



FLEX 3/EDGE 2

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® 8.1. 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

- For details, refer to **Guides & Manuals** at <http://support.lenovo.com>.

First Edition (September 2014)

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Lenovo

FLEX 3/EDGE 2

User Guide

Instructions and technical information in this manual are applicable to the following Lenovo notebook computers unless otherwise stated.

Model name	MT
FLEX 3-1470	80JK
FLEX 3-1475	80JL
FLEX 3-1570	80JM
EDGE 2-1570	80JX
FLEX 3-1470 HSW	80JY
FLEX 3-1475 Carrizo	80K1
FLEX 3-1570 HSW	80K0
EDGE 2-1570 HSW	80K2

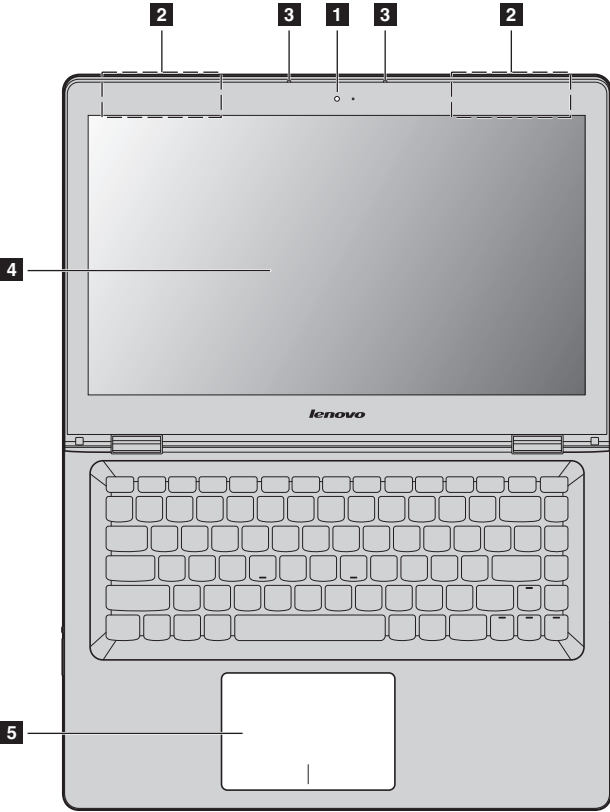
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Chapter 1. Getting to know your computer

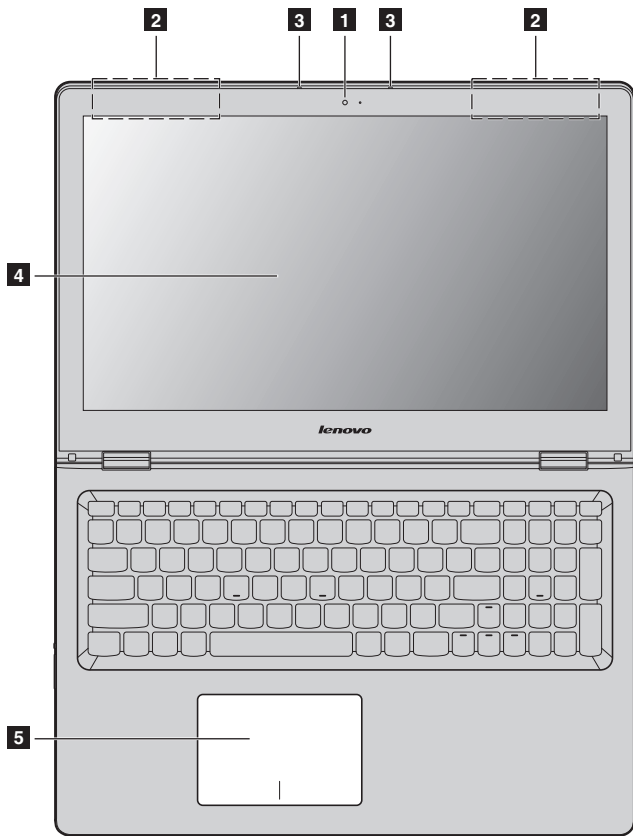
■ ■ Top view

■ FLEX 3-1470/FLEX 3-1475/FLEX 3-1470 HSW/FLEX 3-1475 Carrizo



Chapter 1. Getting to know your computer

■ FLEX 3-1570/EDGE 2-1570/FLEX 3-1570 HSW/EDGE 2-1570 HSW



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.

- | | |
|---|---|
| 1 Integrated camera
(on select models) | Use the camera for video communication. |
| 2 Wireless LAN antennas | Connect to a wireless LAN adapter to send and receive wireless radio signals. |
| 3 Built-in microphone | Captures sound which can be used for video conferencing, voice narration, or audio recording. |
| 4 Multi-touch screen | The LCD display with LED backlight provides brilliant visual output. Multi-touch function is available on this display. |
| 5 Touchpad | <p>The touchpad functions as a conventional mouse.</p> <p>Touchpad: To move the pointer on the screen, slide your fingertip over the pad in the direction in which you want the pointer to move.</p> <p>Touchpad buttons: The functions of the left/right side correspond to that of the left/right mouse button on a conventional mouse.</p> |

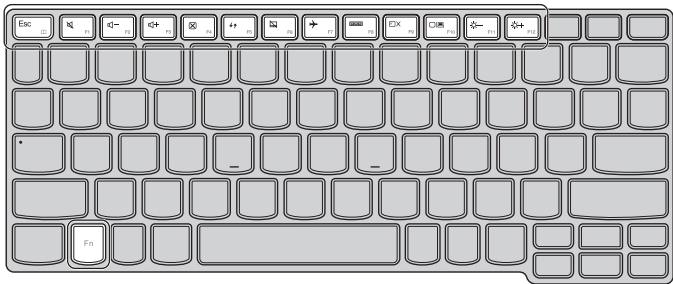
Note: You can enable/disable the touchpad by pressing **F6** ().

Chapter 1. Getting to know your computer

■ Using the keyboard

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 touchpad.		: Increases the display brightness.

■ Positioning the display panel

The display panel can be opened to any angle up to 300 degrees.

Notebook Mode



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

Stand Mode (Theater Mode)



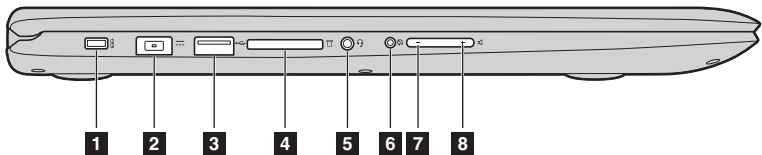
Suitable for tasks that require little or no touch (such as viewing photos or playing videos).

⦿ **Attention:**

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

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

■ ■ Left-side view



- 1

Kensington lock slot

Attach a security lock (not supplied) here to help protect your computer from theft and unauthorized use. 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.

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 judgment or warranty regarding the function, quality or performance of locking devices and security features.

- 2

AC power adapter jack

Connects to the AC power adapter.
- 3

USB port

Connects to USB devices.

Note: For details, see “Connecting USB device” on page 7.

- 4

Memory card slot

Insert memory cards (not supplied) here.

Note: For details, see “Using memory cards (not supplied)” on page 7.

- 5

Combo audio jack

Connects to headsets.

Notes:

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

- 6

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.

Note: The screen rotation lock button will be disabled in notebook mode.

- 7

Volume down button

Decreases the volume level.
- 8

Volume up button

Increases the volume level.

■ Connecting USB device

Your computer comes with 3 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.

■ Using memory cards (not supplied)

Your computer supports the following types of memory cards:

- Secure Digital (SD) card
- Secure Digital High Capacity (SDHC) card
- Secure Digital eXtended Capacity (SDXC) 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

Insert the memory card until it touches the bottom of the slot.

Removing a memory card

Gently pull the memory card out of the memory card slot.

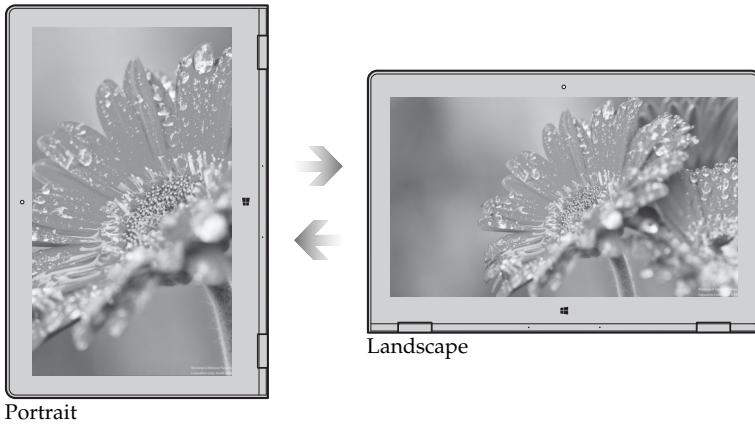
Note: Before removing the memory card, disable it by using the Windows safely remove hardware and eject media utility to avoid data corruption.

Chapter 1. Getting to know your computer

■ Screen orientation

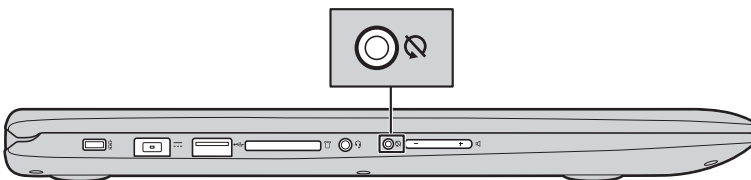
You can rotate the display panel to your preferred orientation.

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

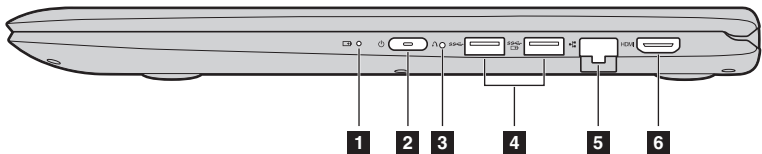


- To prevent automatic orientation, press the rotation lock button. It is located on the right edge of the computer (See illustration below).

Note: The screen rotation lock button will be disabled in notebook mode.



■ ■ Right-side view



1 Battery status indicator

2 Power button Press this button to turn on the computer.

Indicator	Indicator status	Meaning
Battery status indicator	On (solid white)	The battery has more than 20% charge.
	On (solid amber)	The battery has between 5% and 20% charge.
	Blinking quickly (amber)	The battery has less than 5% charge.
	Blinking slowly (amber)	The battery is being charged. When the battery charge reaches 20%, the blinking color will change to white.
	Blinking slowly (white)	The battery has between 20% and 80% charge and is still charging. When the battery reaches 80% charge the light will stop blinking, but charging will continue until the battery is fully charged.
Power status indicator	On (solid white)	The computer is powered on.
	Blinking	The computer is in sleep mode.
	Off	The computer is powered off.

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 USB port Connects to USB 3.0 devices.

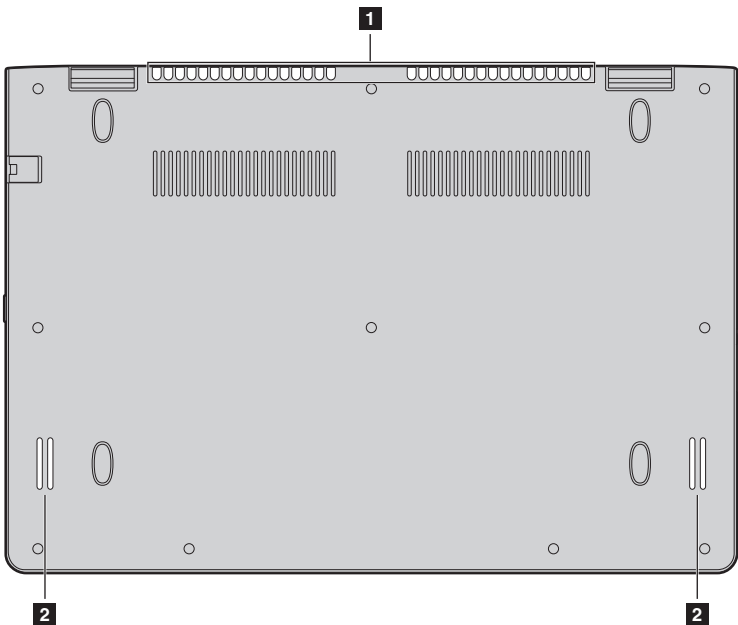
Note: For details, see “Connecting USB device” on page 7.

5 RJ-45 port Connects the computer to an Ethernet network.

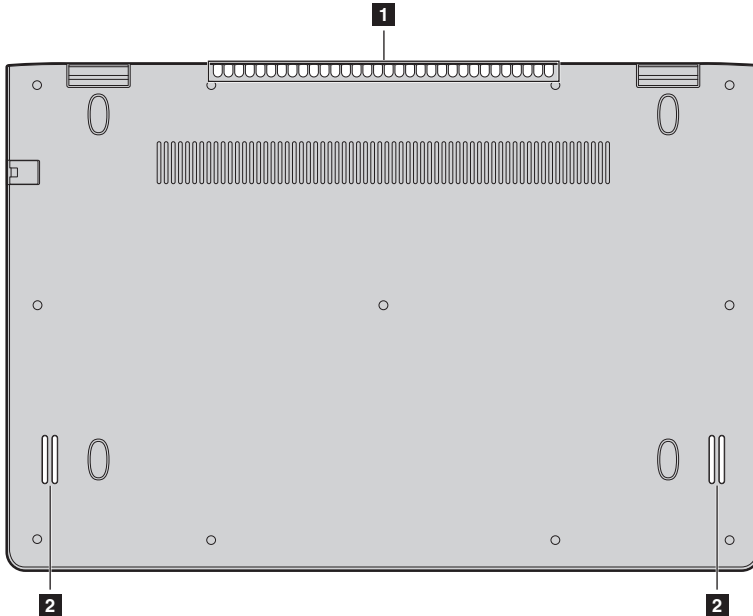
6 HDMI port Connects to devices with HDMI input such as a TV or an external display.

■ ■ **Bottom view**

- **FLEX 3-1470/FLEX 3-1475/FLEX 3-1470 HSW/FLEX 3-1475 Carrizo**



■ FLEX 3-1570/EDGE 2-1570/FLEX 3-1570 HSW/EDGE 2-1570 HSW



1 Ventilation slots Dissipate internal heat.

Note: Make sure that the ventilation slots are not blocked or else the computer may overheat.

2 Speakers Provide audio output.

Chapter 2. Starting to use Windows 8.1

■ ■ 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 8.1 comes with two main user interfaces: the Start screen and the Windows desktop. To switch from the Start screen to the Windows desktop, do one of the following:

- Select the Windows desktop tile on the Start screen.

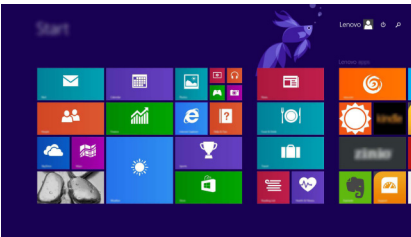
- Press the Windows button .

- Press the Windows key  + D.

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

- Select **Start**  from the charms bar.
- Move the cursor to the lower-left corner, and then select the **Start** button.

Start screen



Desktop



■ ■ The charms

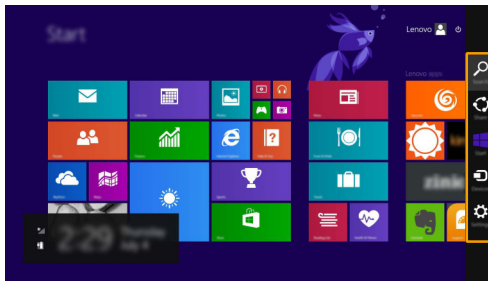
Charms are navigation buttons that let you control your Windows® 8.1 experience.

Charms include: Search, Share, Start, Devices, and Settings. The **Charms Bar** is the menu that contains the charms.

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

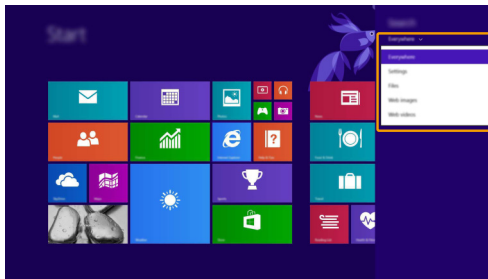
To display the charms, do one of the following:

- Move the cursor 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 what you are looking for, including settings, files, Web images, Web videos, etc.



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.

Chapter 2. Starting to use Windows 8.1

Start charm

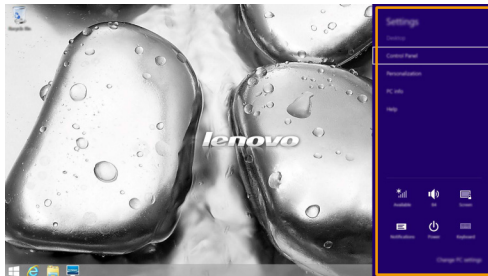
The **Start** charm is a fast way to go to the Start screen.

Devices charm

The **Devices** charm allows you to connect or send files to any external devices, including the devices to play, print, and project.

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 on 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 only 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 lid.
- Press the Power button.
- Open the charms, and then select **Settings**  → **Power**  → **Sleep**.

Note: Wait until the power indicator light starts blinking (indicating that the computer is in sleep mode) 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 any key on the keyboard. (Notebook mode only)
- Press the Power button.
- Press the Windows button .

■ Shutting down the computer

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

To shut down the computer, do one of the following:

- Open the charms, and then select **Settings**  → **Power**  → **Shut down**.
- Press and hold or right-click the **Start** button in the lower-left corner and select **Shut down or sign out** → **Shut down**.
- Select  → **Shut down** in the upper-right corner of the Start screen.

Note: The operation depends on the BIOS setup. Please refer to the actual product.

■ ■ 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 touchpad.

■ Multi-touch gestures

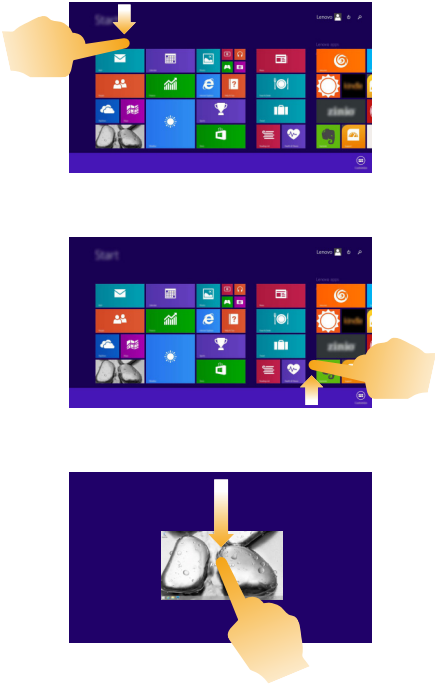
You can touch the screen with one or more fingertips to perform a variety of tasks.

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

(continued)

Frequently used gestures	Tasks performed
Zoom Move two fingers together or apart while touching the screen. 	Zooms in and out on visual apps, such as pictures and maps. Can also jump to the beginning or end of a list.
Rotate Place two or more fingers on an item and then turn your hand. 	Rotates an object (Note: Not all items can be rotated, depending upon the app.).
Slide Drag your finger across the screen. 	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.

(continued)

Frequently used gestures	Tasks performed
Swipe Start from any edge of the screen, then swipe inwards toward the center. 	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. If you have an app currently open, you can also: • 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 enables 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
	Swiping in from the left edge can: • Bring in and open an app currently running in the background.
	If there is more than one currently open app, you can: • 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. Swiping in from the right edge of the screen displays the charms.

■ ■ Connecting to a wireless network

Enabling wireless connection

To enable wireless functions, do one of the following:

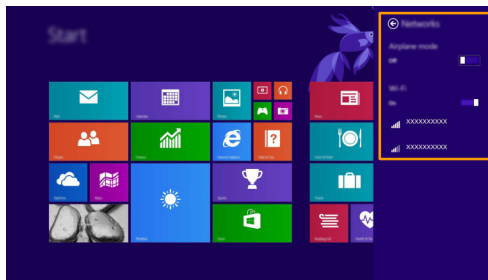
- Press **F7** () to disable airplane mode.
- Open the charms and select **Settings**  →  to open the network configuration page. Then toggle the airplane mode switch to **off**.

Note: Ensure the Wi-Fi switch on the Network configuration page is toggled to **On**.

Connecting to a wireless network

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

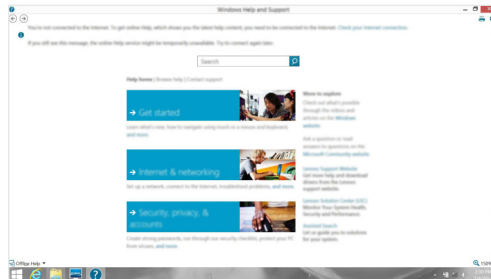
Note: Some networks require a network security key or passphrase for connection. To connect to one of those networks, ask the network administrator or the Internet service provider (ISP) for the security key or passphrase.



■ ■ Help and support

If you have a problem with the operating system, see the Windows Help and Support file. To open the Windows Help and Support file, do one of the following:

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



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

Note: Windows 8.1 also provides an app, **Help + Tips**. You can find it on the Start screen, to learn more information on new features of Windows 8.1.

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.

Notes:

- If your computer is preinstalled with a GNU/Linux operating system, OneKey Recovery System is not available.
- 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 **Novo Button Menu**, select **System Recovery** 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 the 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 *Safety, Warranty, and Setup Guide (SWSG)* 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 any recovery discs. Use the Lenovo OneKey Recovery System if you need to restore the system to its original 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.

Chapter 4. Troubleshooting

■ BIOS setup utility

What is the BIOS setup utility?

The BIOS setup utility is a 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:

- ❶ Shut down the computer.
- ❷ Press the Novo button and then select **BIOS Setup**.

How can I change the boot mode?

There are two boot modes: **UEFI** and **Legacy Support**. 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 operating system, such as Windows, Linux or Dos, etc (that is, any operating system before Windows 8) on your computer, you must change the boot mode to **Legacy Support**. The legacy operating system, such as Windows, Linux or Dos, etc 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

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 screen saver or power management may be enabled. Do one of the following to resume from sleep 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 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 self-test (POST).

- Make sure that:
 - The battery pack 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 pack is charged and the temperature is within range, have the computer serviced.

Chapter 4. Troubleshooting

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

- 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 the system still does not return from sleep mode, stops responding, or cannot be turned off, reset the computer. Unsaved data may be lost. To reset the computer, press and hold the Power button for eight seconds or more. If the computer is still 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 pack, 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.
 - Press **F9** () to confirm whether the backlight of the LCD screen has been turned off.
 - If the problem persists, follow the solution in the next problem "The screen is unreadable or distorted."

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.

- Is 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 speakers 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.

Battery pack 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.

Other problems

Your computer does not respond.

- To turn off your computer, press and hold the Power button for eight 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.

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Lenovo

Flex 3

Regulatory Notice

lenovo

■ ■ Lenovo regulatory notice for wireless adapters

This manual contains regulatory information for the following Lenovo products:

- Lenovo Flex 3-1470
- Lenovo Flex 3-1470 (HSW)
- Lenovo Flex 3-1435
- Lenovo Flex 3-1475
- Lenovo Flex 3-1570
- Lenovo Flex 3-1570 (HSW)
- Lenovo Flex 3-1535

The following wireless modules are supported on Lenovo Flex 3-1470/Flex 3-1570:

- 3160NGW
- BCM943162ZP
- BCM94352Z
- QCNFA34AC (QCNFA344, QCNFA345)
- QCNFA335

The following wireless modules are supported on Lenovo Flex 3-1470 (HSW)/Flex 3-1570 (HSW):

- 3160NGW
- BCM943162ZP
- QCNFA34AC (QCNFA345)
- QCNFA335

The following wireless modules are supported on Lenovo Flex 3-1435/Flex 3-1475:

- BCM943162ZP
- QCNFA34AC (QCNFA345)
- QCNFA335

The following wireless modules are supported on Lenovo Flex 3-1535:

- BCM943162ZP
- BCM94352Z
- QCNFA34AC (QCNFA344, QCNFA345)
- QCNFA335

■ 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: PD93160NGU (Model: 3160NGW)
- FCC ID: QDS-BRCM1075 (Model: BCM943162ZP)
- FCC ID: QDS-BRCM1076 (Model: BCM94352Z)
- FCC ID: PPD-QCNFA34AC (Model: QCNFA34AC)
- FCC ID: PPD-QCNFA335 (Model: QCNFA335)

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 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:

Caution: To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm (8 inches) must be maintained between the antennas connected to the wireless module and all persons. If the distance may not be maintained while the computer display is closed, you must set sleep as the power mode when closing the display.

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.

When you use a Wireless LAN + Bluetooth Combo module in the 802.11 a/n transmission mode:

- High power radars are allocated as primary users of the 5250 to 5350 MHz and 5650 to 5850 MHz bands. These radar stations can cause interference with and/or damage this device.

II. Simultaneous use of RF transmitters

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: 1000M-3160NG (Model: 3160NGW)
- IC: 4324A-BRCM1075 (Model: BCM943162ZP)
- IC: 4324A-BRCM1076 (Model: BCM94352Z)
- IC: 4104A-QCNFA34AC (Model: QCNFA34AC)
- IC: 4104A-QCNFA335 (Model: QCNFA335)

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):

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 4 clause 4.2.

The maximum antenna gain permitted for devices in the 5250-5350 MHz, 5470-5725 MHz, and 5725-5825 MHz bands complies with the e.i.r.p. limit in section A9.2 of RSS-210.

When you use a Wireless LAN and Bluetooth Combo module adapter in the 802.11 a/n transmission mode:

- The devices for the band 5150-5250 MHz are only for indoor usage to reduce potential for harmful interference to co-channel Mobile Satellite systems.
- High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz bands and these radars could cause interference and/or damage to LELAN (Licence-Exempt Local Area Network) devices.

Numéro d'homologation IC

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

- IC: 1000M-3160NG (Model: 3160NGW)
- IC: 4324A-BRCM1075 (Model: BCM943162ZP)
- IC: 4324A-BRCM1076 (Model: BCM94352Z)
- IC: 4104A-QCNFA34AC (Model: QCNFA34AC)
- IC: 4104A-QCNFA335 (Model: QCNFA335)

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 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.

■ Electronic emission notices

Federal Communications Commission (FCC) Statement

- Models: 3160NGW, BCM943162ZP, BCM94352Z, QCNFA34AC and QCNFA335

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:

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