

Lenovo Flex 2 Pro-15

User Guide



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 other Windows operating systems, 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 used in this manual are from Lenovo Flex 2 Pro-15 unless otherwise stated.
- 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.

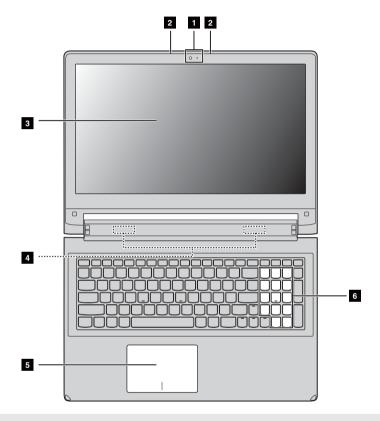
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Top view



Note: The dashed areas indicate parts that are invisible from outside.

Attention:

• Do *not* open the display panel beyond 300 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.

1	Integrated camera	Used for video communication or taking photos.		
2	Built-in microphone	Captures sound which can be used for video conferencing, voice narration, or audio recording.		
3	Display	Provides visual output.		
4	Wireless antennas	Connects to the wireless adapter to receive and send wireless radio signals.		
5	Touch pad The touch pad functions as a conventional n			
		Touch pad: To move the pointer on the screen, slide your fingertip on the pad in the direction you wish to move the cursor. Touch pad buttons: Perform the functions of the left and right buttons as those of the left and right buttons on a conventional mouse.		
	Note: You can enable or disable the Touch pad and the Touch pad buttons by pressing			
	□ _{F6} .			

Numeric keypad For details, see "Using the keyboard" on page 3.

Using the keyboard

Your computer has a numeric keypad, hotkeys, and function keys incorporated into its standard keyboard.

Numeric keypad

The keyboard has a separate numeric keypad. To enable or disable the numeric keypad, press the **Num Lock** key.



■ Hotkeys

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

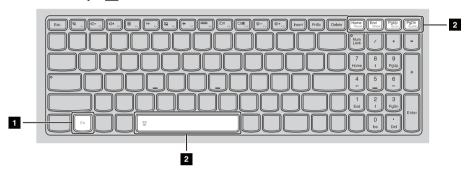


₩ _{F1}	Mutes/unmutes the sound.	+ _{F7} :	Enables/disables airplane mode.
[4]- F2	Decreases the volume level.	F8	Switches the active program.
₫+ F3	Increases the volume level.	PX F9	Turns on/off the backlight of the display.
⊠ _{F4}	Closes the currently active window.	F10	Projects to a connected display.
47 F5 ■	Refreshes the desktop or the currently active window.	‡ − F11	Decreases display brightness.
F6 :	Enables/disables the touch pad and the touch pad buttons.	#+ F12	Increases display brightness.

Note: If you changed the **Hotkey Mode** from **Enabled** to **Disabled** in the BIOS setup utility, you will need to press the Fn key in combination with the appropriate hotkey.

Function key combinations

Through the use of the function keys, you can change operational features instantly. To use this function, press and hold Fn 1; then press one of the function keys 2.



The following describes the features of each function key.

Fn + Home:	ne: Activate the pause function.		
Fn + End:	Activate the break function.		
Fn + PgUp:	Enable/Disable the scroll lock.		
Fn + PgDn:	Activate the system request.		
Fn + Space:	Turn on/off the keyboard backlight.		

Positioning the display panel

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)



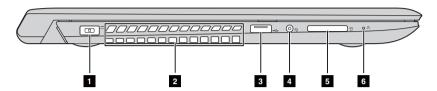
Suitable for tasks that require little or no touch (such as viewing photos or playing videos).

Attention:

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

Note: The keyboard and touch pad are automatically locked if the keyboard panel faces down.

■■ Left-side view



1 AC power adapter jack

Connects the AC power adapter.

Ventilation slots Dissipate internal heat.

Attention:

 Make sure that none of the ventilation slots are blocked or else overheating of the computer may occur.

3 USB 2.0 port

Connects to USB devices. For details, see "Connecting

USB devices" on page 8.

4 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.
- 5 Memory card slot

Insert memory cards (not supplied) here. For details, see "Using memory cards (not supplied)" on page 12.

6 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.

Note: For details, see "Chapter 3. Lenovo OneKey Recovery system" on page 26.

■ 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.



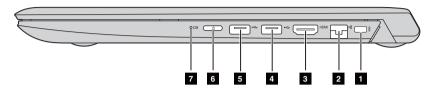
The first time you plug a USB device into a USB port on your computer, Windows automatically installs a driver for that device. After the driver is installed, you can disconnect and reconnect the device without performing any additional steps.

Note: Typically, Windows detects a newly connected 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 manufacturer of the device before connecting.

Before disconnecting a USB storage device, make sure your computer has finished transferring data by that device. Click the **Safely Remove Hardware and Eject Media** icon in the notification area of the Windows desktop screen 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.

■ Right-side view



Kensington 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.

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

HDMI port Connects to devices with HDMI input such as a TV or a

display.

USB 2.0 port Connect to USB devices. For details, see "Connecting USB

devices" on page 8.

USB 3.0 port Connect to USB devices. For details, see "Connecting USB

devices" on page 8.

Power button Press this button to turn on the computer.

Indicator	Indicator status	Charge Status	Meaning
Power status	On (solid white)	_	The computer is powered on.
indicator	Blinking	_	The computer is in sleep mode.
	Off	_	The computer is powered off.

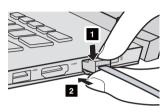
7 Battery status indicator

Indicator	Indicator status	Charge Status	Meaning
	On (solid white)	Discharging	The battery has more than 20% charge.
	Solid amber	Discharging	The battery has between 5% and 20% charge.
	Fast blinking amber	Charging/ Discharging	The battery has less than 5% charge.
Battery status indicator	Slow blinking amber	Charging	The battery is being charged. When battery charge reaches 20%, the blinking color changes to white.
	Slow blinking white	Charging	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.

Connecting network cables

To insert a network cable, do the following:

- 1 Hold the connector of the network cable and push the RJ-45 cover down in the direction by arrow 1.
- 2 Insert the connector into the RJ-45 port in the direction by arrow 2.



■ Software configuration

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

Using memory cards (not supplied)

Your computer supports the following types of memory card:

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

Attention:

- 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

Slide a memory card in until it clicks into place.

Note: If a dummy card is shipped with the computer, push the dummy card and then remove it before inserting a memory card.

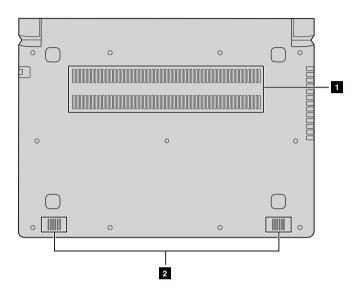
Removing a memory card

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

Attention:

 Before removing a memory card, disable it through Safely Remove Hardware and Eject Media to avoid data corruption.

Bottom view



- **Ventilation slots** Allow air to enter the computer for cooling.
- 2 Speakers Provide audio output.

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 key 🔳 + D.

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

- Select **Start** from the charms bar.
- Press the Windows key 🔳.
- 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.
- 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.

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** \longrightarrow **Power** \longrightarrow **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.

Note: If the computer does not awaken after pressing a key on the keyboard, this means that the computer has entered an enhanced power-saving mode.

• Press the power button.

■ 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, do one of the following:

• Open the charms bar and select **Settings** \longrightarrow **Power** \longrightarrow **Shut down**.

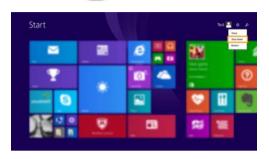




 Right-click the Start button in the lower-left corner and select Shut down or sign out → Shut down.



• On the Start screen, click 🚺 and select **Shut down**.



Note: This operation depends on your BIOS settings. 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 touch pad.

■ Multi-touch gestures

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

Frequently used gestures

Tap

Tap once on an item.



Tasks performed

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.



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.

(continued)

Tasks performed

Zoom

Move two fingers together or apart while touching the screen.

Frequently used gestures



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.



Turns 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

Swipe

Start from any edge of the screen, then swipe inwards toward the center.







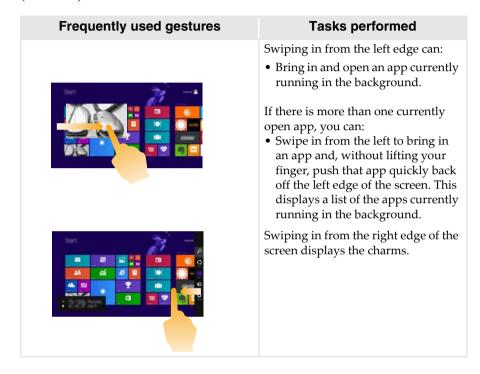
Tasks performed

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 New, Refresh, and other commands.

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 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)



Connecting to a wireless network

Enabling wireless connection

To enable wireless functions, do one of the following:

- Press 🔭 to disable airplane mode.
- Open the charms and select Settings → In to open the network configuration page. Then toggle the airplane mode switch to off.

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 **F1** or **Fn** + **F1** (depending on your keyboard layout). 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 an operating system other than Windows, 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 Enter **System Recovery**.
- 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 Enter **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.

Chapter 3. Lenovo OneKey Recovery system

If Windows cannot be started, 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 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 hardware specification for your computer from 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 preinstalled software, you can find the installation program on the C or D partition of your hard disk. If you cannot find the installation program there, download it from the Lenovo consumer support Web site.

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 the hardware devices that you need on the C or D partition of your hard disk. You can also download the latest device drivers from the Lenovo consumer support Web site.

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 communicates 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, do one of the following:

- Shut down the computer. Press the Novo button and then select **BIOS Setup**.
- Press **Fn** + **F2** at start-up.

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.

Chapter 4. Troubleshooting

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" of *Lenovo Safety and General Information Guide*.

Troubleshooting

Display problems

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

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

My screen goes blank while the computer is on.

The screen is unreadable or distorted.

- 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 you are using the AC power adapter or the battery, and the battery status indicator is on, press
 F12 (** _{res})) to make the screen brighter.
- If these items are properly set, and the screen remains blank, have the computer serviced.
- 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.
- 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 mode:
 - Touch the touch pad.
 - Press any key on the keyboard.
 - Press the power button.
 - Press **F9** () to confirm whether the backlight for the LCD screen has been turned off.
 - If the problem persists, follow the solution in the next problem "The screen is unreadable or distorted."
- Make sure that:
 - The display device driver is installed correctly.
 - The screen resolution and color quality are correctly set.
 - The monitor type is correct.

Chapter 4. Troubleshooting

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.

BIOS password problems

I forgot my password.

- If you forget your user password, you must ask the system administrator to reset your user password.
- 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 administrator 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 problems

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

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

- The battery power is getting low. Connect the AC power adapter to the computer, or replace the battery with a fully charged one.
- 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 your computer is in sleep mode, connect the AC adapter to the computer and then press any key 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 4 seconds or more.

Chapter 4. Troubleshooting

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 used.
 - The speaker is 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.

The computer does not operate with a fully charged battery.

Reset the battery gauge using Lenovo Energy
 Management. If the problem persists, replace with a
 new battery pack.

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.

 In the Boot menu in the BIOS setup utility, make sure that the hard disk drive is included in the EFI list.

Chapter 4. Troubleshooting

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 battery pack and 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.

I need to start the computer from a connected device, but the device does not appear on the boot device list. Check the boot mode setting in the BIOS setup utility. If Boot Mode is set to UEFI, make sure that the device or the medium in the device supports UEFI boot. If the device or the medium in the device does not support UEFI boot, set Boot Mode to Legacy Support. If the device still does not appear in the boot device list, replace with a new device or medium.

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 device such as an external USB optical disk drive, use an external device power adapter. Otherwise, the device may not be recognized, or system shut down may result.

Trademarks

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OneKey

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lenovo.

Lenovo Flex 2 Pro-15 Regulatory Notice



Lenovo regulatory notice for wireless adapters

This manual contains regulatory information for the following Lenovo products:

· Lenovo Flex 2 Pro-15

The following wireless modules are supported on Lenovo Flex 2 Pro-15:

- · 3160NGW
- QCNFA335
- RTL8723BE
- BCM943142Y
- BCM943162ZP
- 7265NGW

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 module

- FCC ID: PD93160NGU (Model: 3160NGW)
- FCC ID: PPD-QCNFA335 (Model: QCNFA335)
- FCC ID: TX2-RTL8723BE (Model: RTL8723BE)
- FCC ID: QDS-BRCM1079 (Model: BCM943142Y)
- FCC ID: ODS-BRCM1075 (Model: BCM943162ZP)
- FCC ID: PD97265NGU (Model: 7265NGW)

Wireless LAN 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 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:

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 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 4.

When you use a wireless LAN module in the 802.11 a/n transmission mode:

- Each device is restricted to indoor use due to its operation in the 5150 to 5250 MHz frequency range. FCC requires these products to be used indoors for the frequency range 5150 to 5250 MHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.
- 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:

- When you use any other RF option device, all wireless features in your Lenovo computer are required to be turned off.
- 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 modules:

• IC: 1000M-3160NG (Model: 3160NGW)

• IC: 4104A-QCNFA335 (Model: QCNFA335)

• IC: 6317A-RTL8723BE (Model: RTL8723BE)

• IC: 4324A-BRCM1079 (Model: BCM943142Y)

• IC: 4324A-BRCM1075 (Model: BCM943162ZP)

• IC: 1000M-7265NG (Model: 7265NGW)

Wireless LAN 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 2 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: harmful interference to co-channel Mobile Satellite systems.

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: 4104A-QCNFA335 (Model: QCNFA335)
- IC: 6317A-RTL8723BE (Model: RTL8723BE)
- IC: 4324A-BRCM1079 (Model: BCM943142Y)
- IC: 4324A-BRCM1075 (Model: BCM943162ZP)
- IC: 1000M-7265NG (Model: 7265NGW)

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
- 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 Ministére de la santé canadien pour la population. Consultez le Safety Code 6 sur le site Web du Ministére 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 autorisépour les appareils dans les bandes de fréquence 5250-5350 MHz, 5470-5725 MHz et 5725-5825 MHz est conforme àla limite p.i.r.e (puissance isotrope rayonnée équivalente) définie dans la section A9.2 du CNR-210.

Lorsque vous utilisez un adaptateur de module combiné Bluetooth et LAN sans fil dans le mode de transmission 802.11 a/n: intérieur afin de réduire les risques de perturbations électromagnétiques gênantes sur les systèmes de satellite mobile dans un même canal.

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) Declaration of Conformity

Model: QCNFA335
 Model: RTL8723BE
 Model: 3160NGW
 Model: BCM943142Y
 Model: BCM943162ZP
 Model: 7265NGW

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 agricument and receiver
- 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.

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