

LenovoTM

User Guide



Lenovo Miix 630-12Q35



User Guide

Lenovo Miix 630–12Q35

First edition (March 2018)

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Chapter 1. Important safety information

Read this first

This information can help you safely use your personal computer. Follow and retain all information included with your computer. The information in this document does not alter the terms of your purchase agreement or the *Lenovo Limited Warranty*.

Customer safety is important. Our products are developed to be safe and effective. However, personal computers are electronic devices. Power cords, power adapters, and other features can create potential safety risks that can result in physical injury or property damage, especially if misused. To reduce these risks, follow the instructions included with your product, observe all warnings on the product and in the operating instructions, and review the information included in this document carefully. By carefully following the information contained in this document and provided with your product, you can help protect yourself from hazards and create a safer computer work environment.

Note: This information includes references to power adapters and batteries. In addition to notebook computers, some products (such as speakers and monitors) ship with external power adapters. If you have such a product, this information applies to your product. In addition, computer products contain a coin-sized internal battery that provides power to the system clock even when the computer is unplugged, so the battery safety information applies to all computer products.

Conditions that require immediate action

Products can become damaged due to misuse or neglect. Some product damage is serious enough that the product should not be used again until it has been inspected and, if necessary, repaired by an authorized servicer.

As with any electronic device, pay close attention to the product when it is turned on. On very rare occasions, you might notice an odor or see a puff of smoke or sparks vent from your product. Or you might hear sounds like popping, cracking, or hissing. These conditions might merely mean that an internal electronic component has failed in a safe and controlled manner. Or, they might indicate a potential safety issue. However, do not take risks or attempt to diagnose the situation yourself. Contact the Customer Support Center for further guidance. For a list of Service and Support phone numbers, go to <http://www.lenovo.com/support/phone>.

Frequently inspect your computer and its components for damage or wear or signs of danger. If you have any question about the condition of a component, do not use the product. Contact the Customer Support Center or the product manufacturer for instructions on how to inspect the product and have it repaired, if necessary.

In the unlikely event that you notice any of the following conditions, or if you have any safety concerns with your product, stop using the product and unplug it from the power source and telecommunication lines until you can speak to the Customer Support Center for further guidance.

- Power cords, plugs, power adapters, extension cords, surge protectors, or power supplies that are cracked, broken, or damaged.
- Signs of overheating, smoke, sparks, or fire.
- Damage to a battery (such as cracks, dents, or creases), discharge from a battery, or a buildup of foreign substances on the battery.
- A cracking, hissing, or popping sound, or strong odor that comes from the product.

- Signs that liquid has been spilled or an object has fallen onto the computer product, the power cord, or power adapter.
- The computer product, power cord, or power adapter has been exposed to water.
- The product has been dropped or damaged in any way.
- The product does not operate normally when you follow the operating instructions.

Note: If you notice these conditions with a product (such as an extension cord) that is not manufactured for or by Lenovo, stop using that product until you can contact the product manufacturer for further instructions, or until you get a suitable replacement.

Service and upgrades

Do not attempt to service a product yourself unless instructed to do so by the Customer Support Center or your documentation. Only use a Service Provider who is approved to repair your particular product.

Note: Some computer parts can be upgraded or replaced by the customer. Upgrades typically are referred to as options. Replacement parts approved for customer installation are referred to as Customer Replaceable Units, or CRUs. Lenovo provides documentation with instructions when it is appropriate for customers to install options or replace CRUs. You must closely follow all instructions when installing or replacing parts. The Off state of a power indicator does not necessarily mean that voltage levels inside a product are zero. Before you remove the covers from a product equipped with a power cord, always make sure that the power is turned off and that the product is unplugged from any power source. If you have any questions or concerns, contact the Customer Support Center.

Although there are no moving parts in your computer after the power cord has been disconnected, the following warnings are required for your safety.



CAUTION:
Hazardous moving parts. Keep fingers and other body parts away.



CAUTION:
Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

Power cords and power adapters



Use only the power cords and power adapters supplied by the product manufacturer.

The power cords shall be safety approved. For Germany, it shall be H05VV-F, 3G, 0.75 mm², or better. For other countries, the suitable types shall be used accordingly.

Never wrap a power cord around a power adapter or other object. Doing so can stress the cord in ways that can cause the cord to fray, crack, or crimp. This can present a safety hazard.

Always route power cords so that they will not be walked on, tripped over, or pinched by objects.

Protect power cords and power adapters from liquids. For instance, do not leave your power cord or power adapter near sinks, tubs, toilets, or on floors that are cleaned with liquid cleansers. Liquids can cause a short circuit, particularly if the power cord or power adapter has been stressed by misuse. Liquids also can cause gradual corrosion of power cord terminals and/or the connector terminals on a power adapter, which can eventually result in overheating.

Ensure that all power cord connectors are securely and completely plugged into receptacles.

Do not use any power adapter that shows corrosion at the ac input pins or shows signs of overheating (such as deformed plastic) at the ac input pins or anywhere on the power adapter.

Do not use any power cords where the electrical contacts on either end show signs of corrosion or overheating or where the power cord appears to have been damaged in any way.

To prevent possible overheating, do not cover the power adapter with clothing or other objects when the power adapter is plugged into an electrical outlet.

Plugs and outlets



If a receptacle (power outlet) that you intend to use with your computer equipment appears to be damaged or corroded, do not use the outlet until it is replaced by a qualified electrician.

Do not bend or modify the plug. If the plug is damaged, contact the manufacturer to obtain a replacement.

Do not share an electrical outlet with other home or commercial appliances that draw large amounts of electricity; otherwise, unstable voltage might damage your computer, data, or attached devices.

Some products are equipped with a three-pronged plug. This plug fits only into a grounded electrical outlet. This is a safety feature. Do not defeat this safety feature by trying to insert it into a non-grounded outlet. If you cannot insert the plug into the outlet, contact an electrician for an approved outlet adapter or to replace the outlet with one that enables this safety feature. Never overload an electrical outlet. The overall system load should not exceed 80 percent of the branch circuit rating. Consult an electrician for more information if you have questions about power loads and branch circuit ratings.

Be sure that the power outlet you are using is properly wired, easily accessible, and located close to the equipment. Do not fully extend power cords in a way that will stress the cords.

Be sure that the power outlet provides the correct voltage and current for the product you are installing.

Carefully connect and disconnect the equipment from the electrical outlet.

Power supply statement



Never remove the cover on a power supply or any part that has the following label attached.



Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.

Electrical current safety information



Electric current from power, telephone, and communication cables is hazardous. To avoid a shock hazard:

- Do not use your computer during a lightning storm.
- Do not connect or disconnect any cables or perform installation, maintenance, or re-configuration of this product during an electrical storm.
- Connect all power cords to a properly wired and grounded electrical outlet.
- Connect to properly wired outlets any equipment that will be attached to this product.
- Whenever possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.
- Disconnect the attached power cords, battery pack, and all the cables before you open the device covers, unless instructed otherwise in the installation and configuration procedures.
- Do not use your computer until all internal parts enclosures are fastened into place. Never use the computer when internal parts and circuits are exposed.



Connect and disconnect cables as described in the following procedures when installing, moving, or opening covers on this product or attached devices.

To connect:

1. Turn everything OFF.
2. First, attach all cables to devices.
3. Attach signal cables to connectors.
4. Attach power cords to outlets.
5. Turn devices ON.

To disconnect:

1. Turn everything OFF.
2. First, remove power cords from outlets.
3. Remove signal cables from connectors.
4. Remove all cables from devices.

The power cord must be disconnected from the wall outlet or receptacle before installing all other electrical cables connected to the computer.

The power cord may be reconnected to the wall outlet or receptacle only after all other electrical cables have been connected to the computer.



During electrical storms, do not perform any replacement and do not connect the telephone cable to or disconnect it from the telephone outlet on the wall.

Non-rechargeable coin-cell battery notice



If the coin-cell battery is incorrectly replaced, there is danger of an explosion. The battery contains a small amount of harmful substance.

Do not heat to more than 100 °C (212 °F).

The following statement applies to users in the state of California, U.S.A.

Products containing manganese dioxide lithium coin-cell batteries may contain perchlorate. Perchlorate Material - special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate.

Built-in rechargeable battery notice



Do not attempt to replace the built-in rechargeable battery. Replacement of the battery must be done by a Lenovo-authorized repair facility or technician.

Only recharge the battery strictly according to instructions included in the product documentation.

Removable rechargeable battery notice



Only recharge the battery strictly according to instructions included in the product documentation.

If the battery is incorrectly replaced, there is danger of an explosion. The battery contains a small amount of harmful substances.

Heat and product ventilation



Computers, ac power adapters, and many accessories can generate heat when turned on and when batteries are charging. Notebook computers can generate a significant amount of heat due to their compact size. Always follow these basic precautions:

- When your computer is turned on or the battery is charging, the base, the palm rest, and some other parts may become hot. Avoid keeping your hands, your lap, or any other part of your body in contact with a hot section of the computer for any extended length of time. When you use the keyboard, avoid keeping your palms on the palm rest for a prolonged period of time. Your computer generates some heat during normal operation. The amount of heat depends on the amount of system activity and the battery charge level. Extended contact with your body, even through clothing, could cause discomfort or even a skin burn. Periodically take breaks from using the keyboard by lifting your hands from the palm rest; and be careful not to use the keyboard for any extended length of time.
- Do not operate your computer or charge the battery near flammable materials or in explosive environments.
- Ventilation slots, fans and/or heat sinks are provided with the product for safety, comfort, and reliable operation. These features might inadvertently become blocked by placing the product on a bed, sofa, carpet, or other flexible surface. Never block, cover, or disable these features.
- When the ac power adapter is connected to an electrical outlet and your computer, it generates heat. Do not place the adapter in contact with any part of your body while using it. Never use the ac power adapter to warm your body. Extended contact with your body, even through clothing, may cause a skin burn.

For your safety, always follow these basic precautions with your computer:

- Keep the cover closed whenever the computer is plugged in.
- Regularly inspect the outside of the computer for dust accumulation.
- Remove dust from vents and any perforations in the bezel. More frequent cleaning might be required for computers in dusty or high-traffic areas.
- Do not restrict or block any ventilation openings.
- Do not operate your computer inside furniture, as this might increase the risk of overheating.
- Airflow temperatures into the computer should not exceed 35°C (95°F).

Liquid crystal display (LCD) notice

CAUTION:

The liquid crystal display (LCD) is made of glass and rough handling or dropping the computer can cause the LCD to break. If the LCD breaks and the internal fluid gets into your eyes or on your hands, immediately wash the affected areas with water for at least 15 minutes; if any symptoms are present after washing, get medical care.

Note: For products with mercury-containing fluorescent lamps (for example, non-LED), the fluorescent lamp in the liquid crystal display (LCD) contains mercury; dispose of according to local, state, or federal laws.

Extension cords and related devices

Ensure that extension cords, surge protectors, uninterruptible power supplies, and power strips that you use are rated to handle the electrical requirements of the product. Never overload these devices. If power strips are used, the load should not exceed the power strip input rating. Consult an electrician for more information if you have questions about power loads, power requirements, and input ratings.

Using headphones or earphones

CAUTION:

Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphone and headphone output voltage and the sound pressure level. Therefore, to protect your hearing, adjust the equalizer to an appropriate level.

Excessive use of headphones or earphones for a long period of time at high volume can be dangerous if the output of the headphone or earphone connectors do not comply with specifications of EN 50332-2. The headphone output connector of your computer complies with EN 50332-2 Sub clause 7. This specification limits the computer's maximum wide band true RMS output voltage to 150 mV. To help protect against hearing loss, ensure that the headphones or earphones you use also comply with EN 50332-2 (Clause 7 limits) for a wide band characteristic voltage of 75 mV. Using headphones that do not comply with EN 50332-2 can be dangerous due to excessive sound pressure levels.

If your Lenovo computer came with headphones or earphones in the package, as a set, the combination of the headphones or earphones and the computer already complies with the specifications of EN 50332-1. If different headphones or earphones are used, ensure that they comply with EN 50332-1 (Clause 6.5 Limitation Values). Using headphones that do not comply with EN 50332-1 can be dangerous due to excessive sound pressure levels.

Plastic bag notice



DANGER

Plastic bags can be dangerous. Keep plastic bags away from babies and children to avoid danger of suffocation.
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Glass parts notice

CAUTION:

Some parts of your product may be made of glass. This glass could break if the product is dropped on a hard surface or receives a substantial impact. If glass breaks, do not touch or attempt to remove it. Stop using your product until the glass is replaced by trained service personnel.

Chapter 2. Product overview

Product overview

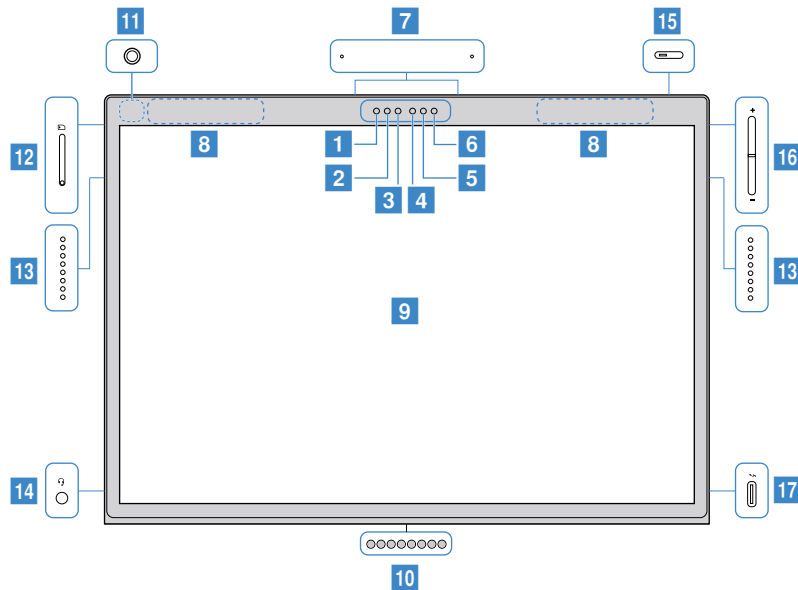


Figure 1. Product overview

1. Infrared	2. Webcam light
3. Infrared camera	4. Front webcam
5. Infrared	6. Ambient light sensor
7. Microphone holes	8. Wireless antennas (invisible from outside)
9. Display (with touch function)	10. Keyboard connectors
11. Rear webcam	12. Nano SIM / microSD tray
13. Speakers	14. Combo audio connector
15. Power button	16. Volume buttons
17. dc-in / USB (Type-C) connector	

Webcam

Your Lenovo Miix 630–12Q35 includes two webcams. The front webcam can be used for video calling, videoconferencing, or taking selfies; the rear webcam may be used for taking pictures or recording videos.

Note: Use the Camera app to take pictures and record videos. You may need to install additional apps for video calling or videoconferencing.

The Camera app

Camera is Windows built-in app for taking pictures and recording videos. Select **Start → Camera** to start the app. Within the Camera app, you can:

- Toggle between the front and rear webcam
- Take pictures
- Record videos
- Take panoramas

Autofocus

The rear webcam of Lenovo Miix 630–12Q35 has an autofocus lens. While taking pictures, it can detect faces and focus on them automatically. If it doesn't detect a face, it will focus on the main subject in the center.

To change the focus to another object, tap the screen to focus on a spot.

Note: The front webcam of Lenovo Miix 630–12Q35 has a fixed-focus lens and does not support autofocus.

Webcam light

The light of the webcam indicates whether the webcam is in use.

Note: It is designed to help you protect your privacy. You're able to judge if the webcam is in use by the status of the light.

Light status	Indication
On	The webcam is in use.
Off	The webcam is not in use.

Infrared camera

Set up Windows Hello, so you can use the infrared camera to sign-in with your face. For details, refer to “Set up face sign-in” on page 16.

Microphone hole

The built-in microphone can be used for voice recording, audio communication, or video conferencing.

Note: You may need to install additional software to use the microphone for these purposes.

Ambient light sensor

If your computer includes an ambient light sensor, you can set up Windows to change screen brightness according to surrounding light conditions. Refer to “Disable automatic adjustment of display brightness” on page 20 for details.

Wireless antennas

If your computer includes a radio transmitter, wireless antennas are built into the computer for sending and receiving radio. The antennas are usually not visible from the outside of the computer.

Power button

Press the Power button to turn on the computer.

Note: By default, when Windows is running, pressing the Power button puts the computer into sleep mode. The Power button function can be changed in Windows Control Panel.

Combo audio connector

The combo audio connector supports headphones or headsets with a 3.5 mm TRRS plug. It does not support standalone microphones nor headsets with a separate plug for microphone.

dc-in / USB (Type-C) connector

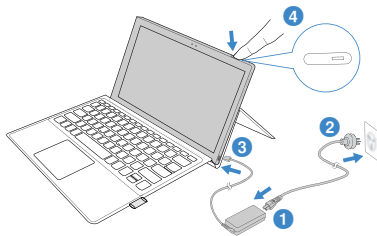
Plug in the included ac power adapter to charge the internal battery and provide power to the computer.

Note: While not used by the ac power adapter, the connector can also be used to connect external devices with a USB (Type-C) plug.

Connect to ac power

When battery is low, connect your computer to ac power.

Step 1. Connect the power cord with the ac power adapter. **1**



Step 2. Insert the plug of the power cord into a working electrical outlet. **2**

Step 3. Insert the plug of the ac power adapter into the dc-in connector. **3**



DANGER

All plugs must be firmly and securely inserted into receptacles.

Battery ship mode

Some internal batteries for Lenovo computers are set to ship mode at the factory. When in ship mode, the battery does not provide power to the computer. Battery ship mode is instantly de-activated when the computer is connected to power.

The first time you start your computer, use the ac power adapter (included with your computer) to connect your computer to a working electrical outlet.

Nano SIM / microSD tray

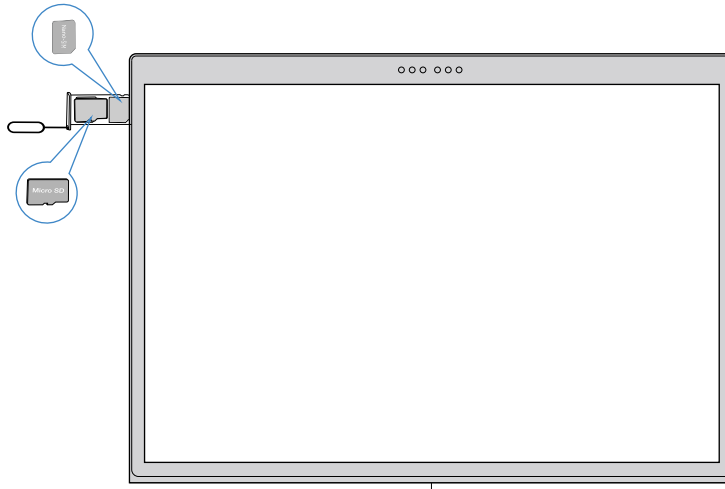
Lenovo Miix 630–12Q35 supports inserting one nano SIM card and one microSD card.

Insert a nano SIM card / microSD card

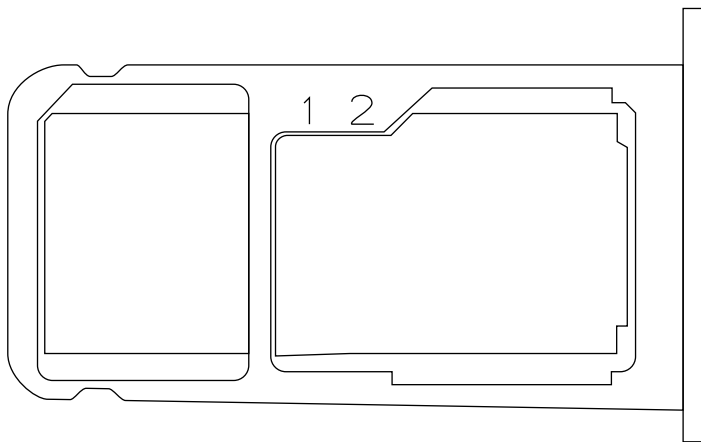
Shut down your computer before inserting a nano SIM card.

Step 1. Place your Lenovo Miix 630–12Q35 on a flat surface.

Step 2. Use a paper clip to eject the tray.



Step 3. Put a nano SIM card (position 1) or microSD card (position 2) into the right position.



Step 4. Reinstall the tray.

Display

The display supports touch functions. Use your finger or the included stylus for interaction with the computer.

Volume buttons

Use these two buttons to adjust volume. They are especially useful when the computer is used without the keyboard.

Specifications

The following table lists specifications for all models of Lenovo Miix 630–12Q35. Some specifications are model specific and may not apply to the model that you purchased. Specifications may change without notice.

Form factor

Dimensions	appr. 293 mm x 210 mm x 7.3 mm
Weight	appr. 770 g

Display

Size	12.3 inches
Resolution	1920 x 1080 pixels
Backlight type	LED

Memory

Type	DDR4
Speed	1600 MHz
On-board or installable?	On-board
Number of slots	0

Secondary storage (mass storage) device

All supported device types for all computer models are listed. The computer model you purchased typically include only one of the listed devices.

Type	Solid-state storage (eMMC 5.1)
Nominal capacity	• 128 GB • 256 GB
On-board or installable?	On-board

Note: The capacity of a mass storage device as reported by an operating system is typically smaller than its nominal capacity.

Input/output connectors

Connectors	Quantity
USB (Type-C)	1
Combo audio connector	1

Notes: When not used for charging the battery pack, the dc-in connector can also be used as a normal USB Type-C connector. The USB Type-C connector supports:

- USB 3.0 and 2.0
- DisplayPort 1.2

Battery pack

Installation	Built-in
Type	Lithium-ion
Capacity	48 Wh

Note: The capacity given here is the typical or average capacity as measured in a specific test environment. Capacities measured in other environments may differ but are no lower than the rated capacity (see product label).

ac power adapter

Input	100-240 Vac, 50-60 Hz
Output	15 Vdc
Power	45 W

Miscellaneous

Camera (front)	1280 x 720 pixels
Camera (rear)	2592 x 1944 pixels
SIM card support	Nano SIM
Expansion card support	microSD

Operating environment

Maximum altitude

3048 m (10,000 ft) (without pressurization)

Temperature

Operating	5 °C – 35 °C (41 °F – 95 °F)
Storage	5 °C – 43 °C (41 °F – 109 °F)

Note: When charging the battery pack, the environment temperature must be at least 0 °C (32 °F).

Relative humidity

Operating	8% – 95% at wet-bulb temperature 23 °C (73 °F)
Storage	5% – 95% at wet-bulb temperature 27 °C (81 °F)

If possible, place your computer in a well-ventilated and dry area without direct exposure to sunshine.

Pre-installed software

Software applications pre-installed by Lenovo are listed in the following table.

Software	Developer / Publisher
Windows 10 S	Microsoft
Lenovo Vantage	Lenovo

Chapter 3. Basic operations

Information about Windows

This publication includes information and instructions on using the Windows operating system. These information and instructions may not apply to Lenovo computers pre-installed with other operating systems.

Starting from Windows 10, Microsoft makes periodic feature changes to the operating system through Windows Update. As a result, some information and instructions in this publication may become outdated. Refer to Microsoft resources for the most updated information.

Windows help information provided by Microsoft

Microsoft provides a comprehensive set of information to help you learn and use the Windows operating system.

Resources	Type	What's included?
Tips	Microsoft Store app (pre-installed)	New features and tips on getting the most out of Windows
Get Help	Microsoft Store app (pre-installed), virtual agent	Instructions on the various settings of Windows
Microsoft support Web site	Internet resources	Comprehensive help information on Windows

To start the Tips or Get Help app, type the app name in the search box of Windows desktop and select the matched result.

Note: Your computer must have an Internet connection to use Get Help. If you have started Windows Settings, click the **Get help** link to get in-context help.

Windows user account

You must create at least one user account to use the Windows operating system. When you start Windows for the first time, you're prompted to create your user account. You should also create a password to secure your account.

Note: The first created account is of the "Administrator" type. It can create additional user accounts.

Add additional user accounts

Your user account must be of the "Administrator" type to add additional user accounts to Windows.

Add additional user accounts if you need to share your computer with family members or other people.

Step 1. Select **Start → Settings → Accounts → Family & other people**.

Step 2. Select either **Add a family member** or **Add someone else to this PC**.

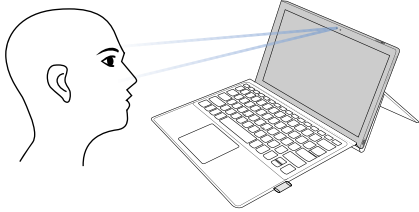
Note: By default, you're prompted to add Microsoft accounts. If you don't know the person's Microsoft account, either create one or select **Add a user without a Microsoft account**. If you're having problems, select the **Get help** link to read Microsoft's help information.

Set up face sign-in

Your computer must include infrared camera to set up and use face sign-in.

Step 1. Select **Start → Settings → Accounts → Sign-in options**; under **Face Recognition**, select **Set up → Get started**. Your account must be password protected to set up other sign-in options. Click **Add** under **Password** if you haven't set one.

Step 2. Make sure your face is centered in the frame and keep looking at the camera.



Step 3. When prompted, set up a PIN as a backup sign-in option.

To sign in with your face, start Windows and look at the camera when the sign-in screen is displayed.

Note: If face sign-in doesn't work, click **Sign-in options** on the sign-in page, and use either password or PIN to sign in.

Network connection capabilities

Depending on configuration, your Lenovo Miix 630–12Q35 may include one or more of the following network capabilities.

- Wired Ethernet connection

- Wi-Fi connection

- 4G LTE connection (nano SIM)

- 4G LTE connection (embedded SIM)

A physical SIM card is usually not supplied with your Lenovo Miix 630–12Q35. Consult local Internet providers to decide your mobile connection options and data plans.

Note: You need to purchase a separate USB (Type C) to RJ-45 adapter for using wired network connections. You're responsible for evaluating and testing compatibility of such adapters.

Connect to a Wi-Fi network

Step 1. Click the network (globe) icon in the notification area.

Step 2. Select a network name, and select **Connect**. If you want to connect to this network whenever you're in range, select **Connect automatically**.

Note: Make sure **Airplane mode** is turned off and **Wi-Fi** is turned on.

Step 3. When prompted, type in the network password and select **Next**.

If you're connected successfully, the network icon changes to a signal strength icon.

Forget a Wi-Fi network

Windows saves a list of Wi-Fi networks you have connected to, along with their passwords and other settings. By doing this, your computer is automatically connected when it is in range of a connected network.

However, if a network password has been changed, you may need to forget a Wi-Fi network in order to re-type in the password.

Step 1. Select **Start → Network & Internet → Wi-Fi**.

Step 2. Click **Manage known networks**.

Step 3. Click the network name and click **Forget**.

The folio case

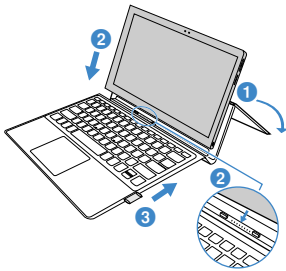
A folio case is available from Lenovo for working with your Lenovo Miix 630–12Q35. It includes an integrated keyboard and touchpad and can be used for two purposes:

- as a protective case for carrying your tablet around
- as a tablet stand with keyboard and touchpad

Set up the folio case as a tablet stand

If you have a folio case, you can set it up as a tablet stand. The integrated keyboard and touchpad of the folio case make your tablet function like a notebook computer.

Step 1. Put the folio case on a desk; open the folio case and pull down the upper part of the back cover.



Step 2. With the metal connectors of the tablet aligned with those on the folio case, place the tablet near the inner spine of the folio case. The tablet will click into place.

Step 3. Push the keyboard towards the tablet until the two parts snap together.

Note: The keyboard is tilted a little for comfortable typing.

Lenovo Pen overview

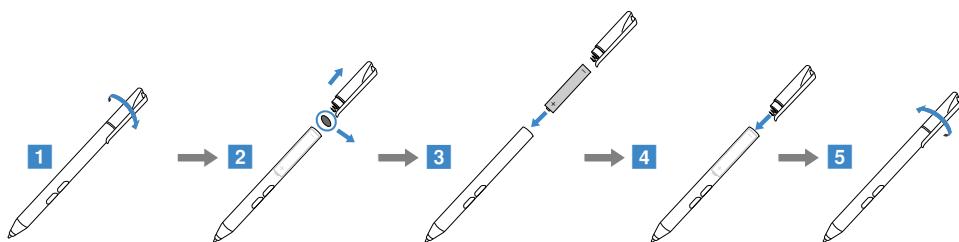


1	Clip
2	Top button
3	Bottom button
4	Tip

Note: The Lenovo Pen is an optional part and may not come with your Lenovo Miix 630–12Q35.

Before first use

An insulation pad may be included in the Lenovo Pen to prevent capacity loss during shipping. The first time you use the pen, check and remove the insulation pad. **(2)**



CAUTION:

The Lenovo Pen uses AAAA battery. Replace with the right battery.

Button functions of the Lenovo Pen

The table below lists button functions of the Lenovo Pen for some popular applications. To use the eraser function, hold down the bottom button and tap on the strokes you want to erase.

Table 1. Lenovo Pen — button functions

Application	Top button	Bottom button
Microsoft Word	No function	Eraser
Paint	Color 2	No function
Microsoft Edge	No function	Eraser
Microsoft OneNote	No function	Eraser
Sticky Notes	No function	Eraser
Sketchpad	No function	Eraser
Screen sketch	No function	Eraser

Note: Sticky Notes, Sketchpad, and Screen sketch are three applications provided with Windows Ink Workspace.

Windows Ink Workspace

Windows Ink Workspace is a component of Windows 10. It includes apps designed for using with digital pens. When displayed, the workspace also provides quick access to:

- Recently used pen-enabled apps

- Suggested apps you can download from the Microsoft Store

Pen and Windows Ink settings

To display the Ink Workspace, click or tap the pen-shaped icon in the notification area.

Note: If the icon is not displayed, right-click on the taskbar and select **Show Windows Ink Workspace button**.

Storage of the Lenovo Pen

Temporary storage

When you use your Lenovo Miix 630–12Q35 with the folio keyboard, put the Lenovo Pen to the left edge of the tablet for temporary storage.

Note: Place the pen near the left edge of the tablet and it will snap into place.

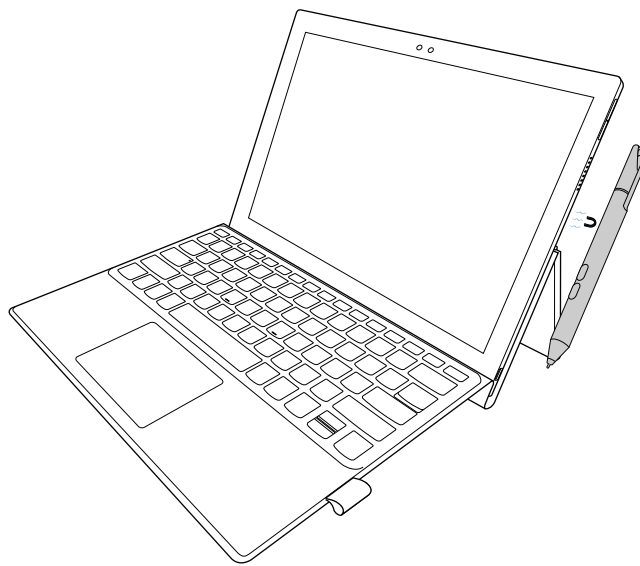


Figure 2. Lenovo Pen snaps onto the left edge of the tablet

Carry the pen around

If you need to carry the pen around with your Lenovo Miix 630–12Q35, insert the pen into the pen holder of the folio keyboard.

Note: The folio keyboard is an optional part and may not come with your Lenovo Miix 630–12Q35.

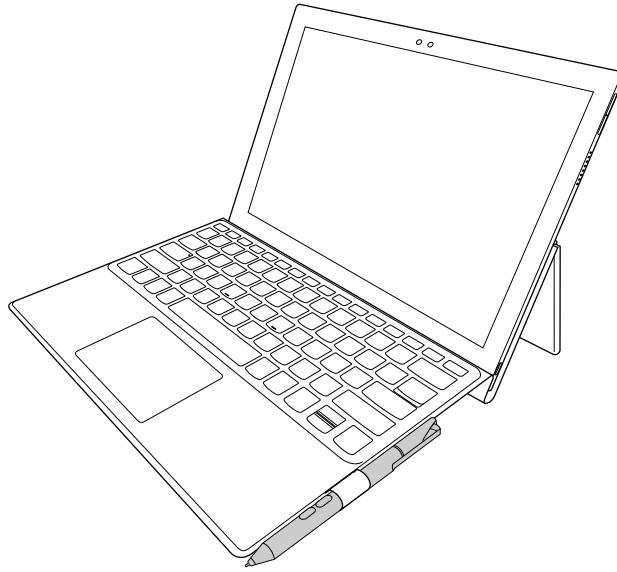


Figure 3. Lenovo Pen inserted into the pen holder

Long time storage

If you don't need to use the pen for an extended period (more than a month), remove the AAAA battery from the pen and store them separately.

Enable tablet mode

If you're using the tablet without a keyboard, enable tablet mode.

Step 1. From Windows desktop, tap the Action Center icon (on the far right of the taskbar).

Step 2. Tap the **Tablet mode** toggle button to enable tablet mode.

When tablet mode is enabled, Windows on-screen keyboard is automatically displayed when text input is needed.

Disable automatic adjustment of display brightness

If your computer includes an ambient light sensor, the display brightness may change automatically with environment lighting. This function can be disabled in Windows Settings.

Step 1. Select **Settings → System → Display**.

Step 2. De-select **Change brightness automatically when lighting changes**.

Windows Updates

Microsoft periodically releases feature updates and security updates to add features and improve the stability and performance of your computer. These updates are downloaded automatically when the computer is connected to the Internet. You also can manually check for updates or make changes so that updates are installed to your needs.

Manually check for updates

Step 1. Select **Start → Settings → Update & Security**.

Step 2. Click **Check for updates**.

Chapter 4. Reset and restore Windows

Windows 10 recovery options

Windows 10 provides several options for you to restore or reset your computer. The following table helps you decide which option to choose 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 causes the problem.	Reset your computer.
You want to recycle or donate your computer.	Reset your computer.
Windows cannot start properly.	Use a recovery drive to restore or reset your computer.

Restore from a system restore point

- Step 1. In the search box of Windows desktop, search for **Recovery** and then select it.
- Step 2. Select **Open System Restore → Next**.
- Step 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 10. It monitors changes to Windows system files and saves system state as a restore point. If your computer does not work well after installing apps, drivers, or updates, you can revert your system to a previous restore point.

Note: If you revert your system to a previous restore point, personal data is not affected.

System Restore creates restore points:

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

Note: In order for System Restore to create restore points, system protection must be turned on for the system drive.

Create a system restore point manually

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

- Step 1. In Windows 10 search box, type **Create a restore point** and select the matched result.
- Step 2. Select the **System Protection** tab and then select **Create**.

Note: System protection must be turned on for the system drive (typically drive C) of your computer before you can create restore points. Select a drive and then select **Configure** to turn on or disable system protection.

Reset your computer

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

Step 1. Go to **Settings → Update & security → Recovery**; under **Reset this PC**, select **Get started**.

Step 2. Choose an option.

If you want to keep personal files, select **Keep my files**.

Otherwise, select **Remove everything**.

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

Use a recovery drive to restore or reset your computer

For computers without a USB Type A connector, you need to purchase an adapter (USB Type C to Type A) to create and use a recovery drive.

Even if Windows cannot start, you can use a recovery drive (created in advance) to restore or reset your computer.

Step 1. Connect the recovery drive to your computer; restart your computer and set it up to start from the recovery drive.

Step 2. On the **Choose an option** screen, select **Troubleshoot**.

Step 3. Choose a recovery option.

Select **Advanced Options → System Restore** to restore your computer to a system restore point.

Or select **Recover from a drive** to reset your computer.

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

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

Create a recovery drive

Use a USB drive (not supplied) to create a recovery drive. In cases Windows cannot start, it can be used to troubleshoot problems or reset computer.

Step 1. In Windows 10 search box, type **Create a recovery drive** and then select the matched result.

Note: The search box is located in the lower left corner of the desktop, next to the Start button.

Step 2. Make sure **Back up system files to the recovery drive** is selected and then select **Next**.

Step 3. Connect a USB drive to your computer, select it, and then select **Next → Create**.

Attention: Previous files on the drive will be deleted. Back up personal files before using it to create a recovery drive.

When 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 5. Accessibility, ergonomic, and maintenance information

Accessibility and comfort

Good ergonomic practice is important to get the most from your personal computer and to avoid discomfort. Arrange your workplace and the equipment you use to suit your individual needs and the kind of work that you perform. In addition, use healthy work habits to maximize your performance and comfort while using your computer.

Lenovo is committed to providing the latest information and technology to our customers with disabilities. Refer to our accessibility information which outlines our efforts in this area.

Ergonomic information

Working in the virtual office might mean adapting to frequent changes in your environment. Following some simple rules will make things easier and bring you the maximum benefits of your computer. Keeping in mind such basics as good lighting and proper seating, for example, can help you improve your performance and achieve greater comfort.

This example shows someone in a conventional setting. Even when not in such a setting, you can follow many of these tips. Develop good habits, and they will serve you well.



Figure 4. Illustration of proper seating and computer positioning

General posture

Make minor modifications in your working posture to deter the onset of discomfort caused by long periods of working in the same position. Frequent, short breaks from your work also help to prevent minor discomfort associated with your working posture.

Display

Position the display to maintain a comfortable viewing distance of 510-760 mm (20-30 inch). Avoid glare or reflections on the display from overhead lighting or outside sources of light. Keep the display screen clean and set the brightness to levels that enable you to see the screen clearly. Press the corresponding hotkeys on the keyboard to adjust display brightness.

Head position

Keep your head and neck in a comfortable and neutral (vertical or upright) position.

Chair

Use a chair that gives you good back support and seat height adjustment. Use chair adjustments to best suit your desired posture.

Arm and hand position

If available, use chair arm rests or an area on your working surface to provide weight support for your arms. Keep your forearms, wrists, and hands in a relaxed and neutral (horizontal) position. Type with a soft touch without pounding the keys.

Leg position

Keep your thighs parallel to the floor and your feet flat on the floor or on a footrest.

What if you are traveling?

It might not be possible to observe the best ergonomic practices when you are using your computer while on the move or in a casual setting. Regardless of the setting, try to observe as many of the tips as possible. Sitting properly and using adequate lighting, for example, will help you maintain desirable levels of comfort and performance.

Questions about vision?

The visual display screens of Lenovo notebook computers are designed to meet the highest standards and to provide you with clear, crisp images and large, bright displays that are easy to see, yet easy on the eyes. Of course, any concentrated and sustained visual activity can be tiring. If you have questions on eye fatigue or visual discomfort, consult a vision care specialist for advice.

Basic maintenance tips

- Keep your computer away from magnets, activated cellular phones, electrical appliances, or speakers (more than 13 cm or 5 inches).
- Avoid subjecting your computer to extreme temperatures (below 5 °C/41 °F or above 35 °C/95 °F).
- Avoid placing any objects (including paper) between the display and the keyboard or the palm rest.
- Do not turn your computer over when the ac power adapter is plugged in, otherwise, it could break the adapter plug.
- Before moving your computer, be sure to remove any media, turn off attached devices, and disconnect cords and cables.
- When picking up your open notebook computer, hold it by the bottom. Do not pick up or hold your notebook computer by the display.
- Avoid directly exposing your computer and peripherals to the air from an appliance that can produce negative ions. Wherever possible, ground your computer to facilitate safe electrostatic discharge.

Cleaning your computer

It is a good practice to clean your computer periodically to protect the surfaces and ensure trouble-free operation.

Cleaning the computer cover

Wipe it with a lint-free cloth dampened in mild soap and water. Avoid applying liquids directly to the cover.

Cleaning the keyboard

Wipe the keys one by one with a lint-free cloth dampened in mild soap and water. If you wipe several keys at a time, the cloth might hook onto an adjacent key and possibly damage it. Avoid spraying cleaner directly onto the keyboard. To remove any crumbs or dust from beneath the keys, you can use a camera blower with a brush or use cool air from a hair dryer.

Cleaning the computer screen

Scratches, oil, dust, chemicals, and ultraviolet light can affect the performance of your computer screen. Use a dry, soft lint-free cloth to wipe the screen gently. If you see a scratch-like mark on your screen, it might be a stain. Wipe or dust the stain gently with a soft, dry cloth. If the stain remains, moisten a soft, lint-free cloth with water or eyeglass cleaner, but do not apply liquids directly to your computer screen. Ensure that the computer screen is dry before closing it.

Appendix A. Compliance information

Lenovo compliance information Web sites

The latest electronic compliance and environmental information are available from the Lenovo compliance information Web sites.

- To view compliance information, go to <http://www.lenovo.com/compliance>
 - To download environmental declarations, go to <http://www.lenovo.com/ecodeclaration>
-

Environmental and recycling information

General recycling information

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products. For information about recycling Lenovo products, go to <http://www.lenovo.com/recycling>.

Recycling information for China

《废弃电器电子产品处理管理条例》提示性说明

联想鼓励拥有联想品牌产品的用户不再需要此类产品时，遵守国家废弃电器电子产品回收处理相关法律法规，将其交给当地具有国家认可的回收处理资质的厂商进行回收处理。更多回收服务信息，请点击进入<http://support.lenovo.com.cn/activity/551.htm>。

Japan recycling statements

Collecting and recycling a disused Lenovo computer or monitor

If you are a company employee and need to dispose of a Lenovo computer or monitor that is the property of the company, you must do so in accordance with the Law for Promotion of Effective Utilization of Resources. Computers and monitors are categorized as industrial waste and should be properly disposed of by an industrial waste disposal contractor certified by a local government. In accordance with the Law for Promotion of Effective Utilization of Resources, Lenovo Japan provides, through its PC Collecting and Recycling Services, for the collecting, reuse, and recycling of disused computers and monitors. For details, visit the Lenovo Web site at <http://www.lenovo.com/recycling/japan>.

Pursuant to the Law for Promotion of Effective Utilization of Resources, the collecting and recycling of home-used computers and monitors by the manufacturer was begun on October 1, 2003. This service is provided free of charge for home-used computers sold after October 1, 2003. For details, go to <http://www.lenovo.com/recycling/japan>.

Disposing of Lenovo computer components

Some Lenovo computer products sold in Japan may have components that contain heavy metals or other environmental sensitive substances. To properly dispose of disused components, such as a printed circuit board or drive, use the methods described above for collecting and recycling a disused computer or monitor.

Disposing of disused lithium batteries from Lenovo computers

A button-shaped lithium battery is installed inside your Lenovo computer to provide power to the computer clock while the computer is off or disconnected from the main power source. If you need to replace it with a new one, contact your place of purchase or contact Lenovo for service. If you need to dispose of a disused lithium battery, insulate it with vinyl tape, contact your place of purchase or an industrial-waste-disposal operator, and follow their instructions.

Disposal of a lithium battery must comply with local ordinances and regulations.

Disposing of a disused battery from Lenovo notebook computers

Your Lenovo notebook computer has a lithium ion battery or a nickel metal hydride battery. If you are a company employee who uses a Lenovo notebook computer and need to dispose of a battery, contact the proper person in Lenovo sales, service, or marketing, and follow that person's instructions. You also can refer to the instructions at <https://www.lenovo.com/jp/ja/environment/recycle/battery/>.

If you use a Lenovo notebook computer at home and need to dispose of a battery, you must comply with local ordinances and regulations. You also can refer to the instructions at <https://www.lenovo.com/jp/ja/environment/recycle/battery/>.

Brazil recycling information

Descarte de um Produto Lenovo Fora de Uso

Equipamentos elétricos e eletrônicos não devem ser descartados em lixo comum, mas enviados à pontos de coleta, autorizados pelo fabricante do produto para que sejam encaminhados e processados por empresas especializadas no manuseio de resíduos industriais, devidamente certificadas pelos órgãos ambientais, de acordo com a legislação local.

A Lenovo possui um canal específico para auxiliá-lo no descarte desses produtos. Caso você possua um produto Lenovo em situação de descarte, ligue para o nosso SAC ou encaminhe um e-mail para: reciclar@lenovo.com, informando o modelo, número de série e cidade, a fim de enviarmos as instruções para o correto descarte do seu produto Lenovo.

Battery recycling information for the European Union



Note: This mark applies only to countries within the European Union (EU).

Batteries or packaging for batteries are labeled in accordance with European Directive 2006/66/EC concerning batteries and accumulators and waste batteries and accumulators. The Directive determines the framework for the return and recycling of used batteries and accumulators as applicable throughout the European Union. This label is applied to various batteries to indicate that the battery is not to be thrown away, but rather reclaimed upon end of life per this Directive.

In accordance with the European Directive 2006/66/EC, batteries and accumulators are labeled to indicate that they are to be collected separately and recycled at end of life. The label on the battery may also include a chemical symbol for the metal concerned in the battery (Pb for lead, Hg for mercury, and Cd for cadmium). Users of batteries and accumulators must not dispose of batteries and accumulators as unsorted municipal

waste, but use the collection framework available to customers for the return, recycling, and treatment of batteries and accumulators. Customer participation is important to minimize any potential effects of batteries and accumulators on the environment and human health due to the potential presence of hazardous substances.

Before placing electrical and electronic equipment (EEE) in the waste collection stream or in waste collection facilities, the end user of equipment containing batteries and/or accumulators must remove those batteries and accumulators for separate collection.

Disposing of lithium batteries and battery packs from Lenovo products

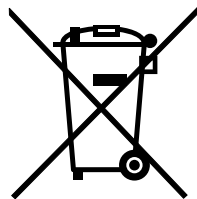
A coin-cell type lithium battery might be installed inside your Lenovo product. You can find details about the battery in the product documentation. If the battery needs to be replaced, contact your place of purchase or contact Lenovo for service. If you need to dispose of a lithium battery, insulate it with vinyl tape, contact your place of purchase or a waste-disposal operator, and follow their instructions.

Disposing of battery packs from Lenovo products

Your Lenovo device might contain a lithium ion battery pack or a nickel metal hydride battery pack. You can find details on the battery pack in the product documentation. If you need to dispose of a battery pack, insulate it with vinyl tape, contact Lenovo sales, service, or your place of purchase, or a waste-disposal operator, and follow their instructions. You also can refer to the instructions provided in the user guide for your product.

For proper collection and treatment, go to <http://www.lenovo.com/lenovo/environment>.

Important WEEE information



The WEEE marking on Lenovo products applies to countries with WEEE and e-waste regulations (for example, the European WEEE Directive, India E-Waste Management Rules). Appliances are labeled in accordance with local regulations concerning waste electrical and electronic equipment (WEEE). These regulations determine the framework for the return and recycling of used appliances as applicable within each geography. This label is applied to various products to indicate that the product is not to be thrown away, but rather put in the established collection systems for reclaiming these end of life products.

Users of electrical and electronic equipment (EEE) with the WEEE marking must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, and recovery of WEEE and to minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. Lenovo electrical and electronic equipment (EEE) may contain parts and components, which at end-of-life might qualify as hazardous waste.

EEE and waste electrical and electronic equipment (WEEE) can be delivered free of charge to the place of sale or any distributor that sells electrical and electronic equipment of the same nature and function as the used EEE or WEEE.

For additional WEEE information go to <http://www.lenovo.com/recycling>.

WEEE information for Hungary

A magyar törvények értelmében, a 197/2014 (VIII.1.) kormányrendelet 12. szakaszának (1)-(5) cikkében foglaltak szerint Lenovo mint gyártó állja a keletkező költségeket.

China RoHS

为满足中国电子电器产品有害物质限制相关的法律法规和其他要求，联想公司对本产品中有害物质按部件分类，声明如下。

部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CR (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板组件*	X	○	○	○	○	○
硬盘	X	○	○	○	○	○
LCD面板 (LED背光源)	X	○	○	○	○	○
键盘	X	○	○	○	○	○
内存	X	○	○	○	○	○
电池	X	○	○	○	○	○
电源适配器	X	○	○	○	○	○
底壳、顶壳和扬声器	X	○	○	○	○	○

	在中华人民共和国境内销售的电子信息产品必须带有此“环保使用期限” (EPuP) 标志。圆圈内的数字标示正常使用状态下产品的环保使用期限。
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Note: 本表格依据SJ/T 11364的规定编制。某些型号的产品可能不包含表中的部分部件。

○：表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

X：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。标记“X”的部件，皆因全球技术发展水平限制而无法实现有害物质的替代。

*：印刷电路板组件包括印刷电路板及其零部件、电容和连接器等。

India RoHS

RoHS compliant as per E-waste (Management) Rules.

European Union RoHS

This Lenovo product, with included parts (cables, cords, and so on) meets the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (“RoHS recast” or “RoHS 2”).

For more information about Lenovo worldwide compliance on RoHS, go to: www.lenovo.com/rohs-communication.

ENERGY STAR information



Figure 5. ENERGY STAR mark

ENERGY STAR® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy aimed at saving money and protecting the environment through energy efficient products and practices.

Lenovo is proud to offer our customers products with the ENERGY STAR qualified designation. Lenovo computers of machine type(s) 81F1, if the ENERGY STAR mark is affixed, have been designed and tested to conform to the ENERGY STAR program requirements for computers.

By using ENERGY STAR qualified products and taking advantage of the power management features of your computer, you can help reduce the consumption of electricity. Reduced electrical consumption can contribute to potential financial savings, a cleaner environment, and the reduction of greenhouse gas emissions.

For more information about ENERGY STAR, go to: <http://www.energystar.gov>.

Lenovo encourages you to make efficient use of energy an integral part of your day-to-day operations. To help in this endeavor, Lenovo has preset the following power-management features to take effect when your computer has been inactive for a specified length of time:

Table 2. Default power-saving settings (Windows 10)

Power plan	Power-saving settings (plugged in)
Balanced	• Turn off the display: after 10 minutes • Put the computer to sleep: after 30 minutes

To wake your computer from sleep mode, press the Power button or any key on the keyboard.

Electromagnetic compatibility notices

Federal Communications Commission Declaration of Conformity

The following information applies to product(s) 81F1.

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 using other than specified or recommended cables and connectors or 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
Phone Number: 919-294-5900



Industry Canada compliance statement

CAN ICES-3(B)/NMB-3(B)

German Class B compliance statement

Hinweis für Geräte der Klasse B EU Richtlinie zur Elektromagnetischen Verträglichkeit

Dieses Produkt entspricht den Schutzanforderungen der EU Richtlinie 2014/30/EU zur Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten, und hält die Grenzwerte der Klasse B der Norm gemäß Richtlinie ein.

Um dieses sicherzustellen, sind die Geräte wie in den Handbüchern beschrieben zu installieren und zu betreiben. Des Weiteren dürfen auch nur von Lenovo empfohlene Kabel angeschlossen werden. Lenovo übernimmt keine Verantwortung für die Einhaltung der Schutzanforderungen, wenn das Produkt ohne Zustimmung von Lenovo verändert wurde bzw. wenn Erweiterungskomponenten von Fremdherstellern ohne Empfehlung von Lenovo gesteckt/eingebaut werden.

Deutschland:

Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit von Betriebsmitteln

Dieses Produkt entspricht dem "Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln" EMVG (früher "Gesetz über die elektromagnetische Verträglichkeit von Geräten"). Dies ist die Umsetzung der EMV EU Richtlinie 2014/30/EU in der Bundesrepublik Deutschland.

Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln EMVG vom 20. Juli 2007 (früher Gesetz über die elektromagnetische Verträglichkeit von Geräten), bzw. der EMV EU Richtlinie 2014/30/EU für Geräte der Klasse B.

Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen. Verantwortlich für die Konformitätserklärung nach Paragraf 5 des EMVG ist die Lenovo (Deutschland) GmbH, Meitnerstr. 9, D-70563 Stuttgart.

Informationen in Hinsicht EMVG Paragraf 4 Abs. (1) 4:

Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022 Klasse B.

Declaration of conformity to EU directives

EU Contact: Lenovo, Einsteinova 21, 851 01 Bratislava, Slovakia



Models without a radio device

This product is in conformity with the protection requirements of EU Council EMC Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Models with a radio device

This product is in conformity with all the requirements and essential norms that apply to EU Council Radio Equipment Directive 2014/53/EU on the approximation of the laws of the Member States relating to radio equipment. The full text of the system EU declaration of conformity and the EU wireless module declarations are available at following Internet addresses:

- For notebook computers: <http://www.lenovo.com/eu-doc-notebooks>

- For tablets: <http://www.lenovo.com/eu-doc-tablets>

Lenovo cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the installation of option cards from other manufacturers. This product has been tested and found to comply with the limits for Class B equipment according to European Standards harmonized in the Directives in compliance. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

Japan VCCI Class B compliance statement

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B

Other compliance notices

Brazil audio caution statement

Ouvir sons com mais de 85 decibéis por longos períodos pode provocar danos ao sistema auditivo.

Export classification notice

This product is subject to the United States Export Administration Regulations (EAR) and has an Export Classification Control Number (ECCN) of 5A992.c. It can be re-exported except to any of the embargoed countries in the EAR E1 country list.

Taiwan precautionary vision statement

警語：使用過度恐傷害視力

注意事項：

- 使用30分鐘請休息10分鐘
- 2歲以下幼兒不看螢幕，2歲以上每天看螢幕不要超過1小時

Limited and restricted rights notice

If data or software is delivered pursuant a General Services Administration “GSA” contract, use, reproduction, or disclosure is subject to restrictions set forth in Contract No. GS-35F-05925.

Appendix B. Lenovo help and support

Lenovo support Web site

Technical support information is available on the Lenovo support Web site at <http://www.lenovo.com/support>.

Call Lenovo customer support center

If you have tried to correct the problem yourself but still need help, during the warranty period, you can get help and information by telephone through the customer support center.

Before calling customer support

Ensure that you have downloaded the most current drivers and system updates and recorded information about your computer before you call. When calling for technical assistance, have the following information available.

- Machine type and model
- Serial number of your computer
- Description of the problem
- Exact wording of any error messages
- Hardware and software configuration information

Services supported by Lenovo customer support center

The following services are available during the warranty period.

- Problem determination - Trained personnel are available to assist you with determining if you have a hardware problem and deciding what action is necessary to fix the problem.
- Lenovo hardware repair - If the problem is determined to be caused by Lenovo hardware under warranty, trained service personnel are available to provide the applicable level of service.
- Engineering change management - Occasionally, there might be changes that are required after a product has been sold. Lenovo or your reseller, if authorized by Lenovo, will make selected Engineering Changes (ECs) that apply to your hardware available.

Services not supported by Lenovo customer support center

- Replacement or use of parts not manufactured for or by Lenovo or non-warranted parts
- Identification of software problem sources
- Configuration of UEFI BIOS as part of an installation or upgrade
- Changes, modifications, or upgrades to device drivers
- Installation and maintenance of network operating systems (NOS)
- Installation and maintenance of programs

Support phone numbers

For the Lenovo support phone number for your country or region, go to <http://www.lenovo.com/support/phone>.

Note: Phone numbers are subject to change without notice. If the number for your country or region is not provided, contact your Lenovo reseller or Lenovo marketing representative.

Appendix C. Lenovo Limited Warranty

L505-0010-02 08/2011

This Lenovo Limited Warranty consists of the following parts:

- Part 1 – General Terms
- Part 2 – Country-specific Terms
- Part 3 – Warranty Service Information

The terms of Part 2 replace or modify terms of Part 1 as specified for a particular country.

Part 1 - General Terms

This Lenovo Limited Warranty applies only to Lenovo hardware products you purchased for your own use and not for resale.

This Lenovo Limited Warranty is available in other languages at www.lenovo.com/warranty.

What this Warranty Covers

Lenovo warrants that each Lenovo hardware product that you purchase is free from defects in materials and workmanship under normal use during the warranty period. The warranty period for the product starts on the original date of purchase as shown on your sales receipt or invoice or as may be otherwise specified by Lenovo. The warranty period and type of warranty service that apply to your product are as specified in "Part 3 - Warranty Service Information" below. This warranty only applies to products in the country or region of purchase.

THIS WARRANTY IS YOUR EXCLUSIVE WARRANTY AND REPLACES ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. AS SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF EXPRESS OR IMPLIED WARRANTIES, THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. IN THAT EVENT, SUCH WARRANTIES APPLY ONLY TO THE EXTENT AND FOR SUCH DURATION AS REQUIRED BY LAW AND ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. AS SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, THE ABOVE LIMITATION ON DURATION MAY NOT APPLY TO YOU.

How to Obtain Warranty Service

If the product does not function as warranted during the warranty period, you may obtain warranty service by contacting Lenovo or a Lenovo approved Service Provider. A list of approved Service Providers and their telephone numbers is available at: www.lenovo.com/support/phone.

Warranty service may not be available in all locations and may differ from location to location. Charges may apply outside a Service Provider's normal service area. Contact a local Service Provider for information specific to your location.

Customer Responsibilities for Warranty Service

Before warranty service is provided, you must take the following steps:

- follow the service request procedures specified by the Service Provider
- back up or secure all programs and data contained in the product

- provide the Service Provider with all system keys or passwords
- provide the Service Provider with sufficient, free, and safe access to your facilities to perform service
- remove all data, including confidential information, proprietary information and personal information, from the product or, if you are unable to remove any such information, modify the information to prevent its access by other party or so that it is not personal data under applicable law. The Service Provider shall not be responsible for the loss or disclosure of any data, including confidential information, proprietary information, or personal information, on a product returned or accessed for warranty service
- remove all features, parts, options, alterations, and attachments not covered by the warranty
- If you are not the owner of a product or part, obtain authorization from the owner for the Service Provider to provide warranty service

What Your Service Provider Will Do to Correct Problems

When you contact a Service Provider, you must follow the specified problem determination and resolution procedures.

The Service Provider will attempt to diagnose and resolve your problem by telephone, e-mail or remote assistance. The Service Provider may direct you to download and install designated software updates.

Some problems may be resolved with a replacement part that you install yourself called a "Customer Replaceable Unit" or "CRU." If so, the Service Provider will ship the CRU to you for you to install.

If your problem cannot be resolved over the telephone, through the application of software updates or the installation of a CRU, the Service Provider will arrange for service under the type of warranty service designated for the product under "Part 3 - Warranty Service Information" below.

If the Service Provider determines that it is unable to repair your product, the Service Provider will replace it with one that is at least functionally equivalent.

If the Service Provider determines that it is unable to either repair or replace your product, your sole remedy under this Limited Warranty is to return the product to your place of purchase or to Lenovo for a refund of your purchase price.

Replacement Products and Parts

When warranty service involves the replacement of a product or part, the replaced product or part becomes Lenovo's property and the replacement product or part becomes your property. Only unaltered Lenovo products and parts are eligible for replacement. The replacement product or part provided by Lenovo may not be new, but it will be in good working order and at least functionally equivalent to the original product or part. The replacement product or part shall be warranted for the balance of the period remaining on the original product.

Use of Personal Contact Information

If you obtain service under this warranty, you authorize Lenovo to store, use and process information about your warranty service and your contact information, including name, phone numbers, address, and e-mail address. Lenovo may use this information to perform service under this warranty. We may contact you to inquire about your satisfaction with our warranty service or to notify you about any product recalls or safety issues. In accomplishing these purposes, you authorize Lenovo to transfer your information to any country where we do business and to provide it to entities on our behalf. We may also disclose it where required by law. Lenovo's privacy policy is available at www.lenovo.com.

What This Warranty Does not Cover

This warranty does not cover the following:

- uninterrupted or error-free operation of a product

- loss of, or damage to, your data by a product
- any software programs, whether provided by the product or installed subsequently
- failure or damage resulting from misuse, abuse, accident, modification, unsuitable physical or operating environment, natural disasters, power surges, improper maintenance, or use not in accordance with product information materials
- damage caused by non-authorized service provider
- failure of, or damage caused by, any third party products, including those that Lenovo may provide or integrate into the Lenovo product at your request
- any technical or other support, such as assistance with "how-to" questions and those regarding product set-up and installation
- products or parts with an altered identification label or from which the identification label has been removed

Limitation of Liability

Lenovo is responsible for loss or damage to your product only while it is in the Service Provider's possession or in transit, if the Service Provider is responsible for the transportation.

Neither Lenovo nor the Service Provider is responsible for loss or disclosure of any data, including confidential information, proprietary information, or personal information, contained in a product.

UNDER NO CIRCUMSTANCES, AND NOTWITHSTANDING THE FAILURE OF ESSENTIAL PURPOSE OF ANY REMEDY SET FORTH HEREIN, SHALL LENOVO, ITS AFFILIATES, SUPPLIERS, RESELLERS, OR SERVICE PROVIDERS BE LIABLE FOR ANY OF THE FOLLOWING EVEN IF INFORMED OF THEIR POSSIBILITY AND REGARDLESS OF WHETHER THE CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY OR OTHER THEORY OF LIABILITY: 1) THIRD PARTY CLAIMS AGAINST YOU FOR DAMAGES; 2) LOSS, DAMAGE OR DISCLOSURE OF YOUR DATA; 3) SPECIAL, INCIDENTAL, PUNITIVE, INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, BUSINESS REVENUE, GOODWILL OR ANTICIPATED SAVINGS. IN NO CASE SHALL THE TOTAL LIABILITY OF LENOVO, ITS AFFILIATES, SUPPLIERS, RESELLERS OR SERVICE PROVIDERS FOR DAMAGES FROM ANY CAUSE EXCEED THE AMOUNT OF ACTUAL DIRECT DAMAGES, NOT TO EXCEED THE AMOUNT PAID FOR THE PRODUCT.

THE FOREGOING LIMITATIONS DO NOT APPLY TO DAMAGES FOR BODILY INJURY (INCLUDING DEATH), DAMAGE TO REAL PROPERTY OR DAMAGE TO TANGIBLE PERSONAL PROPERTY FOR WHICH LENOVO IS LIABLE UNDER LAW.

AS SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Your Other Rights

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS ACCORDING TO THE APPLICABLE LAWS OF YOUR STATE OR JURISDICTION. YOU MAY ALSO HAVE OTHER RIGHTS UNDER A WRITTEN AGREEMENT WITH LENOVO. NOTHING IN THIS WARRANTY AFFECTS STATUTORY RIGHTS, INCLUDING RIGHTS OF CONSUMERS UNDER LAWS OR REGULATIONS GOVERNING THE SALE OF CONSUMER GOODS THAT CANNOT BE WAIVED OR LIMITED BY CONTRACT.

Part 2 – Country-specific Terms

Australia

"Lenovo" means Lenovo (Australia & New Zealand) Pty Limited ABN 70 112 394 411. Address: Level 10, North Tower, 1-5 Railway Street, Chatswood, NSW, 2067. Telephone: +61 2 8003 8200. Email: lensyd_au@lenovo.com

The following replaces the same section in Part 1:

What this Warranty Covers

Lenovo warrants that each hardware product that you purchase is free from defects in materials and workmanship under normal use and conditions during the warranty period. If the product fails due to a covered defect during the warranty period, Lenovo will provide you a remedy under this Limited Warranty. The warranty period for the product starts on the original date of purchase specified on your sales receipt or invoice unless Lenovo informs you otherwise in writing. The warranty period and type of warranty service that apply to your product are set forth below in Part 3 - Warranty Service Information.

THE BENEFITS GIVEN BY THIS WARRANTY ARE IN ADDITION TO YOUR RIGHTS AND REMEDIES AT LAW, INCLUDING THOSE UNDER THE AUSTRALIAN CONSUMER LAW.

The following replaces the same section in Part 1:

Replacement Products and Parts

When warranty service involves the replacement of a product or part, the replaced product or part becomes Lenovo's property and the replacement product or part becomes your property. Only unaltered Lenovo products and parts are eligible for replacement. The replacement product or part provided by Lenovo may not be new, but it will be in good working order and at least functionally equivalent to the original product or part. The replacement product or part shall be warranted for the balance of the period remaining on the original product. Products and parts presented for repair may be replaced by refurbished products or parts of the same type rather than being repaired. Refurbished parts may be used to repair the product; and repair of the product may result in loss of data, if the product is capable of retaining user-generated data.

The following is added to the same section in Part 1:

Use of Personal Contact Information

Lenovo will not be able to perform our service under this warranty if you refuse to provide your information or do not wish us to transfer your information to our agent or contractor. You have the right to access your personal contact information and request correction of any errors in it pursuant to the Privacy Act 1988 by contacting Lenovo.

The following replaces the same section in Part 1:

Limitation of Liability

Lenovo is responsible for loss or damage to your product only while it is in the Service Provider's possession or in transit, if the Service Provider is responsible for the transportation.

Neither Lenovo nor the Service Provider is responsible for loss or disclosure of any data, including confidential information, proprietary information, or personal information, contained in a product.

TO THE EXTENT PERMITTED BY LAW, UNDER NO CIRCUMSTANCES AND NOTWITHSTANDING THE FAILURE OF ESSENTIAL PURPOSE OF ANY REMEDY SET FORTH HEREIN, SHALL LENOVO, ITS AFFILIATES, SUPPLIERS, RESELLERS, OR SERVICE PROVIDERS BE LIABLE FOR ANY OF THE FOLLOWING EVEN IF INFORMED OF THEIR POSSIBILITY AND REGARDLESS OF WHETHER THE CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY OR OTHER THEORY OF LIABILITY: 1) THIRD PARTY CLAIMS AGAINST YOU FOR DAMAGES; 2) LOSS, DAMAGE OR DISCLOSURE OF YOUR DATA; 3) SPECIAL, INCIDENTAL, PUNITIVE, INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, BUSINESS REVENUE, GOODWILL OR ANTICIPATED

SAVINGS. IN NO CASE SHALL THE TOTAL LIABILITY OF LENOVO, ITS AFFILIATES, SUPPLIERS, RESELLERS OR SERVICE PROVIDERS FOR DAMAGES FROM ANY CAUSE EXCEED THE AMOUNT OF ACTUAL DIRECT DAMAGES, NOT TO EXCEED THE AMOUNT PAID FOR THE PRODUCT.

THE FOREGOING LIMITATIONS DO NOT APPLY TO DAMAGES FOR BODILY INJURY (INCLUDING DEATH), DAMAGE TO REAL PROPERTY OR DAMAGE TO TANGIBLE PERSONAL PROPERTY FOR WHICH LENOVO IS LIABLE UNDER LAW.

The following replaces the same section in Part 1:

Your Other Rights

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU ALSO HAVE OTHER RIGHTS AT LAW, INCLUDING UNDER THE AUSTRALIAN CONSUMER LAW. NOTHING IN THIS WARRANTY AFFECTS STATUTORY RIGHTS OR RIGHTS AT LAW, INCLUDING RIGHTS THAT CANNOT BE WAIVED OR LIMITED BY CONTRACT.

For example, our products come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the products repaired or replaced if the products fail to be of acceptable quality and the failure does not amount to a major failure.

New Zealand

The following is added to the same section in Part 1:

Use of Personal Information

Lenovo will not be able to perform our service under this warranty if you refuse to provide your information or do not wish us to transfer your information to our agent or contractor. You have the right to access your personal information and request correction of any errors in it pursuant to the Privacy Act 1993 by contacting Lenovo (Australia & New Zealand) Pty Limited ABN 70 112 394 411. Address: Level 10, North Tower, 1-5 Railway Street, Chatswood, NSW, 2067. Telephone: 61 2 8003 8200. Email: lensyd_au@lenovo.com

Bangladesh, Cambodia, India, Indonesia, Nepal, Philippines, Vietnam and Sri Lanka

The following is added to Part 1:

Dispute Resolution

Disputes arising out of or in connection with this warranty shall be finally settled by arbitration held in Singapore. This warranty shall be governed, construed and enforced in accordance with the laws of Singapore, without regard to conflict of laws. If you acquired the product in India, disputes arising out of or in connection with this warranty shall be finally settled by arbitration held in Bangalore, India. Arbitration in Singapore shall be held in accordance with the Arbitration Rules of Singapore International Arbitration Center ("SIAC Rules") then in effect. Arbitration in India shall be held in accordance with the laws of India then in effect. The arbitration award shall be final and binding on the parties without appeal. Any award shall be in writing and set forth the findings of fact and the conclusions of law. All arbitration proceedings, including all documents presented in such proceedings shall be conducted in the English language. The English language version of this warranty prevails over any other language version in such proceedings.

European Economic Area (EEA)

The following is added to Part 1:

Customers in the EEA may contact Lenovo at the following address: EMEA Service Organization, Lenovo (International) B.V., Floor 2, Einsteinova 21, 851 01, Bratislava, Slovakia. Service under this warranty for

Lenovo hardware products purchased in EEA countries may be obtained in any EEA country in which the product has been announced and made available by Lenovo.

Russia

The following is added to Part 1:

Product Service Life

The product service life is four (4) years from the original date of purchase.

Part 3 - Warranty Service Information

Product Type	Country or Region of Purchase	Warranty Period	Type of Warranty Service
81F1	Mainland China	- Parts and labor - 2 years * - Battery pack - 1 year	1, 4
	Australia, United Kingdom, France, Germany, Italy, Denmark, Finland, Spain, Estonia, Sweden, Norway	- Parts and labor - 1 year - Battery pack - 1 year	1, 3
	USA, Canada, Japan		1, 3, 5
	Mexico		1, 3, 4

Note: The warranty period for Lenovo Pen is 1 year.

If required, the Service Provider will provide repair or exchange service depending on the type of warranty service specified for your product and the available service. Scheduling of service will depend upon the time of your call, parts availability, and other factors.

Types of Warranty Service

1. Customer Replaceable Unit (“CRU”) Service

Under CRU Service, the Service Provider will ship CRUs to you at its cost for installation by you. CRU information and replacement instructions are shipped with your product and are available from Lenovo at any time upon request. CRUs that are easily installed by you are called “Self-service CRUs.” “Optional-service CRUs” are CRUs that may require some technical skill and tools. Installation of Self service CRUs is your responsibility. You may request that a Service Provider install Optional-service CRUs under one of the other types of warranty service designated for your product. An optional service offering may be available for purchase from a Service Provider or Lenovo under which Self-service CRUs would be installed for you. You may find a list of CRUs and their designation in the publication that was shipped with your product or at www.lenovo.com/CRUs. The requirement to return a defective CRU, if any, will be specified in the instructions shipped with a replacement CRU. When return is required: 1) return instructions, a prepaid return shipping label, and a container will be included with the replacement CRU; and 2) you may be charged for the replacement CRU if the Service Provider does not receive the defective CRU from you within thirty (30) days of your receipt of the replacement CRU.

2. On-site Service

Under On-Site Service, a Service Provider will either repair or exchange the product at your location. You must provide a suitable working area to allow disassembly and reassembly of the product. Some repairs may

need to be completed at a service center. If so, the Service Provider will send the product to the service center at its expense.

3. Courier or Depot Service

Under Courier or Depot Service, your product will be repaired or exchanged at a designated service center, with shipping at the expense of the Service Provider. You are responsible for disconnecting the product and packing it in a shipping container provided to you to return your product to a designated service center. A courier will pick up your product and deliver it to the designated service center. The service center will return the product to you at its expense.

4. Customer Carry-In Service

Under Customer Carry-In Service, your product will be repaired or exchanged after you deliver it to a designated service center at your risk and expense. After the product has been repaired or exchanged, it will be made available to you for collection. If you fail to collect the product, the Service Provider may dispose of the product as it sees fit, with no liability to you.

5. Mail-In Service

Under Mail-In Service, your product will be repaired or exchanged at a designated service center after you deliver it at your risk and expense. After the product has been repaired or exchanged, it will be returned to you at Lenovo's risk and expense, unless the Service Provider specifies otherwise.

6. Customer Two-Way Mail-In Service

Under Customer Two-Way Mail-In Service, your product will be repaired or exchanged after you deliver it to a designated service center at your risk and expense. After the product has been repaired or exchanged, it will be made available to you for return shipping at your risk and expense. If you fail to arrange return shipment, the Service Provider may dispose of the product as it sees fit, with no liability to you.

7. Product Exchange Service

Under Product Exchange Service, Lenovo will ship a replacement product to your location. You are responsible for its installation and verification of its operation. The replacement product becomes your property in exchange for the failed product, which becomes the property of Lenovo. You must pack the failed product in the shipping carton in which you received the replacement product and return it to Lenovo. Transportation charges, both ways, shall be at Lenovo's expense. If you fail to use the carton in which the replacement product was received, you may be responsible for any damage to the failed product occurring during shipment. You may be charged for the replacement product if Lenovo does not receive the failed product within thirty (30) days of your receipt of the replacement product.

Trademarks

Lenovo is a trademark of Lenovo in the United States, other countries, or both.

Microsoft, OneNote, Windows, Windows Hello, and Windows Ink are trademarks of the Microsoft Corporation.

Other company, product, or service names may be trademarks or service marks of others.

