Lenovo ideapad 730S-13IWL

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.
- The latest *Safety and Warranty Guide*, *Setup Guide*, and *Regulatory Notice* are available on the Lenovo Support Web site at: https://support.lenovo.com.
- The latest electronic compliance information and environmental declarations are available from the Lenovo compliance information Web sites.
  - To view compliance information, go to: https://www.lenovo.com/compliance.
  - To download environmental information, go to: https://www.lenovo.com/ecodeclaration.
- Some instructions in this guide may assume that you are using Windows® 10. 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.
- Microsoft® makes periodic feature changes to the Windows operating system through Windows Update. As a result, some information in this guide may become outdated. Refer to Microsoft resources for the latest information.
- The illustrations in this manual may differ from the actual product. Please refer to the actual product.

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Chapter 1. Getting to know your computer

Top view

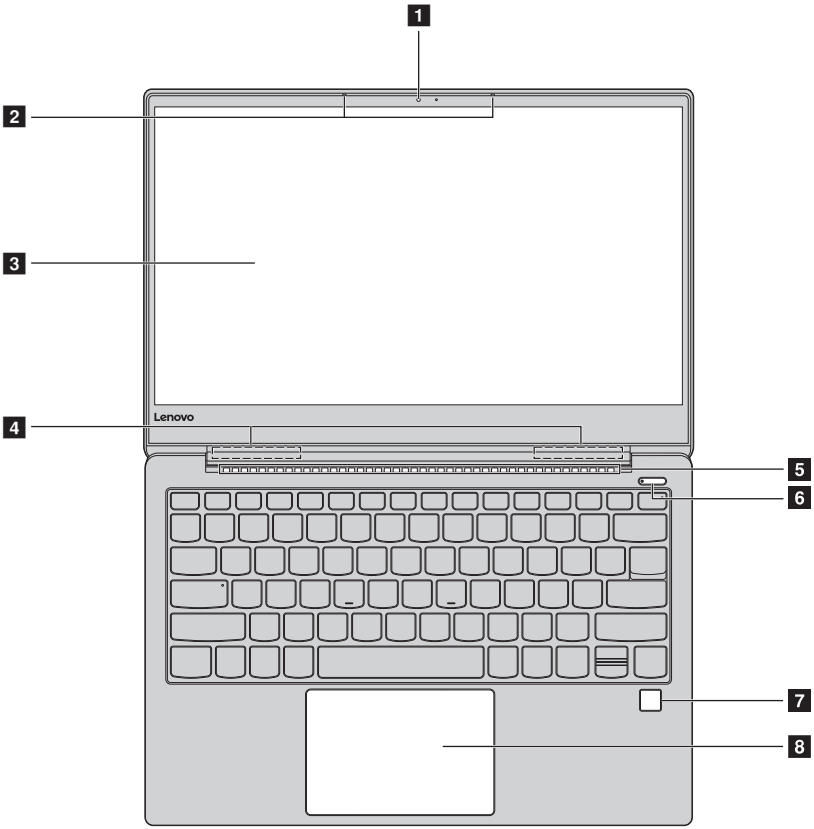

Figure 1. Top view - Lenovo ideapad 730S-13IWL

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

Attention:

- Do *not* open the display panel beyond 180 degrees. When closing the display panel, be careful *not* to leave pens or any other objects between the display panel and the keyboard. Otherwise, the display panel may be damaged.

1	**Integrated camera**	The integrated camera can be used for video conferencing.
2	**Built-in microphone**	Capture sound for video conferencing, voice narration, or audio recording.
3	**Computer display**	The LCD display with LED backlight provides brilliant visual output.
4	**Wireless LAN antennas**	The wireless antennas are connected with the built-in wireless adapter to send and receive wireless radio signals.
5	**Ventilation slots**	Dissipate internal heat.
6	**Power button**	Press this button to turn on the computer. When Windows is running, press the Power button to put the computer into sleep mode.
7	**Fingerprint reader**	Registers fingerprints that can be used as passwords to secure your computer.
8	**Touch pad and click buttons**	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. **Click buttons:** The functions of the Click buttons correspond to those of the left and right mouse buttons on a computer mouse.

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

Left-side view

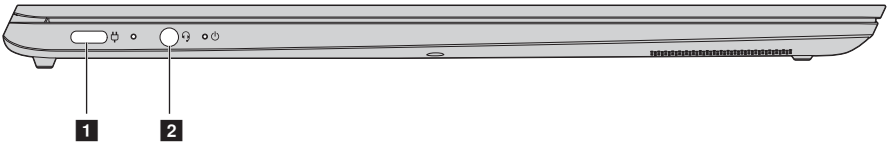

Figure 2. Left-side view - Lenovo ideapad 730S-13IWL

1	**ac power adapter jack/Type-C port**	This jack can be used as both ac power adapter jack and Type-C port, supporting USB 3.1.
2	**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.

Right-side view

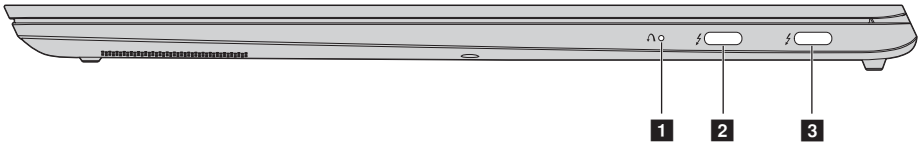

Figure 3. Right-side view - Lenovo ideapad 730S-13IWL

1	**Novo button**	When the computer is off, press this button to start the System Recovery or the BIOS setup utility, or to enter the boot menu.
2 / 3	**USB (Type-C) port**	The USB (Type-C) connectors support both the USB Type-C™ standard and Thunderbolt™ 3 technology. With a compatible USB-C cable, you can use this connector to transfer data, charge your device, or connect your computer to external displays. Both connectors are also compatible with DisplayPort® standard: this means you can connect a high-performance monitor, a directdrive monitor, or other devices that use a DisplayPort connector.

Note: Port 2 has the "Always On USB" feature, which allows you to charge your external devices even when your computer is turned off.

Bottom view

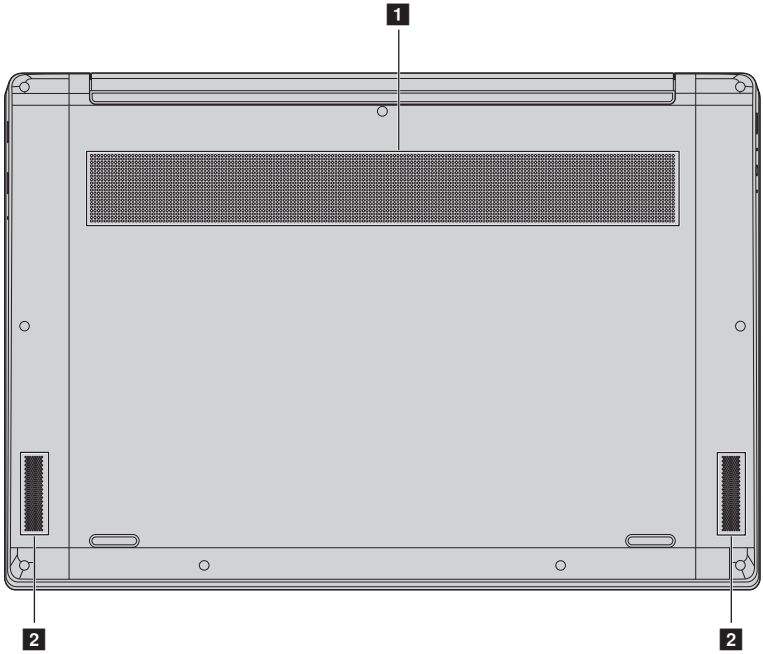

Figure 4. Bottom view - Lenovo ideapad 730S-13IWL

1 Ventilation slots Dissipate internal heat.

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

2 Speakers Provide audio output.

Status indicators

This section helps you locate and identify the various status indicators on your computer.

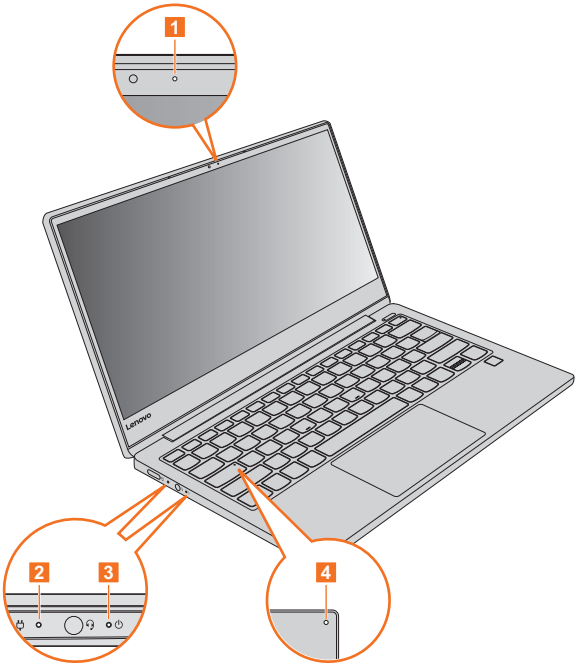

Figure 5. Indicators - Lenovo ideapad 730S-13IWL

1 Camera status indicator When this indicator is on, the camera is in use.

2 **Battery/Charging status indicator**

ac power adapter status	Indicator status	Meaning
Disconnected	Off	The battery is not charging.
Connected	Solid amber	The battery has between 1% and 90% charge and is still charging.
	Solid white	The battery has more than 90% charge, charging will continue until the battery is fully charged.

3 **Power status indicator**

Indicator	Indicator status	Meaning
Power status indicator	On (solid white)	The computer is powered on and the battery has between 21% and 100% charge.
	On (solid amber)	The computer is powered on and the battery has between 1% and 20% charge.
	Slow blinking amber	The computer is in sleep mode and the battery has between 1% and 20% charge.
	Slow blinking white	The computer is in sleep mode and the battery has between 21% and 100% charge.
	Off	The computer is powered off.

4 **Caps Lock indicator** When this indicator is on, you can type uppercase letters directly.

Chapter 2. Starting to use your computer

Microsoft resources for Windows

Microsoft provides a comprehensive set of information about Windows.

- The preinstalled **Tips** app provides new features and tips for Windows. You can start the **Tips** app by typing “Tips” in the search box of your Windows desktop and selecting the matching results.
- The preinstalled **Get Help** app provides support and assistance for using Windows. You can start the **Get Help** app by typing “Get Help” in the search box of your Windows desktop and selecting the matching result. You must be connected to the Internet to use the **Get Help** app.
- The Microsoft support Web site https://support.microsoft.com/ provides comprehensive helpful information about Windows.

Windows 10 desktop components

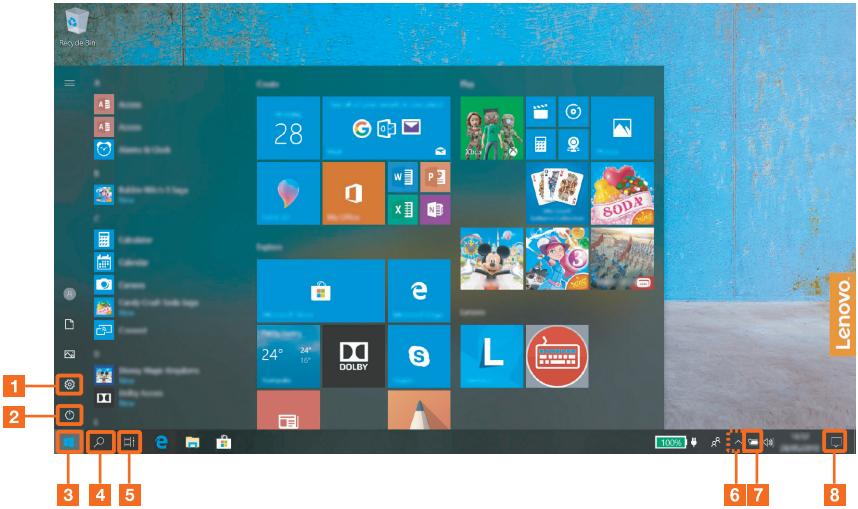

Figure 6. Windows 10 desktop

1 **Settings button**

2 **Power button**

3 **Start button**

4 **Search box**

5 **Task view button**

6 **Wireless status icon**

7 **Battery status icon**

8 **Action center**

Settings button

Settings lets you perform basic tasks. You can also search for more settings using the settings search box.

Battery status icon

You can move your pointer to this icon to check the battery status. The battery status icon displays the percentage of battery power remaining and how long you can use your computer before you must charge the battery.

Wireless status icon

This icon shows the status of your computer's wireless connection.

- Your computer is not connected to any wireless network.
- Your computer is connected to a wireless network.
- Airplane mode is on.

Action center

Here you can find important notifications from Windows and your apps. You can also change common settings quickly.

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

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 and hold the power button for 1 second.
- Move the cursor to the lower-left corner, and then select the Start button.
  Select **Power** ⏻ → **Sleep**.

Note: Put your computer to sleep before you move it. Moving your computer while the hard disk drive is spinning can damage the hard disk, causing loss of data.

To wake up the computer, do one of the following:

- Press any key on the keyboard.
- 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:

- Move the cursor to the lower-left corner, and then select the Start button.
  Select **Power** ⏻ → **Shut down**.
- Right-click the Start button in the lower-left corner and select **Shut down or sign out** → **Shut down**.

Connecting to a wireless network

Wireless connection is the transfer of data using radio waves instead of cables.

Connecting to a Wi-Fi network

Your computer comes with a built-in Wi-Fi network card to help you establish wireless connections and monitor connection status.

1. Click the wireless icon in the notification area.

Note: If the wireless icon is not displayed, airplane mode may be turned on.

2. Select the network name you want to connect to and click **Connect**.
3. Enter the security key when prompted and click **Next**.

Turning on/off airplane mode

- Press **F7** on the keyboard.
- Click **Start** → **Settings** → **Network & Internet** → **Airplane mode**. Slide the toggle for Airplane mode to turn it on or off.
- In action center, click the **Airplane mode** button to turn it on or off.

Using the keyboard

Hotkeys

Some keys on the keyboard are printed with symbols. These keys are called hotkeys and can be pressed alone to change certain settings quickly.

Note: Some hotkeys share keys with function keys (**F1** to **F12**). If Hotkey mode is set as disabled in the BIOS setup utility, you need to press the **Fn** key with these hotkeys to access certain settings.

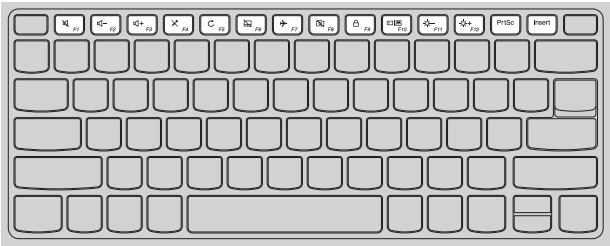

Figure 7. Hotkeys - Lenovo ideapad 730S-13IWL

Hotkey	Function
	Mutes/unmutes the sound.
−/+	Increases/decreases the volume level.
	Enables/disables built-in microphones.
	Refreshes page.
	Enables/disables the touch pad.
	Turns on/off airplane mode.
	Enables/disables the integrated camera.
	Locks/unlocks the LCD screen.
	Switches display devices.

Hotkey	Function
☼−/☼+	Increases/decreases display brightness.
PrtSc	Enables the print screen function.
Insert	Enables the insert function.
Fn + Space:	Adjusts the keyboard backlight. **Note:** The keyboard backlight can be customized in CUE (software).

Setting hotkey mode

The **Hotkey Mode** setting in the BIOS setup utility determines whether hotkeys takes precedence over function keys.

1. Shut down the computer.
2. Press the Novo button and then select **BIOS Setup**.
3. In the BIOS setup utility, open the **Configuration** menu, and change the setting of **Hotkey Mode** to **Enabled** or **Disabled**.
4. Open the **Exit** menu, and select **Exit Saving Changes**.

Hidden keys

Some character keys on your keyboard can be used with the **Fn** key to enable certain settings. These keys are called hidden keys.

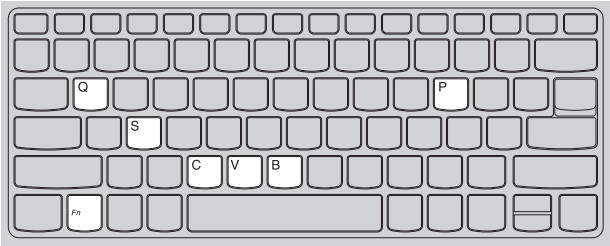

Figure 8. Hidden keys - Lenovo ideapad 730S-13IWL

Fn + B:	Activates the break function.
Fn + P:	Activates the pause function.
Fn + S:	Activates the system request.
Fn + Q:	Activates the Quiet Mode.

Chapter 3. Recovering or restoring Windows

This chapter provides information about the recovery options for Windows 10.

You may need to recover or restore Windows if you encounter the following situations:

- Your computer cannot start properly.
- Your computer does not work well after installing apps, drivers, or updates.

Windows 10 provides several options for you to recover or restore Windows. The following table helps you decide which option to use if you're having problems with your computer.

Problem	Available options
Your computer isn't working well after installing apps, drivers, or updates.	Restore from a system restore point.
Your computer isn't working well and you don't know what is causing the problem.	Reset your computer.
Windows cannot start properly.	Use a recovery drive to recover or restore your computer.
You want to recycle or donate your computer.	Reset your computer.

Restoring from a system restore point

1. In the search box of your Windows desktop, search for Recovery and then select it.
2. Select **Open System Restore** → **Next**.
3. Select a restore point and then select **Next** → **Finish**.

Note: You may select **Scan for affected programs** to check which program and driver installation is associated with a particular restore point.

Windows System Restore

System Restore is a tool included in Windows. It monitors changes to Windows system files and saves system state as a restore point. If your computer does not work properly after installing apps, drivers, or updates, you can revert your system to a previous restore point.

Note: Reverting your system to a previous restore point does not affect your personal data.

System Restore creates restore points in three cases:

- automatically when it detects changes to Windows system files
- at regular intervals (if set up by the user)
- at any time by the user

Creating a system restore point manually

You can use Windows System Restore to create a restore point at any time.

1. In the search box of your Windows desktop, search for **Create a restore point** and then select it.
2. Select the **System Protection** tab and then select **Create**.

Resetting your computer

If your computer isn't working well and you're not sure why, you can reset your computer.

❶ To reset your computer:

- When the computer is off, press the **Novo** button to open the Novo Menu; select **System Recovery** → **Troubleshoot** → **Reset this PC**.
- In Windows, go to **Settings** → **Update & security** → **Recovery**; under **Reset this PC**, select **Get Started**.

❷ Choose an option.

- If you want to keep your personal files, select **Keep my files**.
- Otherwise, select **Remove everything**.

Note: If you're planning to donate, recycle, or sell your PC, use this option and choose to fully clean the drive. This might take an hour or two, but it makes it harder for other people to recover files you've removed.

Using a recovery drive to restore or recover Windows

If Windows cannot start properly, you can use a recovery drive (created in advance) to restore or recover Windows.

1. Connect the recovery drive to your computer; restart your computer and set it up to start from the recovery drive.
2. On the **Choose an option** screen, select **Troubleshoot**.
3. Choose a recovery option.
   - Select **Advanced Options** → **System Restore** to restore your computer to a system restore point.
   - Select **Recover from a drive**.

Note: If you did not select the **Back up system files to the recovery drive** option when creating the recovery drive, **Recovery from a drive** is not available.

Attention:

- All personal files created on your computer will be deleted after recovering from the drive.

Creating a recovery drive

Use a USB drive (not included) to create a recovery drive. You can use it to fix problems with your computer in cases when Windows cannot start properly.

1. In the search box of your Windows 10, search for Create a recovery drive and then select it.
2. Make sure **Back up system files to the recovery drive** is selected and then select **Next**.
3. Connect a USB drive to your computer, select it and then select **Next** → **Create**.

Attention:

- If there are personal files on the USB drive, back up all personal files before using it to create a recovery drive.

Important:

- When your recovery drive is created, you might see a **Delete the recovery partition from your PC** option. If you want to free up drive space on your computer, select it and then select **Delete**. Otherwise, select **Finish**.

Chapter 4. Troubleshooting

Display problems

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

Make sure that:
- The ac power adapter is connected to the computer and plugged into a working electrical outlet.
- The computer power is on. (Press the power button again for confirmation.)
- The brightness level of the screen is appropriately set.

If these items are correctly set, yet the screen remains blank, have the computer serviced.

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

- Turn off the computer, and then turn it on again.
- If the problem persists, restore backed-up files to your Windows environment or the entire contents of your hard disk to its original factory contents using the Windows 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.
- Press the power button.

The screen is blank.

Do the following:
- If you are using the ac power adapter or the battery pack, and the battery status indicator shows that the battery is not depleted, press **F12** to make the screen brighter.
- If the system status 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.”

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.

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.

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

- If your computer is in sleep mode, connect the ac power adapter to the computer and then press the power button.
- If the system still does not resume 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.

Battery pack problems

Battery status icon shows status incorrectly.

Your computer shuts down before the battery status icon shows empty, or your computer continues operating after the battery status icon shows empty.

- Recharge the battery.

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 connector is not being used.
- The speakers are selected as the playback device.

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.
  - To disable the sleep timer, click **Start** → **Settings** → **System** → **Power & sleep**; under Sleep, select **Never** in the pull down menu.

A 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, and the system may shut down as a result.

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Regulatory Notice for Wireless LAN modules

First edition (January 2018)

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About this manual

This publication contains regulatory information for wireless modules that may be included by Lenovo computers. Different wireless modules are supported by different computer products. The table below lists product names for Lenovo computers in rows. All supported wireless modules by a product are marked with a circle.

Product Name	**Wireless modules**										
	QCNFA 344A	QCNFA 435	QCNFA 364	7265 NGW	8265 NGW	3165 NGW	RTL 8821CE	RTL 8822BE	9260 NGW	9560 NGW	9462 NGW
Lenovo 500e Chromebook				○							
Lenovo 100e				○							
Yoga 530-14IKB		○			○	○	○	○			
Yoga 530-15IKB		○			○	○	○	○			
ideapad 330-15ICH		○				○	○			○	
ideapad 330-17ICH		○				○	○			○	
Legion Y530-15ICH		○				○	○	○		○	
ideapad FLEX 6-14IKB		○			○	○	○	○			
ideapad FLEX 6-14ARR		○					○	○			
Lenovo V330-14ARR		○					○				
ideapad 530s-14IKB		○			○	○	○	○			
ideapad 530s-15IKB		○			○	○	○	○			
Lenovo V130-15IKB		○			○	○	○	○			
Lenovo V130-15IGM		○				○	○				
Lenovo V130-14IGM		○				○	○				
ideapad 330S-15IKB GTX1050		○				○	○				

ideapad 530s-14ARR		○									
ideapad 330-14IGM		○				○	○				
ideapad 330-15IGM		○				○	○				
ideapad 330-15ICN		○				○	○				
ideapad 330-15ARR		○					○				
ideapadd 330-15ARR Touch		○					○				
Lenovo B330-15IGM		○				○	○				
Lenovo S130-11IGM		○				○	○				○
Lenovo S130-14IGM		○				○	○				○
Lenovo 130S-11IGM		○				○	○				○
Lenovo 130S-14IGM		○				○	○				○
Yoga 530-14ARR		○					○	○			
Lenovo B330-15IKBR		○				○	○				
Yoga C930-13IKB	○								○		
Yoga C930-13IKB Glass	○								○		
Legion Y7000P		○				○	○	○		○	
Yoga S730-13IWL		○				○	○	○	○	○	○
ideapad 730S-13IWL		○				○	○	○	○	○	○
Legion Y730-15ICH	○							○		○	
Legion Y730-15ICHg								○		○	

Legion Y730-17ICH	○							○		○	
Legion Y730-17ICHg								○		○	
Yoga 730-13IWL								○	○		
Yoga 730-15IWL								○	○		

Chapter 1. Notice for users in USA and Canada

Read this document before using your computer. This computer complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. Install and use your computer according to the following instructions.

The latest Regulatory Notice manual is available on the Lenovo Web site. To download the manual, go to http://www.lenovo.com/support and then follow the on-screen instructions.

Lisez ce document avant d'utiliser votre ordinateur. Cet ordinateur est conforme aux normes de fréquence radioélectrique et de sécurité du pays ou de la région où son utilisation sans fil est autorisée. Installez et utilisez votre ordinateur en vous conformant aux instructions ci-dessous.

La dernière version du manuel Regulatory Notice est disponible sur le site Web de Lenovo. Pour télécharger le document, rendez-vous sur http://www.lenovo.com/support et suivez les instructions à l'écran.

Approved wireless devices

This system contains the following wireless devices and underwent the certification process of FCC CFR 47 Part 2 section 1093, Part 15 Subpart C and Subpart E, Part 27, Part 22 Subpart H, Part 24 Subpart E, and Part 90 under each respective FCC ID below. The FCC ID is indicated on the bottom cover of your system.

Preinstalled wireless LAN modules with Bluetooth function

- FCC ID: PD97265NGU (Model: 7265NGW)
- FCC ID: PD93165NGU (Model: 3165NGW)
- FCC ID: PD98265NG (Model: 8265NGW)
- FCC ID: PPD-QCNFA435 (Model: QCNFA435)
- FCC ID: PPD-QCNFA364AH (Model: QCNFA364)
- FCC ID: PPD-QCNFA344AH (Model: QCNFA344A)
- FCC ID: TX2-RTL8821CE (Model: RTL8821CE)
- FCC ID: TX2-RTL8822BE (Model: RTL8822BE)
- FCC ID: PD99260NG (Model: 9260NGW)
- FCC ID: PD99560NG (Model: 9560NGW)
- FCC ID: PD99462NG (Model: 9462NGW)

Notes:

- The wireless LAN, the Bluetooth, and the WiGig features operate at different frequencies exclusively, and transmit radio frequencies simultaneously.
- The following wireless LAN modules marketed in the USA and Canada do not support or function in the extended channels (12ch, 13ch):
  - Model: QCNFA344A
  - Model: QCNFA435
  - Model: QCNFA364
  - Model: RTL8821CE
  - Model: RTL8822BE

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Preinstalled wireless LAN module

The wireless LAN module in your computer is preinstalled by Lenovo®, and you are prohibited to replace with other wireless adapter or remove it. If the device requires replacement due to some problem during warranty, it must be serviced by a Lenovo authorized servicer.

1. **FCC ID location**

   The FCC ID for the preinstalled wireless LAN module is shown on the enclosure of your computer. For the location of the FCC ID indicator and the slot, see “FCC ID and IC Certification number label” in *User Guide*.

2. **FCC RF exposure compliance**

   The radiated output power of the wireless LAN module authorized to use for your 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:
   The total radiated energy from the antennas connected to the installed wireless LAN module, conforms to the FCC limit of the SAR (Specific Absorption Rate) requirement, regarding 47 CFR Part 2 section 1093, when the computer was tested in either conventional notebook or tablet computer orientations.

   The transmission antennas for the wireless LAN module are located in the LCD cover. See “Locating the UltraConnect™ wireless antennas” in *User Guide*.

3. **Radio Frequency interference requirements**

   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 6.

   When you use a wireless LAN module in the 802.11 a/n transmission mode, note that 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.

Simultaneous use of RF transmitters

Your computer is approved for simultaneous use of one of the approved wireless LAN modules, the approved wireless WAN module, and the approved NFC module.

Make sure of the following conditions when you use any other external RF option device:

- When you use any other RF option device, you are requested to confirm that the device conforms to the RF Safety requirement and is approved to use for your computer.
- You must follow the RF Safety instructions of the RF option device that are included in the user manual of the RF option device.
- If the RF option device is prohibited to use in conjunction with another transmitters, you must turn off all other wireless features in your computer.

Canada — Industry Canada (IC)

Approved wireless devices

This system contains the following wireless devices and the IC certification number is as below. The IC certification number is indicated on the bottom cover of your system.

Preinstalled wireless LAN modules with Bluetooth function

- IC: 1000M-7265NG (Model: 7265NGW)
- IC: 1000M-3165NG (Model: 3165NGW)
- IC: 1000M-8265NG (Model: 8265NGW)
- IC: 4104A-QCNFA435 (Model: QCNFA435)
- IC: 4104A-QCNFA364A (Model: QCNFA364)
- IC: 4104A-QCNFA344A (Model: QCNFA344A)
- IC: 6317A-RTL8821CE (Model: RTL8821CE)
- IC: 6317A-RTL8822BE (Model: RTL8822BE)
- IC: 1000M-9260NG (Model: 9260NGW)
- IC: 1000M-9560NG (Model: 9560NGW)
- IC: 1000M-9462NG (Model: 9462NGW)

Notes:

- The wireless LAN, the Bluetooth, and the WiGig features operate at different frequencies exclusively, and transmit radio frequencies simultaneously.
- The following wireless LAN modules marketed in the USA and Canada do not support or function in the extended channels (12ch, 13ch):
  - Model: QCNFA344A
  - Model: QCNFA435
  - Model: QCNFA364
  - Model: RTL8821CE
  - Model: RTL8822BE

Preinstalled wireless LAN module

The IC Certification number for the wireless LAN module is shown on the enclosure of your computer. For the location of the IC Certification number, see “FCC ID and IC Certification information” in *User Guide* .

Attention: The wireless LAN module in your computer is preinstalled by Lenovo, and you are prohibited to replace with other wireless adapter nor remove it. If the device requires replacement due to some problem during warranty, it must be serviced by a Lenovo authorized servicer.

Low power license-exempt radiocommunication devices (RSS-210, RSS-247)

Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

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

- The devices for the band 5150–5350 MHz are only for indoor usage to reduce potential for harmful interference to co-channel Mobile Satellite systems
- The devices for the band 5150–5350 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 and these radars could cause interference and/or damage to LE-LAN (Licence-Exempt Local Area Network) devices.
- 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.

Exposure of humans to RF fields (RSS-102)

The 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 http://www.hc-sc.gc.ca/.

The radiated energy from the antennas connected to the wireless modules conforms to the Canada Portable RF exposure limit regarding IC RSS-102, Issue 5, Section 4, set forth for an uncontrolled environment, and are safe for intended operation in the conventional setting. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Canada — Industrie Canada (IC)

Périphériques sans fil homologués

Ce système contient les périphériques sans fil suivants et le numéro d'homologation IC indiqué ci-dessous. Le numéro d'homologation IC figure sur la partie inférieure de votre système.

Modules de réseau local sans fil avec fonction Bluetooth préinstallés

- IC: 1000M-7265NG (modèle: 7265NGW)
- IC: 1000M-3165NG (modèle: 3165NGW)
- IC: 1000M-8265NG (modèle: 8265NGW)
- IC: 4104A-QCNFA435 (modèle: QCNFA435)
- IC: 4104A-QCNFA364A (modèle: QCNFA364)
- IC: 4104A-QCNFA344A (modèle: QCNFA344A)
- IC: 6317A-RTL8821CE (modèle: RTL8821CE)
- IC: 6317A-RTL8822BE (modèle: RTL8822BE)
- IC: 1000M-9260NG (modèle: 9260NGW)
- IC: 1000M-9560NG (modèle: 9560NGW)
- IC: 1000M-9462NG (modèle: 9462NGW)

Notes:

- Les fonctions de réseau local sans fil, Bluetooth et WiGig sont opérationnelles à des fréquences différentes exclusivement et émettent des fréquences radio simultanément.
- Les modules de réseau local sans fil suivants commercialisés aux États-Unis et au Canada ne prennent pas en charge les canaux étendus (12ch, 13ch):
  - Modèle: QCNFA344A
  - Modèle: QCNFA435
  - Modèle: QCNFA435
  - Modèle: QCNFA364

- Modèle: RTL8821CE
- Modèle: RTL8822BE

Module réseau local sans fil préinstallé

Le numéro de certification IC correspondant au module de réseau local sans fil figure sur le boîtier de votre ordinateur. Pour connaître l'emplacement du numéro de certification IC, reportez-vous à la section Informations sur l'identification FCC et la certification IC du . *guide d'utilisation* .

Attention: Le module réseau local sans fil est préinstallé sur votre ordinateur par Lenovo et il est interdit au client de le remplacer par un autre adaptateur sans fil ou de le supprimer. Si le périphérique doit être remplacé à cause d'un problème survenu pendant la période de garantie, l'opération doit être effectuée par un technicien agréé Lenovo.

Appareils de radio-communication basse tension sans licence d'utilisation (CNR-210, CNR-247)

Le fonctionnement de ce type d'appareil est soumis aux deux conditions suivantes:

1. Cet appareil ne peut pas causer de perturbations électromagnétiques.
2. Cet appareil doit accepter toutes les perturbations reçues, y compris celles susceptibles d'occasionner un fonctionnement indésirable.

Lorsque vous utilisez un module de réseau local sans fil dans le mode de transmission 802.11 a/n, tenez compte des remarques suivantes:

- Les appareils destinés à la bande 5150–5350 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. otential for harmful interference to co-channel Mobile Satellite systems
- 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 LE-LAN (réseau de communication local sans licence) ou les endommager.
- 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).

Conformité des appareils de radiocommunication aux limites d'exposition humaine aux radiofréquences (CNR-102)

Lesordinateursutilisentdesantennesintégralesàfaiblegainquin'émettentpasunchampélectromagnétique supérieur aux normes imposées par Santé Canada pour la population. Consultez le Code de sécurité 6 sur le site Web de Santé Canada à l'adresse http://www.hc-sc.gc.ca/.

L'énergie émise par les antennes reliées aux modules sans fil respecte la limite d'exposition aux radiofréquences émises par les appareils portables au Canada telle que définie par Industrie Canada dans la section 4 du document CNR-102, version 5 pour un environnement non contrôlé et permet d'affecter sans danger le produit à l'usage auquel il est destiné. La réduction de l'exposition aux radiofréquences est possible si le produit peut être conservé aussi loin que possible du corps de l'utilisateur ou en définissant une puissance de sortie plus faible si une telle fonction est disponible.

Electronic emission notices

Federal Communications Commission (FCC) Declaration of Conformity

Models: QCNFA344A, QCNFA435, QCNFA364, 7265NGW, 8265NGW, 3165NGW, RTL8821CE, RTL8822BE, 9260NGW, 9560NGW, 9462NGW

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

Usage environment and your health

The wireless device installed in the computer operates within the guidelines identified by radio frequency (RF) safety standards and recommendations; therefore, Lenovo believes this product is safe for use by consumers. These standards and recommendations reflect the consensus of the worldwide scientific community, and result from deliberations of panels and committees of scientists, who continually review and interpret the extensive research literature.

In some situations or environments, the use of wireless devices might be restricted by the proprietor of a building or responsible representatives of an organization. For example, these situations and areas might include the following:

- On board of airplanes, in hospitals, or near petrol stations, blasting areas (with electro-explosive devices), medical implants, or body-worn electronic medical devices, such as pace makers.

- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific area (such as an airport or hospital), you are encouraged to ask for authorization to use a wireless device prior to turning on the computer.