiliary antennas. One of the antennas is selected automatically or manually (by users) to have good quality of radiocommunication (transmission diversity function). For WLAN cards BCM943142HM, QCWB335 and 7260HMW in the IEEE 802.11 b/g/n, or MIMO (Multiple In Multiple Out) transmission mode, the radio frequency energy is emitted from Main antenna.

ii) FCC ID of wireless module:

On the bottom side of your Lenovo computer, you will find an indicator label of the format "Contains Transmitter Module: FCC ID XXXX", where XXXX represents the FCC ID that corresponds to your preinstalled Wireless LAN + Bluetooth Combo module.

iii) Radio Frequency interference requirement:

Each device has been tested and found to comply with the limits for a Class B digital device pursuant to FCC Part 15 Subpart B. Refer to “Electronic emission notices” on page 5.

The models BCM94330UARTSDB underwent the certification process with each respective FCC ID number listed in “1. Factory preinstalled Wireless LAN + Bluetooth Combo module” on page 1.

II. Simultaneous use of RF transmitters

Please make sure of the following conditions on use of wireless features:

1. When you use any other RF option device, all wireless features in your Lenovo computer are required to be turned off.
2. Users must follow the RF Safety instructions on wireless option devices that are included in the RF option device's user's manual.

■ Canada — Industry Canada (IC)

IC Certification number

I) Factory preinstalled Wireless LAN + Bluetooth Combo modules:

- IC: 4324A-BRCM1063 (Model: BCM943142HM)
- IC: 4104A-QCWB335 (Model: QCWB335)
- IC: 1000M-7260H (Model: 7260HMW)

Wireless LAN + Bluetooth Combo Mini PCI Express Cards marketed in the USA and Canada do not support nor function in the extended channels (12ch, 13ch).

There is no certification number of Industry Canada for Mini PCI Express Card shown on the enclosure of your Lenovo computer. Instead you will find an indicator label pointing to the location of the IC Certification number on the bottom side of your Lenovo computer. This label will be of the format "Contains Transmitter Module: Canada IC: XXXX", where XXXX represents the IC ID that corresponds to your preinstalled WLAN module.

II) Low power license-exempt radiocommunication devices (RSS-210):

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.

The transmitter devices have been designed to operate with the antennas integrated in Lenovo computer, and having a maximum gain of within 3 dBi.

III) Exposure of humans to RF fields (RSS-102):

Lenovo computers employ low gain integral antennas that do not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site at www.hc-sc.gc.ca/rpb

The radiated energy from the antennas connected to the wireless adapters conforms to the IC limit of the RF exposure requirement regarding IC RSS-102, Issue 2 clause 4.2.

Numéro d'homologation IC

I) Modules de réseaux local sans fil pré-installé à l'usine:

- IC: 4324A-BRCM1063 (Model: BCM943142HM)
- IC: 4104A-QCWB335 (Model: QCWB335)
- IC: 1000M-7260H (Model: 7260HMW)

Les cartes de réseau local sans fil Express mini-PCI commercialisées aux Etats-Unis et au Canada ne prennent pas en charge les canaux étendus (12ch, 13ch) et ne fonctionnent donc pas sur de tels canaux.

Le boîtier de votre ordinateur Lenovo ne comporte pas de numéro d'homologation IC (Industry Canada) pour la carte mini-PCI Express ; mais sous votre Lenovo, vous trouverez une étiquette indicatrice pointant vers l'emplacement du numéro d'homologation IC. L'étiquette se présente sous la forme "Contains Transmitter Module: Canada IC: XXXX" où XXXX représente l'ID IC qui correspond au module WLAN préinstallé.

II) Remarque relative aux appareils de communication radio de faible puissance sans licence (CNR-210):

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. Le fonctionnement de ce type d'appareil est soumis aux deux conditions suivantes:

1. Cet appareil ne doit pas perturber les communications radio, et
2. cet appareil doit supporter toute perturbation, y compris les perturbations qui pourraient provoquer son dysfonctionnement.

Les périphériques d'émission sont conçus pour fonctionner avec des antennes intégrées aux Lenovo et ayant un gain maximal de moins de 3 dBi.

III) Exposition des êtres humains aux champs radioélectriques (RF) (CNR-102):

L'ordinateur Lenovo utilise des antennes intégrales à faible gain qui n'émettent pas un champ électromagnétique supérieur aux normes imposées par le Ministère de la santé canadien pour la population. Consultez le Safety Code 6 sur le site Web du Ministère de la santé canadien à l'adresse "www.hc-sc.gc.ca/rpb".

L'énergie émise par les antennes reliées aux adaptateurs sans fil respecte la limite d'exposition aux radiofréquences telle que définie par Industrie Canada dans la clause 4.2 du document CNR-102.

Le gain d'antenne maximal autorisé pour les appareils dans les bandes de fréquence 5250-5350 MHz, 5470-5725 MHz et 5725-5825 MHz est conforme à la limite p.i.r.e (puissance isotrope rayonnée équivalente) définie dans la section A9.2 du CNR-210.

Lorsque vous utilisez une carte de réseau local sans fil dans le mode de transmission 802.11 a/n:

- Les appareils destinés à la bande 5150-5250 MHz devront être exclusivement utilisés en intérieur afin de réduire les risques de perturbations électromagnétiques gênantes sur les systèmes de satellite mobile dans un même canal.
- Les radars à forte puissance sont désignés comme les utilisateurs principaux (c'est-à-dire qu'ils sont prioritaires) des bandes 5250-5350 MHz et.

5650-5850 MHz. Ils peuvent provoquer des perturbations électromagnétiques sur les appareils de type LELAN (réseau de communication local sans licence) ou les endommager.

■ Electronic emission notices

Federal Communications Commission (FCC) Statement

- BCM943142HM
- QCWB335
- 7260HMW

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

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

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

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

Responsible Party:

Lenovo (United States) Incorporated
1009 Think Place - Building One
Morrisville, NC 27560
Telephone: 1-919-294-5900



Industry Canada Class B Emission Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For model: QCWB335

This device has been tested and meets the FCC RF exposure guidelines.
The maximum SAR value reported is 1.30w/kg.

For model: BCM943142HM

This device has been tested and meets the FCC RF exposure guidelines.
The maximum SAR value reported is 1.15w/kg.

For model: 7260HMW

This device has been tested and meets the FCC RF exposure guidelines.
The maximum SAR value reported is 1.15w/kg.