

**ThinkPad**

# ThinkPad 10 User Guide



## Welcome

Before using your tablet and this user guide, be sure to read the *Safety, Warranty, and Setup Guide* that comes with your tablet.

Lenovo® makes constant improvement on the documentation of your tablet. To get all the latest documents, go to:

<http://www.lenovo.com/UserManuals>

**Note:** Your tablet might look slightly different from illustrations in this user guide.

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## Read this first – important safety and handling information



Before using your ThinkPad® 10 (referred to as the tablet in this document), read all the information in this section. Reading the safety and handling information first helps you avoid the risk of personal injury, property loss, or accidental damage to your tablet.

For additional tips to help you operate the tablet safely, go to:  
<http://www.lenovo.com/safety>

This information can help you safely use your tablet. Follow and retain all information included with your tablet. The information in this document does not alter the terms of your purchase agreement or the Lenovo Limited Warranty. For more information, see “Warranty Information” in the *Safety, Warranty, and Setup Guide* that comes with your tablet.

Customer safety is important. Our products are developed to be safe and effective. However, tablets 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 tablet work environment.

**Note:** This information includes references to power adapters and batteries. In addition to tablets, 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, tablet products contain a coin-sized internal battery that provides power to the system clock even when the tablet is unplugged, so the battery safety information applies to all tablet 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, see the following Web site:**

<http://www.lenovo.com/support/phone>

**Frequently inspect your tablet 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 tablet product, the power cord, or power adapter.
- The 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.

***Prevent your tablet and adapter from getting wet:***

Do not immerse your tablet in water or leave it in a location where it can get saturated with water or other liquids.

***Protect yourself from the heat generated by your tablet:***

When your tablet is turned on or the battery is charging, some parts might become hot. The temperature that they reach depends on the amount of system activity and the level of charge in the battery. Extended contact with your body, even through clothing, could cause discomfort or even a skin burn. Avoid keeping your hands, your lap, or any other part of your body in contact with a hot section of the tablet for any extended time.

***Protect yourself from the heat generated by the ac power adapter:***

When the ac power adapter is connected to an electrical outlet and your tablet, it generates heat. Extended contact with your body, even through clothing, may cause a skin burn. Do not place the ac power adapter in contact with any part of your body while it is in use. Never use it to warm your body.

***Protect the cables from being damaged:***

Applying strong force to cables may damage or break them. Route communication lines, or the cables of an ac power adapter, a mouse, a keyboard, a printer, or any other electronic device, so that they cannot be walked on, tripped over, pinched by your tablet or other objects, or in any way subjected to treatment that could interfere with the operation of your tablet.

***Prevent hearing damage:***

Your tablet has a combo audio connector that you can use for headphones (also called a headset) 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 tablet complies with EN 50332-2 Sub clause 7. This specification limits the tablet'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 tablet came with headphones or earphones in the package, as a set, the combination of the headphones or earphones and the tablet 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.

***Carry your tablet carefully:***

Use a quality carrying case that provides adequate cushioning and protection. Do not pack your tablet in a tightly packed suitcase or bag. Before putting your tablet in a carrying case, make sure that it is off, in sleep mode, or in hibernation mode. Do not put a tablet in a carrying case while it is on.

***Handle your tablet with care:***

Do not drop, bend, puncture, insert foreign objects into, or place heavy objects on your tablet. Sensitive components inside might get damaged.

Your tablet screen is made of glass. The glass might break if the tablet is dropped on a hard surface, is the subject of a high impact, or is crushed by a heavy object. If the glass chips or cracks, do not touch the broken glass or attempt to remove it from the tablet. Stop using the tablet immediately and contact Lenovo technical support for repair, replacement, or disposal information.

***Take care when using your tablet in a motor vehicle or on a bicycle:***

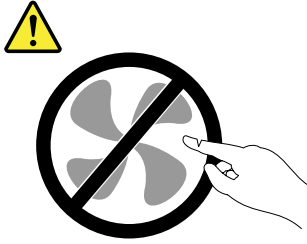
Always prioritize your safety and the safety of others. Follow the law. Local laws and regulations might govern how you can use mobile electronic devices, such as your tablet, while you drive a motor vehicle or ride a bicycle.

***Service and upgrades***

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

**Note:** Some tablet 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 Lenovo Customer Support Center.

Although there are no moving parts in your tablet 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.**

***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 mm<sup>2</sup>, 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.**

**Always connect power cords and signal cables in the correct order and 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.**

***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.



## *Plugs and outlets*



If a receptacle (power outlet) that you intend to use with your tablet 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 tablet, 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.

## *External devices*

### **CAUTION:**

Do not connect or disconnect any external device cables other than USB cables while the tablet power is on; otherwise, you might damage your tablet. To avoid possible damage to attached devices, wait at least five seconds after the tablet is shut down to disconnect external devices.

## Electrical current safety information



Electric current from power, telephone, and communication cables is hazardous.

To avoid a shock hazard:

- Do not use your tablet during a lightning storm.
- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration 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.
- Do not use your tablet until all internal parts enclosures are fastened into place. Never use the tablet 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 tablet.

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



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.

### *General battery notice*



**DANGER**

Batteries supplied by Lenovo for use with your product have been tested for compatibility and should only be replaced with approved parts. A battery other than the one specified by Lenovo, or a disassembled or modified battery is not covered by the warranty.

Battery abuse or mishandling can cause overheating, liquid leakage, or an explosion. To avoid possible injury, do the following:

- Do not open, disassemble, or service any battery.
- Do not crush or puncture the battery.
- Do not short-circuit the battery, or expose it to water or other liquids.
- Keep the battery away from children
- Keep the battery away from fire.

Stop using the battery if it is damaged, or if you notice any discharge or the buildup of foreign materials on the battery leads.

Store the rechargeable batteries or products containing the rechargeable batteries at room temperature, charged to approximately 30 to 50% of capacity. We recommend that the batteries be charged about once per year to prevent overdischarge.

Do not put the battery in trash that is disposed of in landfills. When disposing of the battery, comply with local ordinances or regulations.

### *Notice for built-in rechargeable battery*



**DANGER**

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 built-in rechargeable battery strictly according to instructions included in the product documentation.

The Lenovo-authorized repair facilities or technicians recycle Lenovo batteries according to local laws and regulations.

### *Notice for non-rechargeable coin-cell battery*



**DANGER**

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

Do not put the battery in trash that is disposed of in landfills. When disposing of the battery, comply with local ordinances or regulations. The Lenovo-authorized repair facilities or technicians recycle Lenovo batteries according to local laws and regulations.

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

**California Perchlorate Information:**

**Products containing manganese dioxide lithium coin-cell batteries may contain perchlorate.**

**Perchlorate Material - special handling may apply, See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)**

***Use supported charging methods only:***

To recharge the internal battery of your tablet safely, see “Charging the tablet” on page 10.

**Attention:** Use only Lenovo-approved ac power adapters and power cords. Unauthorized ac power adapters and power cords could severely damage the tablet.

Charging devices might become warm during normal use. Ensure that you have adequate ventilation around the charging device. Unplug the charging device if any of the following occurs:

- The charging device has been exposed to rain, liquid, or excessive moisture.
- The charging device shows signs of physical damage.
- You want to clean the charging device.

Lenovo is not responsible for the performance or safety of products not manufactured or approved by Lenovo.

***Keep your tablet and accessories away from small children:***

Your tablet contains small parts that can be a choking hazard to small children. Additionally, the glass screen can break or crack if dropped on or thrown against a hard surface.

***Protect your data and software:***

Do not delete unknown files or change the name of files or directories that you created; otherwise, your tablet software might fail to work.

Be aware that accessing network resources can leave your tablet vulnerable to viruses, hackers, spyware, and other malicious activities that might damage your tablet, software, or data. It is your responsibility to ensure that you have adequate protection in the form of firewalls, antivirus software, and anti-spyware software and keep this software up to date.

Keep electrical appliances such as an electric fan, radio, high-powered speakers, air conditioner, and microwave oven away from your tablet. The strong magnetic fields generated by these appliances can damage the screen and the data on the tablet.

***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 a trained service personnel.**

***Plastic bag notice***



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

***Polyvinyl Chloride (PVC) cable and cord notice***

Many tablet products and accessories contain cords, cables or wires, such as power cords or cords to connect the accessory to a tablet. If this product has such a cord, cable or wire, then the following warning applies:

**WARNING:** Handling the cord on this product or cords associated with accessories sold with this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. ***Wash hands after handling.***

***Dispose according to local laws and regulations:***

When your tablet reaches the end of its useful life, do not crush, incinerate, immerse in water, or dispose of your tablet in any manner contrary to local laws and regulations. Some internal parts contain substances that can explode, leak, or have an adverse environmental affect if disposed of incorrectly.

See “WEEE and recycling information” on page 43 for additional information.



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## Chapter 1. Meeting ThinkPad 10

Get an overview of the tablet, such as the connectors, indicators, features, specifications, and operating environment.

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### In the box

Your shipping box contains the following items. Depending on the model, your tablet might come with one or more of the accessories. If your tablet does not come with some of the accessories, you can purchase them from a Lenovo reseller or from the Lenovo Web site at:

<http://www.lenovo.com/essentials>

#### Standard items



ThinkPad 10



ThinkPad Active Pen



Power cord and ac power adapter



Documentation

#### Optional items (available on some models)



ThinkPad 10 Ultrabook™  
Keyboard



ThinkPad 10 Quickshot  
Cover



USB pen holder

## Controls and connectors



1

3 Microphones

Camera-status indicator

5 Volume-control buttons

7 Micro-SIM-card tray\*

9 USB 3.0 connector with cover

11 Windows® home control

2

Front camera

4 Audio connector

6 Micro-SD-card reader

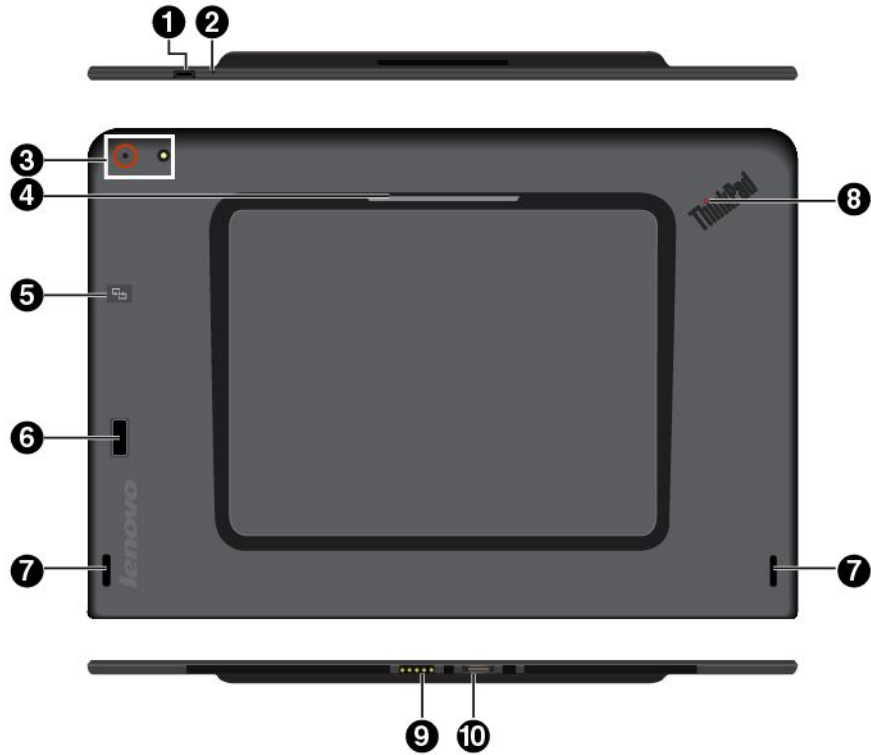
8 Micro HDMI™ connector

10 Power connector

12 Security-lock slot

\* Available on some models





**Note:** Your tablet might look slightly different from this illustration.

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>❶ Power button</li> <li>❸ Rear camera and flash light</li> <li>NFC touchpoint*</li> <li>❺ Speakers</li> <li>❽ Keyboard connector</li> <li>❹</li> </ul> | <ul style="list-style-type: none"> <li>❷ Emergency-reset hole</li> <li>Smart card reader*</li> <li>❹ Fingerprint reader*</li> <li>❻ System status indicator</li> <li>❽ Dock connector</li> <li>❿</li> </ul> |
|---|---|

\* Available on some models

## System status indicator



- **Blinks three times:** The tablet is initially connected to a power source.
- **On:** The tablet is on and in use.
- **Off:** The tablet is off, in sleep mode, or in hibernation mode.

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## Features and Specifications of ThinkPad 10

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<b>Size</b>	<ul style="list-style-type: none"><li>• Width: 256.5 mm (10.1 inches)</li><li>• Depth: 177 mm (7 inches)</li><li>• Max thickness: 17.1 mm (0.67 inch)</li><li>• Max weight: 0.66 kg (1.45 lb)</li></ul>
<b>Microprocessor</b>	To view the microprocessor information, do the following: <ol style="list-style-type: none"><li>1. Swipe in from the right edge of the screen to display the charms.</li><li>2. Tap <b>Settings</b> → <b>PC info</b>.</li></ol>
<b>Operating system</b>	Microsoft® Windows 8.1
<b>Memory</b>	To view the memory information, do the following: <ol style="list-style-type: none"><li>1. Swipe in from the right edge of the screen to display the charms.</li><li>2. Tap <b>Settings</b> → <b>PC info</b>.</li></ol>
<b>Storage</b>	Embedded MultiMediaCard (eMMC)
<b>Display</b>	<ul style="list-style-type: none"><li>• Size: 256.5 mm (10.1 inches)</li><li>• Screen resolution: 1920 x 1200 pixels</li><li>• Automatic brightness control (ambient light sensor)</li><li>• Anti-fingerprint, light-emitting diode (LED) backlight</li><li>• Multi-touch technology</li></ul>
<b>Cameras</b>	<ul style="list-style-type: none"><li>• Front camera, 1.2 megapixels</li><li>• Rear camera, 5 megapixels, auto-focus</li></ul>
<b>Connectors</b>	<ul style="list-style-type: none"><li>• Combo audio connector</li><li>• Dock connector</li><li>• Keyboard connector</li><li>• Micro HDMI connector</li><li>• Power connector</li><li>• USB 3.0 connector</li></ul>
<b>Card readers and slots</b>	<ul style="list-style-type: none"><li>• Micro-SD-card reader</li><li>• Micro-SIM-card tray (available on some models)</li><li>• Smart card reader (available on some models)</li></ul>
<b>Security features</b>	<ul style="list-style-type: none"><li>• Security-lock slot</li><li>• Password</li><li>• Fingerprint reader (available on some models)</li></ul>
<b>Battery</b>	32 Wh Li-Polymer battery
<b>Wireless features</b>	<ul style="list-style-type: none"><li>• Bluetooth 4.0</li><li>• Wireless LAN</li><li>• NFC (available on some models)</li><li>• Wireless WAN (available on some models)</li></ul>
<b>Power source (ac power adapter)</b>	<ul style="list-style-type: none"><li>• Sine-wave input at 50 Hz to 60 Hz</li><li>• Input rating of the ac power adapter: 100 V ac to 240 V ac</li></ul>

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## Operating environment

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**Maximum altitude without pressurization** 5000 m (16 404 ft)

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**Temperature**

- At altitudes up to 2438 m (8000 ft)  
Operating: 5.0°C to 35.0°C (41°F to 95°F)  
Storage: 5.0°C to 43.0°C (41°F to 109°F)
  - At altitudes above 2438 m (8000 ft)  
Maximum temperature when operating under unpressurized conditions:  
31.3°C (88°F)
- 

**Relative humidity**

- Operating: 8% to 95%
- Storage: 5% to 95%

If possible, place your tablet in a dry, well-ventilated area without direct exposure to sunshine. Do not use or store your tablet in dusty, dirty areas, or extremely hot or cold areas.

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## Chapter 2. Getting Started

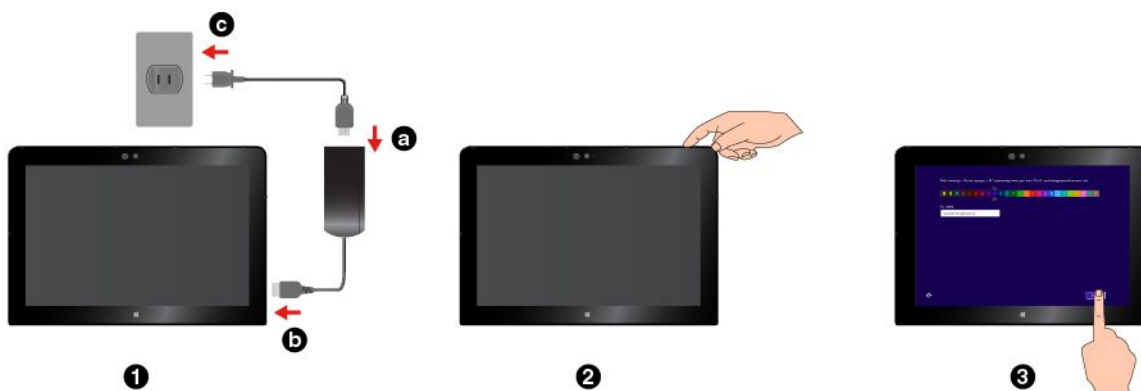
Learn the basics to get started with your ThinkPad tablet. Follow the instructions to set up your tablet, use the multi-touch screen, connect to a network, and put your tablet into proper power modes.

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### Setting up your tablet

When you use the tablet for the first time, do the following to complete the initial setup:

- 1 Connect your tablet to ac power (steps **a** to **c** as shown).
- 2 Press the power button to turn on the tablet.
- 3 Follow the instructions on the screen to complete the initial setup.

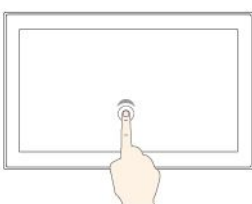


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### Using the multi-touch screen

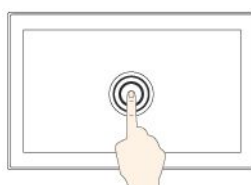
Use the following gestures to interact with your tablet.

**Note:** Some gestures are supported only on certain apps.



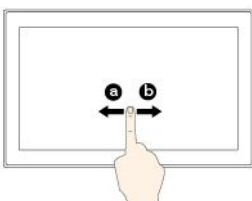
#### Tap

Tap on the screen to open an app or perform an action on an open app.



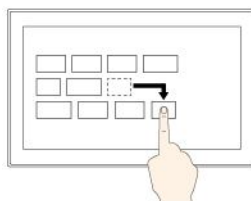
#### Tap and hold

Tap and hold on the screen to open a menu with multiple options.



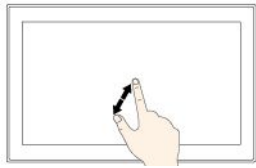
#### Slide

Slide leftward or rightward on the screen to scroll through items, such as lists, pages, and photos.



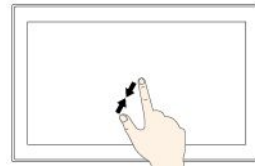
#### Drag

Drag an item to the desired location to move an object.



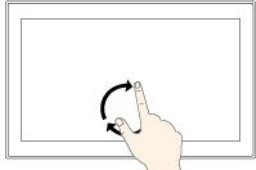
### Zoom in

Put two fingers on the screen and move them farther apart to zoom in.



### Zoom out

Put two fingers on the screen and move them closer together to zoom out.



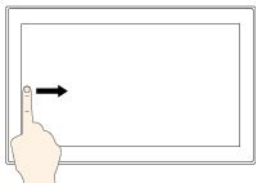
### Rotate

Put two or more fingers on an item, and then rotate your fingers clockwise or counterclockwise.



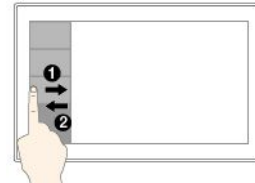
### Swipe in from the right edge

Display the charms that contain system commands, such as **Start**, **Settings**, **Search**, **Share**, and **Devices**.



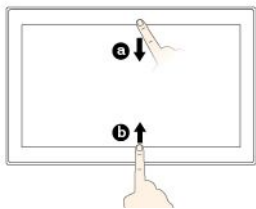
### Swipe in from the left edge

Cycle through open apps and switch to the one you want.



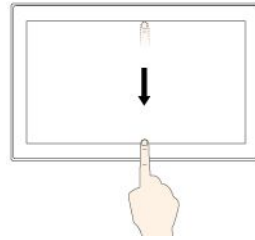
### Swipe in and out on the left edge

View a list of the recently used apps.



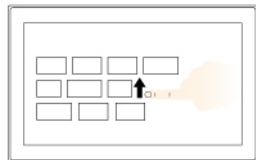
### Swipe in from the top or bottom edge

View the app commands, such as **Copy**, **Save**, and **Delete**, depending on the app.



### Swipe in from the top edge to the bottom

Close the current app.



### Swipe up to the top edge

View all apps on the Start screen.

## Tips on using the multi-touch screen

- The multi-touch screen is a glass panel covered with a plastic film. Do not apply pressure or place any metallic object on the screen that might damage the touch panel or cause it to malfunction.
- Do not use fingernails, gloved fingers, or inanimate objects other than an approved ThinkPad Active Pen for input on the screen.

## Tips on cleaning the multi-touch screen

- Turn off the tablet before cleaning the multi-touch screen.
- Use a dry, soft, and lint-free cloth or a piece of absorbent cotton to remove fingerprints or dust from the multi-touch screen. Do not apply solvents to the cloth.
- Gently wipe the screen using a top-down motion. Do not apply any pressure on the screen.

---

## Using a wireless network

Connect your tablet to the Internet or other local area networks so that you can browse on your tablet and share information.

Your tablet might support the following wireless networks:

- **Wi-Fi network**


The Wi-Fi feature provides network access at distances of up to 100 meters (328 feet) depending on the Wi-Fi router and your surroundings. The quality of the Wi-Fi signal is affected by the number of connected devices, the infrastructure, and the objects through which the signal is transmitted.

- **Mobile broadband network** (available on some models)

The mobile broadband network feature enables you to connect to the Internet from any location where cellular service is available. To achieve this, mobile broadband connections use 3G, 4G, or LTE cellular and mobile networks, just as phones do.

A micro SIM card or an external mobile broadband device is required to connect to a mobile broadband network. For instructions on replacing or installing a micro SIM card, see “*To replace or install a micro SIM card:*” on page 10.

### **To join a wireless network:**

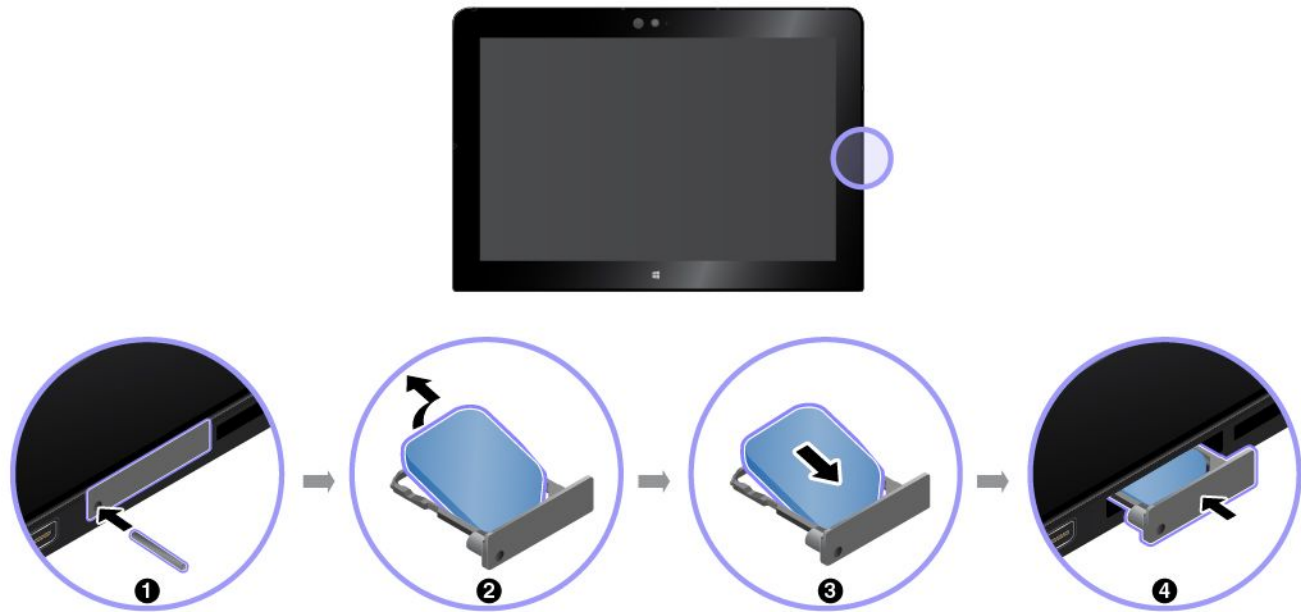
1. Swipe in from the right edge of the screen to display the charms.
2. Open the **Settings** charm and tap the wireless-network icon . A list of available wireless networks is displayed.

**Note:** If the **Wi-Fi** switch or **Mobile broadband** switch is off, the list might not be displayed. Slide the switch to **On** to display the list.

3. Tap a network to join it. For secured networks, enter the valid password when prompted.


**To replace or install a micro SIM card:**

- 1 Turn off the tablet. Insert a straightened paper clip into the hole of the micro-SIM-card tray. The micro-SIM-card tray ejects.
  - 2 Gently pull out the micro-SIM-card tray. If a micro-SIM card is installed in the tray, take out the micro SIM card. If no micro SIM card is installed in the tray, skip this step.
  - 3 Install a new micro SIM card into the tray. Ensure that the new micro SIM card is installed in correct orientation.
- Insert the tray into the tablet. Turn on the tablet.



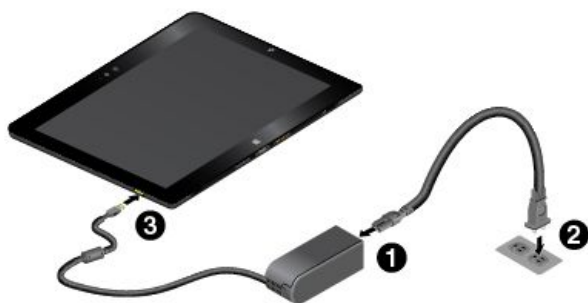
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## Charging the tablet

Check the battery-status icon  in the Windows notification area and charge the battery if the battery power remaining is low.

**To charge the tablet:**

**Attention:** Use only Lenovo-approved ac power adapters and power cords. Unauthorized ac power adapters and power cords could severely damage the tablet.



- 1 Connect the power cord to the ac power adapter.
- 2 Connect the power cord to a proper electric outlet.
- 3 Connect the ac power adapter to the power connector of your tablet.



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## Power button and power modes

If you are not going to use the tablet for a period of time, put the tablet into sleep mode or turn off the tablet to save power.

### ***Putting the tablet into sleep mode***

If you are not going to use the tablet for a few minutes, put your tablet into sleep mode to lock it and save power.

To achieve this, do the following:

1. Swipe in from the right edge of the screen to display the charms.
  2. Open the Settings charm then tap **Power → Sleep**.
- Press the power button on your tablet.
  - Swipe in from the right edge of the screen to display the charms. Open the Settings charm then tap **Power → Sleep**.

### ***Waking up your tablet from sleep mode***

To wake up your tablet from sleep mode, press the power button on the tablet.

### ***Turning off your tablet***

If you are not going to use the tablet for an extended period of time, turn off your tablet to save power.

To turn off your tablet, do the following:

1. Swipe in from the right edge of the screen to display the charms.
2. Open the Settings charm then tap **Power → Shut down**.

### ***Turning on your tablet***


To turn on your tablet, press the power button on the tablet.

### ***Managing the power modes***

You can manage the power modes. For example, you can:

- Define the power button so that by pressing the power button you can shut down the tablet.
- Define when the tablet goes into sleep mode.

To manage the power modes, do the following:

1. Go to the desktop and tap the battery-status icon  in the Windows notification area.
2. Tap **More power options** and then make the desired changes following the instructions on the screen.



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## Chapter 3. Using your tablet

Learn the skills to make the best use of your tablet such as using Lenovo apps, connecting a near-field-communication (NFC) device, and using the fingerprint reader.


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### Registering your tablet

Register your tablet with Lenovo, so that you can get the following benefits:

- Notification of a recall or other severe problem
- Quicker service when you call Lenovo for help
- Automatic notification of free software and special promotional offers
- Other extended privileges and services provided in some locations

**To register your tablet with Lenovo, do one of the following:**

- Use Lenovo Companion . For information about accessing Lenovo Companion, see Lenovo apps.
- Go to <http://www.lenovo.com/register> and follow the instructions on the screen.

---

### About using the Windows 8.1 operating system

Your tablet is preinstalled with the Windows 8.1 operating system. Lenovo provides the *Getting Started with Windows 8.1* booklet to help you learn the basics of this operating system.

This booklet comes with your tablet and provides instructions like:

- How to use the Start screen
- How to use the charms
- How to use the multi-touch gestures

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### Lenovo apps

Lenovo provides the following apps to help you work more easily and securely.

**Note:** Preinstalled Lenovo apps might be subject to change. To explore more Lenovo apps, go to: <http://www.lenovo.com/support>

**To access Lenovo apps:**

1. Swipe up from the Start screen to display the Apps screen.
2. Tap a Lenovo app to open it. If the app you want is not displayed, try searching for it in the search box.



#### **Lenovo Companion**

Your system's best features should be easy to access and understand. With Lenovo Companion, they are. This app is filled with exclusive Lenovo content to help you learn about your new system.



#### **Lenovo Settings**

This app enhances your computing experience by enabling you to configure camera and microphone settings, optimize power settings, and create and manage multiple network profiles.



#### **Lenovo Solution Center**

This app enables you to troubleshoot and resolve tablet problems. It combines diagnostic tests, system information collection, security status, and support information, along with hints and tips.



#### **REACHit**

REACHit enables you to manage all your files, no matter where they are stored, inside one single app. Connect your devices along with multiple cloud storage accounts for a simpler and faster way to access your stuff.



#### **System Update**

This app enables you to keep the software on your tablet up-to-date by downloading and installing software packages, including Lenovo apps, device drivers, and other third-party programs.



#### **SHAREit**

SHAREit enables you to share files easily and rapidly across devices even without any Internet connection.



#### **WRITEit**

WRITEit gives you instant handwriting input wherever you need it. You can write directly in any app and text field, edit text in real-time, see your full screen, and convert your handwriting into digital text.

---

## Using an external display

Connect your tablet to an external display to share a presentation or work with multiple applications.

### **Connecting to a wireless display**

To connect to a wireless display, do the following:

1. Swipe in from the right edge of the screen to display the charms.
2. Tap **Devices** → **Project** → **Add a wireless display**.
3. Choose a desired display in the found-devices list, and follow the instructions on the screen to finish the connection.

### **Connecting to a wired display**

Your tablet has a micro HDMI connector. You can connect the tablet to an external display through a proper adapter.

### **Choosing a display mode**

You can display your desktop and apps on the tablet, the external display, or both.

To choose how to display the video output, do the following:

1. Swipe in from the right edge of the screen to display the charms.
2. Tap **Devices** → **Project** → **Second screen**.
3. Tap to select a presentation scheme.

---

## Pairing your tablet with an NFC device

Near field communication (NFC) is a high-frequency and short-range wireless communications technology. By using the NFC feature, you can establish radio communications between your tablet and another

NFC-enabled device over a distance no more than a few centimeters. Some Lenovo apps are using the NFC feature. Depending on the model, your tablet might come with the NFC feature.

### **To pair your tablet with an NFC card:**



❶ Align the card with the extension line of the camera center as shown. Ensure that the card is in NFC Data Exchange Format (NDEF), otherwise the card cannot be detected.

**Attention:** Before handling the NFC card, touch a metal table or a grounded metal object. Otherwise the card might get damaged by the static electricity from your body.

❷ Move the card within a 5 mm (0.20 inch) distance to the right of the extension line. Then hold the card for seconds until you are prompted that the card has been successfully detected.

For information about data transfer, refer to the documentation of the NFC card.

### **To pair your tablet with an NFC-enabled smartphone:**



❶ Align the smartphone with the extension line of the camera flash center as shown. Ensure that the smartphone screen is facing upward.

❷ Move the smartphone within a 15 mm (0.6 inch) distance to the right of the extension line. Then hold the smartphone for seconds until you are prompted that the smartphone has been successfully detected.

**Attention:** During the data transfer, do not put your tablet or NFC-enabled smartphone into sleep or hibernation mode; otherwise, your data could get damaged.

For information about data transfer, refer to the documentation of the smartphone.

### **Enabling the NFC feature**

In case that the NFC feature of your tablet is disabled, do the following to enable the NFC feature:

1. Swipe in from the right edge of the screen to display the charms.
2. Tap **Settings** → **Change PC settings** → **Network** → **Airplane mode**.
3. Slide the **NFC** control to the right to enable the NFC feature.

If you still cannot enable the NFC feature, check the **NFC** setting in the ThinkPad Tablet Setup program by doing the following:

1. Start the ThinkPad Tablet Setup program. See “ThinkPad Tablet Setup program” on page 27.
2. Tap **Security** → **I/O Port Access**.
3. Set the **NFC** option to **On**.

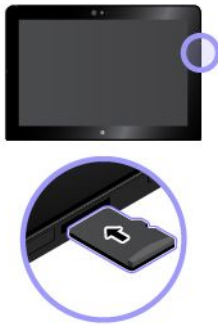
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## **Using a micro-SD card**

Your tablet has a micro-SD-card reader that supports the following types of cards:

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

### To install a micro SD card:



Hold the card with the metal contacts facing down and pointing toward the tablet. Insert the card into the micro-SD-card reader until you hear a click.

**Attention:** Before handling the micro-SD card, touch a metal table or a grounded metal object. Otherwise the card might get damaged by the static electricity from your body.

### To remove the micro SD card:



**1** Push the micro SD card inward a little until you hear a click. The micro SD card ejects.

**Attention:** Before handling the micro-SD card, touch a metal table or a grounded metal object. Otherwise the card might get damaged by the static electricity from your body.

**2** Gently slide the card out of the card slot.

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## Using a smart card

Your tablet might come with a smart card reader. Generally, smart cards provide authentication, data storage, and application processing. Smart cards also might provide strong security authentication for single sign-on (SSO) within large organizations.

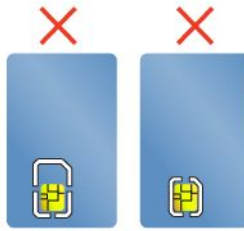
### Supportable smart card type

The smart card reader on your tablet only supports the smart card of the following specifications:

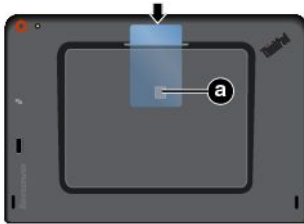


- Length: 85.60 mm (3.37 inches)
- Width: 53.98 mm (2.13 inches)
- Thickness: 0.76 mm (0.03 inch)

**Attention:** Do not insert smart cards with slits into your tablet. Otherwise, the smart card reader might get damaged.



### To install a smart card:



Hold the card with the metal contacts **a** facing downward and pointing toward the smart card reader. Insert the card into the smart card reader as shown.

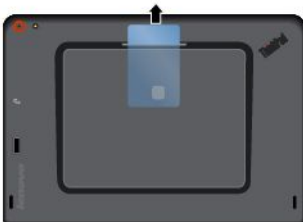
#### Attention:

- Before handling the smart card, touch a metal table or a grounded metal object. Otherwise the card might get damaged by the static electricity from your body.
- During the data transfer, do not put your tablet into sleep or hibernation mode; otherwise, your data could get damaged.

### To enable the plug-and-play feature:

1. Go to Control Panel.
2. Tap **Hardware and Sound**.
3. Tap **Device Manager**. If you are prompted for an administrator password or confirmation, type the password or provide confirmation.
4. From the **Action** menu, tap **Add legacy hardware**. The Add Hardware Wizard starts.
5. Follow the instructions on the screen.

### To remove a smart card:



Tap and hold the **Safely Remove Hardware and Eject Media** icon in the Windows notification area and select the smart card that you want to remove. Pull the card a little bit outward first. Then slide the card completely out of the slot as shown.

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## Using the fingerprint reader

Depending on the model, your tablet might have a fingerprint reader. With fingerprint authentication, you can log on to your tablet by swiping your fingerprints instead of entering the password.

### Enrolling your fingerprints

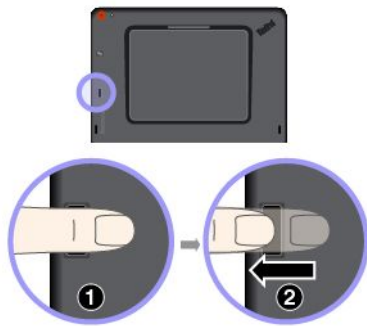
To enable fingerprint authentication, enroll your fingerprints first by doing the following:

1. Swipe in from the right edge of the screen to display the charms.
2. Tap **Settings** → **Change PC settings** → **Accounts** → **Sign-in options**.
3. In the **Fingerprint** section, tap **Add**. The “Add a fingerprint to this account” window is displayed.

4. Enter the Windows password as required. Then follow the instructions on the screen to enroll your fingerprint.

**Note:** It is recommended that you enroll more than one fingerprint in case of any injuries to your fingers.

When you swipe your finger over the fingerprint reader, note the following:



- 1 Place the top joint of your finger on the sensor.
- 2 Apply light pressure and swipe your finger across the reader in one smooth motion. Do not lift your finger when you are swiping it.

### ***Tips on using the fingerprint reader***

- The following actions could damage the fingerprint reader or cause it to malfunction:
  - Scratching the surface of the reader with a hard and pointed object
  - Scraping the surface of the reader with your fingernail or anything hard
  - Using or touching the reader with a dirty finger
- You might not be able to register or authenticate your fingerprints in the following situations:
  - Your finger is wrinkled.
  - Your finger is rough, dry, or injured.
  - Your finger is stained with dirt, mud, or oil.
  - Your finger is wet.
  - You used a finger that had not been enrolled.

To resolve the problem, try the following:

- Clean or wipe your hands to remove any excess dirt or moisture from the fingers.
- Enroll and use a different finger for authentication.
- If your hands are dry, apply lotion to them.
- If you notice any of the following conditions, gently clean the surface of the reader with a dry, soft, and lint-free cloth:
  - The surface of the reader is dirty or stained.
  - The surface of the reader is wet.
  - The reader often fails to enroll or authenticate your fingerprint.

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## **Using passwords**

You can set a supervisor password to prevent your tablet from unauthorized use.

Supervisor password protects the system information stored in ThinkPad Tablet Setup. Without the supervisor password, no one can change the configuration of the tablet.



The system administrator can set the same supervisor password on many tablets to make administration easier. It is recommended that you record your password and store it in a safe place. If you forget your supervisor password, Lenovo cannot reset your password. You must take your tablet to a Lenovo reseller or a Lenovo marketing representative to have the system board replaced. Proof of purchase is required, and a fee will be charged for parts and service.

### **To set, change, or remove a password**

**Note:** Before you start, print these instructions and the instructions on “ThinkPad Tablet Setup program” on page 27. You also can screen-capture the instructions and send the pictures to your smartphone or notebook computer so that you can view the instructions during operation.

1. Save all open files, and exit all apps.
2. Start the ThinkPad Tablet Setup program. See “ThinkPad Tablet Setup program” on page 27.
3. Tap **Security** → **Password**.
4. Tap **Enter** next to the supervisor password item and follow the instructions on the screen.
5. Save configuration changes and exit.

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## Using your tablet more comfortably

With the help of all the conveniences and powerful features of your tablet, you can carry your tablet all day long for work or entertainment at many places. Therefore it is important that you remain attentive to good posture, good lighting, and proper seating to achieve greater comfort with your tablet.

**Active sitting and rest breaks:** The longer you sit and work with your tablet, the more important it is to observe your working posture. Make minor voluntary postural changes and take frequent, short breaks when you use the tablet for a long time. Your tablet is a light and mobile system; remember that it can easily be repositioned to accommodate many posture modifications you might wish to make.

**Work area setup options:** Familiarize yourself with all of your office furniture so that you know how to adjust your work surface, seat, and other work tools to accommodate your preferences for comfort. If your work area is not in an office setting, be sure to take special note of employing active sitting and utilizing work breaks. There are many ThinkPad product solutions available to help you modify and expand your tablet to best suit your needs. Explore your options for docking solutions and external products that can provide the adjustability and features you want. To view some of these options, go to:  
<http://www.lenovo.com/essentials>

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## Traveling with your tablet

The following tips help you travel more comfortably and securely with your tablet.

### **Tips on anti-theft and anti-damage**

- While it is safe to allow your tablet to go through the x ray machines at airport security stations, it is important to keep your eyes on the tablet at all times to prevent theft.
- Put your tablet in a protective case when not in use to prevent damage or scratching.

### **Tips on airline traveling**

- If you want to use the wireless service, check with the airline for any restrictions before boarding the airplane.
- If there are restrictions on the use of tablets with wireless features on an airplane, enable the Airplane mode. To enable it, do the following:
  1. Swipe in from the right edge of the screen to display the charms.

2. Tap **Settings** → **Change PC settings** → **Network**.
  3. Slide the control to the right to turn on **Airplane mode**. In the Airplane mode, all wireless features are disabled.
- Be careful about the seat in front of you on the airplane. Place your tablet in a safe position so that it does not get caught when the person in front of you leans back.

### ***Tips on carrying tablet accessories***

Consider to take the following accessories when you are planning to travel.

- ac power adapter and power cord
- ThinkPad Active Pen
- ThinkPad 10 Ultrabook Keyboard
- ThinkPad 10 Quickshot Cover
- ThinkPad headphones
- A quality carrying case that provides adequate cushion and protection
- Additional storage devices
- A ThinkPad ac power adapter suitable for the country or region you are traveling to
- A micro SIM card for the local mobile services in that country or region

---

## **Taking care of your tablet**

Handle your tablet with care so that you can enjoy this product for a long time.

### ***Cleaning your tablet***

To clean your tablet, unplug all cables and turn off the tablet by pressing and holding the power button for a few seconds. Then wipe the tablet screen with a soft, lint-free, and dry cloth to clear stains and smudges.

**Note:** Do not use screen cleaners, household cleaners, aerosol sprays, solvents, alcohol, ammonia, or abrasives to clean your tablet.

### ***Protecting the screen with a replaceable film***

You can purchase a replaceable film to protect the screen from scratching and extend the life of your tablet. To use a replaceable film, clean the screen first and then apply the replaceable film on the screen.

### ***Storing the tablet for extended periods***

If you are not going to use your tablet for an extended period of time, remove the micro SIM card from your tablet. Pack your tablet with a protective case and store it in a well-ventilated and dry area without direct exposure to sunshine.

---

## Chapter 4. Accessories

The following accessories are designed to enhance your experience with the tablet:

- “ThinkPad Active Pen and USB pen holder” on page 21
- “ThinkPad 10 Ultrabook Keyboard” on page 22
- “ThinkPad 10 Quickshot Cover” on page 24

Depending on the model, your tablet might not come with certain accessories. You can purchase the accessories from the Lenovo Web site at:

<http://www.lenovo.com/essentials>

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### ThinkPad Active Pen and USB pen holder

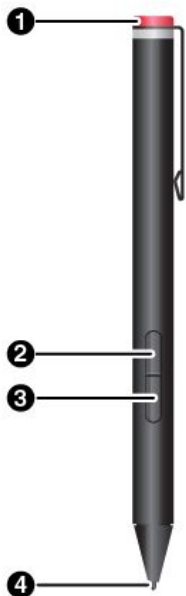
The ThinkPad Active Pen (referred to as the active pen in this section) enables you to write and draw in a nature manner. The USB pen holder helps you find a place on the tablet to store the active pen.

This section introduces the basic use of the active pen. For more information, refer to the documentation of the active pen.

#### Notes:

- The active pen is not waterproof. Take care not to drop the pen in water.
- The active pen contains pressure sensors. Do not push the tip of the pen for an extended period of time. Do not make the pen subject to shock or vibration.

#### Active pen overview



#### ① End cap

Unscrew the end cap to install or replace a battery.

#### ② Right-click button

To right-click, tap the tip on the screen and press the right-click button, or hold the pen tip on the screen for one second.

#### ③ Eraser button

To erase text or drawing, hold down the eraser button and drag the tip across the area you want to erase.

#### Pen tip

To click, tap on the screen with the tip. To double-click, tap twice.

④

### ***Installing a battery to power the active pen***

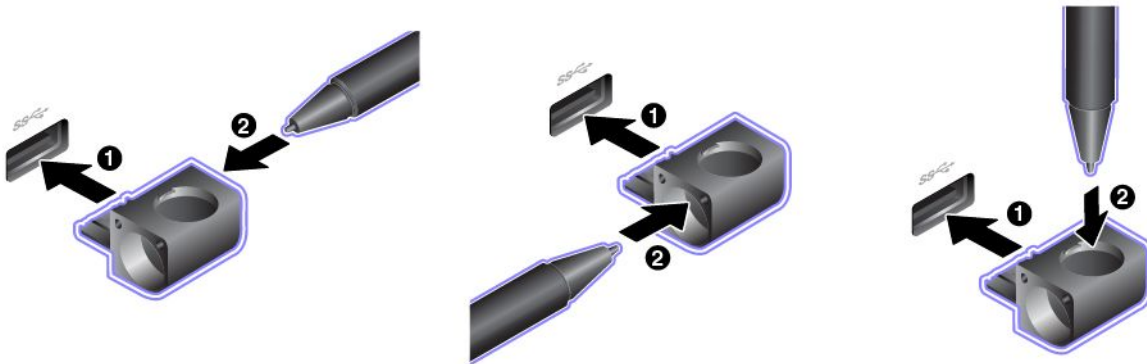


- ❶ Unscrew the end cap.
- ❷ Insert an AAAA alkaline battery into the battery compartment.
- ❸ Tighten the end cap.

**Note:** Your tablet might be shipped with an AAAA alkaline battery.

### ***Using the USB pen holder to store the active pen***

**Note:** The USB pen holder is available only on some tablet models.



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## **ThinkPad 10 Ultrabook Keyboard**

Attach a ThinkPad 10 Ultrabook Keyboard (referred to as the keyboard in this section) to your tablet so that you can transform your tablet into a portable notebook computer.

This section introduces the basic use of the keyboard. For more information, refer to the documentation of the keyboard.

## Keyboard overview



### 1 Pen slot

If your tablet comes with an active pen, you can store it in the pen slot of the keyboard.

**Note:** Some keyboard models also come with a pen slot cover to protect the pen slot from dust.

### 2 Clickpad

The clickpad is a pointer-positioning device that enables you to point, select, and scroll, like you do with a traditional mouse. You also can use the clickpad to perform basic touch gestures.

### 3 Special keys

The special keys provide one-button access to certain programs and functions such as adjusting the speaker volume.

## Attaching the keyboard to your tablet

Attach the keyboard to your tablet in one of the following methods:

- **Attach for use**



Attach the keyboard to your tablet as shown so that you can use the keyboard for input.

- **Attach for carrying**



Attach the keyboard to your tablet as shown so that you can easily carry them around together.

- **Attach for carrying**



Attach the keyboard to your tablet as shown so that you can easily carry them around together.

**Note:** This method only applies to tablet models that are not equipped with a smart card reader.

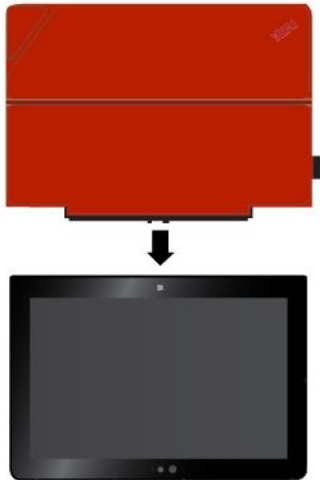
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## ThinkPad 10 Quickshot Cover

The ThinkPad 10 Quickshot Cover (referred to as the cover in this section) is designed for ThinkPad 10 tablets that are not equipped with a smart card reader. The cover is a handy option with multiple functions. It protects the tablet screen, makes the tablet sleep or wake-up within one second, launches the camera, and also serves as a stand.

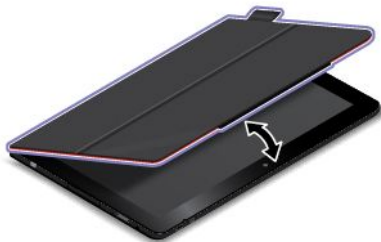
This section introduces the basic use of the cover. For more information, refer to the documentation of the cover.

### ***Attaching the cover to your tablet***



Attach the cover to your tablet as shown then the cover is ready for use.

### ***Closing and opening the cover***



#### **Closing the cover**

This action puts the tablet into sleep mode.

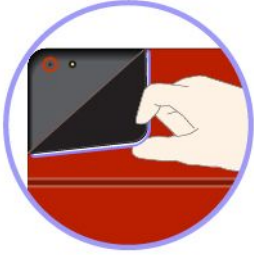
#### **Opening the cover**

This action wakes the tablet from sleep mode.

### ***Launching the camera***



The cover enables you to launch the rear camera in a quick way. Open the cover to an angle of 360 degrees. In this situation, you can launch the rear camera by just flipping over the magnetic tab of the cover as shown.



### ***Using the cover as a stand***



Fold the cover as shown so that it serves as a tablet stand.





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## Chapter 5. Advanced configuration

This chapter provides information about the advanced configuration and features.

---

### Installing device drivers

The device drivers are available at <http://www.lenovo.com/ThinkPadDrivers>. Choose your tablet product name to view all the device drivers for your tablet.

**Attention:** Always go to <http://www.lenovo.com/ThinkPadDrivers> for the latest device drivers. Do not download them from the Windows Update Web site.

---

### ThinkPad Tablet Setup program

The ThinkPad Tablet Setup program enables you to view and configure various setup parameters.

**Note:** The default configurations are already optimized for you. Incorrect change of the configurations might cause unexpected results.

#### *Starting the ThinkPad Tablet Setup program*

To start the ThinkPad Tablet Setup program, do one of the following:

- Restart the tablet. Immediately press and hold the volume-up button until the ThinkPad Tablet Setup program starts.

**Note:** If you are required to enter the supervisor password, enter the correct password. If you skip the password prompt, you still can start the ThinkPad Tablet Setup program but you cannot change the configurations. For more information, refer to “Using passwords” on page 18.

- To start the ThinkPad Tablet Setup program from the operating system, do the following:
  1. Swipe in from the right edge of the screen to display the charms.
  2. Tap **Settings** → **Change PC settings**.
  3. In the navigation panel, tap **Update and recovery** → **Recovery**.
  4. In the **Advanced startup** section, tap **Restart now**.
  5. The tablet restarts and a menu is displayed. Tap **Troubleshoot** → **Advanced options** → **UEFI Firmware Settings** → **Restart**.
  6. The tablet restarts and enters the ThinkPad Tablet Setup program.

**Note:** If you are required to enter the supervisor password, enter the correct password. If you skip the password prompt, you still can start the ThinkPad Tablet Setup program but you cannot change the configurations. For more information, refer to “Using passwords” on page 18.

#### *ThinkPad Tablet Setup menus*

The ThinkPad Tablet Setup program includes the following menus:

- **Main menu:** View the system information and set the date and time for your tablet.
- **Config menu:** View and change the configurations of your tablet.
- **Security menu:** Set the supervisor password and configure other security features of your tablet.
- **Startup menu:** Change the tablet startup settings.
- **Restart menu:** Choose an option for exiting the ThinkPad Tablet Setup program and restarting the system.

On each menu, tap the default value to show selectable options and tap a desired option to select it. Follow the instructions on the screen to configure the settings. After you change the settings, tap **Restart**, and then tap your desired option to restart the tablet.

**Note:** Some items are displayed on the menu only if the tablet supports the corresponding features.

---

## Updating the UEFI BIOS

The Unified Extensible Firmware Interface (UEFI) BIOS is a part of the system programs that make up the basic layer of software built into your tablet. The UEFI BIOS translates the instructions from other software layers.

You can update the UEFI BIOS and the ThinkPad Tablet Setup program by starting your tablet with a flash update application running in the Windows environment.

When you add software, hardware, or a device driver, you can consider updating your UEFI BIOS for the new addition to work properly.

To update your UEFI BIOS, go to:  
<http://www.lenovo.com/ThinkPadDrivers>

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## System management

This section is intended primarily for network administrators.

The tablet is designed for manageability, so that you can redirect more of your resources to meet your business objectives better.

This manageability enables you to operate client tablets remotely in the same way as you operate your own tablet, such as turning on a client tablet, formatting the hard disk drive, and installing software.

Once the tablet is configured and operational, you can manage it by use of software and manageability features already integrated into the client system and the network.

The following content introduces some system management features.

### ***Desktop Management Interface***

The system UEFI BIOS of your tablet supports an interface called System Management BIOS Reference Specification (SMBIOS) V2.6.1. The SMBIOS provides information about the hardware components of your system. It is the responsibility of the BIOS to supply this database with information about itself and the devices on the system board. This specification documents the standards for getting access to this BIOS information.

### ***Asset ID EEPROM***

The Asset ID EEPROM contains information about the system, including its configuration and the serial numbers of key components. It also includes a number of blank fields in which you can record information about the end users in your network.

### ***Preboot eXecution Environment***

The Preboot eXecution Environment (PXE) technology makes the tablet more manageable by enabling the tablet to start from a server. For example, with the appropriate LAN card, your tablet can be started from the PXE server.

**Note:** The Remote Initial Program Load (RIPL or RPL) function cannot be used with your tablet.

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## Chapter 6. Accessibility

Lenovo helps users with disabilities to access information and technology easily.

Some accessibility tools are available in the Windows operating system, and others can be purchased from third-party providers.

This section gives a brief introduction to the available accessibility tools. For details about how to use the accessibility tools, see the Windows Help and Support information system.

---

<b>On-screen notification</b>	<p>On-screen notification helps hearing-impaired people be aware of the status of their tablet. On-screen notification replaces sounds with visual cues or text captions to indicate that activity is happening on the tablet. As a result, system alerts are noticeable even when they are not heard. For example, when you select one object, the object is highlighted.</p> <p>To use on-screen notification, open Control Panel, tap <b>Ease of Access → Ease of Access Center</b>, and then tap <b>Use text or visual alternative for sounds</b>.</p>
<b>Audio notification</b>	<p>Audio notification helps visually impaired people or people with weak sight be aware of the status of their tablet.</p> <p>To use audio notification, open Control Panel, tap <b>Ease of Access → Ease of Access Center → Use the computer without a display</b>, and then select <b>Turn on Audio Description</b>.</p>
<b>Narrator</b>	<p>Narrator is a screen reader that reads text on the screen aloud and describes events like error messages.</p> <p>To open Narrator, tap the Search icon on the top-right corner of the Start screen and then type Narrator into the displayed search box. If you are using a keyboard, you can just start typing on the Start screen and then the search box and search results are displayed automatically. In the list of results, tap <b>Narrator</b>.</p>
<b>Screen-reader technologies</b>	<p>Screen-reader technologies are primarily focused on software program interfaces, help information systems, and various online documents. For additional information about screen readers, see the following:</p> <ul style="list-style-type: none"><li>• Using the Portable Document Format (PDF) files with screen readers: <a href="http://www.adobe.com/accessibility.html?promoid=DJGVE">http://www.adobe.com/accessibility.html?promoid=DJGVE</a></li><li>• Using the JAWS screen reader: <a href="http://www.freedomscientific.com/jaws-hq.asp">http://www.freedomscientific.com/jaws-hq.asp</a></li><li>• Using the NVDA screen reader: <a href="http://www.nvaccess.org/">http://www.nvaccess.org/</a></li></ul>
<b>Speech recognition</b>	<p>Speech Recognition enables you to control your tablet by voice.</p> <p>Using only your voice, you can start programs, open menus, tap buttons and other objects on the screen, dictate text into documents, and write and send e-mails.</p> <p>To open Speech Recognition, tap the Search icon on the top-right corner of the Start screen and then type Speech Recognition into the displayed search box. If you are using a keyboard, you can just start typing on the Start screen and then the search box and search results are displayed automatically. In the list of results, tap <b>Speech Recognition</b>.</p>

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<b>Customizable text size</b>	<p>Depending on your preference, you can change only the text size instead of changing the size of everything on the desktop.</p> <p>To change the text size, open Control Panel, tap <b>Appearances and Personalization → Display</b>, go to <b>Change only the text size</b>, and set a text size that meets your needs.</p>
<b>Magnifier</b>	<p>Your tablet is equipped with the Microsoft Magnifier to help visually impaired people use the tablet more comfortably. Magnifier is a useful utility that enlarges part or all of your screen so that you can see the words and images better. Magnifier is part of the Ease of Access Center.</p> <p>To open Magnifier, tap the Search icon on the top-right corner of the Start screen and then type Magnifier into the displayed search box. If you are using a keyboard, you can just start typing on the Start screen and then the search box and search results are displayed automatically. In the list of results, tap <b>Magnifier</b>.</p>
<b>Zoom</b>	<p>You can use the zoom feature to enlarge or reduce the size of text, pictures, maps, or other objects.</p> <ul style="list-style-type: none"> <li>• Zoom in: Move two fingers farther apart on the touch screen to enlarge the size of text, pictures, maps, or other objects.</li> <li>• Zoom out: Move two fingers closer together on the touch screen to reduce the size of text, pictures, maps, or other objects.</li> </ul>
<b>Adjustable screen resolution</b>	<p>You can make your documents easier to read by adjusting the screen resolution of your tablet. To adjust the screen resolution, tap and hold anywhere on the desktop, tap <b>Screen resolution</b>, and then adjust the settings as you prefer.</p> <p><b>Note:</b> Setting too low of a resolution might prevent some items from fitting on the screen.</p>
<b>Documentation in accessible formats</b>	<p>Lenovo provides electronic documentation in accessible formats, such as properly tagged PDF files or HyperText Markup Language (HTML) files. Lenovo electronic documentation is developed to ensure that visually impaired users can read the documentation through a screen reader. Each image in the documentation also includes adequate alternative text to explain the image so that visually impaired users can understand the image when they use a screen reader.</p>
<b>On-Screen Keyboard</b>	<p>On-Screen Keyboard displays a visual keyboard with all the standard keys.</p> <p>To open On-Screen Keyboard, tap the Search icon on the top-right corner of the Start screen and then type On-Screen Keyboard into the displayed search box. If you are using a keyboard, you can just start typing on the Start screen and then the search box and search results are displayed automatically. In the list of results, tap <b>On-Screen Keyboard</b>.</p>
<b>Industry-standard connectors</b>	<p>Your tablet provides industry-standard connectors that enable you to connect external devices if needed.</p>

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## Chapter 7. Troubleshooting

If your tablet encounters a problem, find a solution here.

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### Frequently asked questions

The problems and solutions described in this section are meant only as a guide. They are not definitive problem-solving techniques. If a problem persists, you can get support from Lenovo. For more information, see “Calling Lenovo” on page 36.

**Attention:** When you observe a problem, stop operation immediately, because taking further action might result in data loss or damage.

---

#### Internet problem

##### ***Failed to establish a wireless WAN connection?***

Ensure that:

- The micro SIM card is valid and workable if you are using a mobile network (3G or 4G).
  - You are within the network service range and the signal strength is good.
  - Your tablet is not in Airplane mode.
  - If a USB 3.0 device is attached to your tablet, the USB 3.0 device might influence the wireless WAN connection. Detach the USB 3.0 device from your tablet to resolve the problem.
- 

#### Battery problem

##### ***Failed to charge the tablet?***

Check if the ac power adapter is connected correctly. If the connection is good but the battery still does not charge, contact Lenovo to replace the battery.

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#### System problem

##### ***Failed to power on?***


Connect your tablet to an ac power outlet to see if the drained battery caused the problem.

If the problem persists, insert a needle or a straightened paper clip into the emergency-reset hole. To locate the emergency-reset hole, see “Controls and connectors” on page 2 . After resetting your tablet, try to turn it on again.

##### ***Failed to turn the tablet off by pressing and holding the power button?***

Insert a needle or a straightened paper clip into the emergency-reset hole to reset your tablet. To locate the emergency-reset hole, see “Controls and connectors” on page 2 . If you still encounter the same problem, reset the tablet to the factory default settings. See “Resetting your tablet to the factory default settings” on page 34.

---

<b>Audio problem</b>	<b>Poor audio quality or no sound output?</b>
	<p>Ensure that:</p> <ul style="list-style-type: none"> <li>• The speaker is not covered.</li> <li>• The speaker mute function is disabled.</li> <li>• If you are using a headset, unplug it, then plug it in again.</li> <li>• The volume is not turned to the lowest level.</li> </ul>
	<b>Failed to play a song, video, or other media file?</b>
	Ensure that the media file is not corrupted.
<b>External device connection problem</b>	<b>Failed to detect an external display?</b>
	Tap and hold (right-click) anywhere on the desktop, then tap <b>Screen → Resolution → Detect</b> .
	<b>Failed to locate Bluetooth devices?</b>
	<p>Ensure that:</p> <ul style="list-style-type: none"> <li>• Your tablet Bluetooth is switched on.</li> <li>• The Bluetooth feature is activated on the device to which you want to connect.</li> <li>• Your tablet and the Bluetooth device are within the maximum Bluetooth signal range (10 m, 32.8 feet).</li> </ul>
<b>Screen problem</b>	<b>Slow or improper responding from the multi-touch screen?</b>
	<ol style="list-style-type: none"> <li>1. Ensure that your hands are clean and dry when touching the screen.</li> <li>2. Restart your tablet to try again.</li> </ol>
	<b>Blank screen when the tablet is operating?</b>
	Disable any system timers, such as the LCD turn-off timer or the blank timer, by doing the following:
	<ol style="list-style-type: none"> <li>1. Go to the desktop and tap the battery-status icon  in the Windows notification area.</li> <li>2. Tap <b>More power options → Balanced</b>.</li> <li>3. Follow the instructions on the screen.</li> </ol>
	<b>White pointer on a blank screen after power-on?</b>
	<ol style="list-style-type: none"> <li>1. Turn off the tablet, and then turn it on again.</li> <li>2. If you still see only the pointer on the screen, use the recovery solutions to restore the system to the factory state.</li> </ol>
	<b>Blank screen when the tablet is on?</b>
	Your screen saver or power management might have been enabled. Do either of the following:
	<ul style="list-style-type: none"> <li>• Tap the tablet screen to exit the screen saver.</li> <li>• Press the power button to resume from sleep or hibernation mode.</li> </ul>

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## Error messages

When the following error messages are displayed on the screen, take the corresponding solutions.

- **Message:** 0183: Bad CRC of Security Settings in EFI Variable. Enter ThinkPad Tablet Setup.  
**Solution:** Checksum of the Security settings in the EFI Variable is not correct. Enter ThinkPad Tablet Setup to check security settings, and restart the system. If you still encounter a problem, have the tablet serviced.
- **Message:** 0187: EAIA data access error.  
**Solution:** The access to EEPROM is failed. Have the tablet serviced.
- **Message:** 0188: Invalid RFID Serialization Information Area.  
**Solution:** The EEPROM checksum is not correct (block # 0 and 1). The system board should be replaced, and the box serial number should be reinstalled. Have the tablet serviced.
- **Message:** 0189: Invalid RFID configuration information area  
**Solution:** The EEPROM checksum is not correct (block # 4 and 5). The system board should be replaced, and the universally unique identifier (UUID) should be reinstalled. Have the tablet serviced.
- **Message:** 0190: Critical low-battery error  
**Solution:** The tablet turned off, because the battery power is low. Connect the ac power adapter to the tablet and charge the battery.
- **Message:** 2200: Machine Type and Serial Number are invalid.  
**Solution:** Machine Type and Serial Number are invalid. Have the tablet serviced.
- **Message:** 2201: Machine UUID is invalid.  
**Solution:** Machine UUID is invalid. Have the tablet serviced.

---

## Lenovo Solution Center

Use Lenovo Solution Center  to troubleshoot and resolve tablet problems. The program combines diagnostic tests, system information collection, security status, and support information, along with hints and tips for maximum system performance.

For information about accessing Lenovo Solution Center, see “Lenovo apps” on page 13.

You also can download the Lenovo Solution Center program from:  
<http://www.lenovo.com/diags>

For additional information, refer to the help system of Lenovo Solution Center.

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## Windows recovery programs

The Windows recovery programs enable you to refresh your tablet, reset your tablet to the factory default settings, or start the tablet from an external device.

It is recommended that you create a recovery USB drive as early as possible. Store the recovery USB drive as a backup or replacement for the Windows recovery programs.

For more information, see “Creating and using a recovery USB drive” on page 35.

## Refreshing your tablet

If your tablet does not perform well and the problem might result from a recently installed program, you can refresh your tablet without losing your personal files or changing your settings.

**Attention:** If you refresh your tablet, the programs that came with your tablet and the programs that you installed from Windows Store will be reinstalled, but all other programs will be removed.

To refresh your tablet, do the following:

1. Swipe in from the right edge of the screen to display the charms.
2. Tap **Settings** → **Change PC settings**.
3. In the navigation panel, tap **Update and recovery** → **Recovery**.
4. In the **Refresh your PC without affecting your files** section, tap **Get started**.
5. Follow the instructions on the screen to refresh your tablet.

## Resetting your tablet to the factory default settings

If you want to recycle your tablet or just start over, you can reset your tablet to the factory default settings. Resetting the tablet reinstalls the operating system, reinstall all the programs that came with your tablet, and reset all the settings to the factory default settings.

**Attention:** If you reset the tablet to the factory default settings, all your personal files and settings will be deleted. To avoid data loss, make a backup copy of all the data that you want to keep.

To reset your tablet to the factory default settings, do the following:

1. Swipe in from the right edge of the screen to display the charms.
2. Tap **Settings** → **Change PC settings**.
3. In the navigation panel, tap **Update and recovery** → **Recovery**.
4. In the **Remove everything and reinstall Windows** section, tap **Get started**. Then tap **Next** to confirm the operation.
5. Depending on your needs, do one of the following:
  - To perform a quick format, tap **Just remove my files** to start the process. The process takes several minutes.
  - To perform a complete format, tap **Fully clean the drive** to start the process. The process takes several hours.
6. Follow the instructions on the screen to reset your tablet to the factory default settings.

## Using the advanced startup options

With the advanced startup options, you can change the firmware settings of the tablet, change the startup settings of the Windows operating system, start the tablet from an external device, or restore the Windows operating system from a system image.

To use the advanced startup options, do the following:

1. Swipe in from the right edge of the screen to display the charms.
2. Tap **Settings** → **Change PC settings**.
3. In the navigation panel, tap **Update and recovery** → **Recovery**.
4. In the **Advanced startup** section, tap **Restart now** → **Troubleshoot** → **Advanced options**.
5. Select a desired startup option, then follow the instructions on the screen.

## Recovering your tablet if the Windows operating system fails to start

The Windows recovery programs on your tablet is capable of operating independently from the Windows 8.1 operating system. This enables you to recover or repair the operating system even if the Windows 8.1 operating system fails to start.



After two consecutive failed boot attempts, the Windows recovery programs start automatically. Then you can choose repair and recovery options by following the instructions on the screen.

**Note:** Ensure that your tablet is connected to ac power during the recovery process.

## Creating and using a recovery USB drive

You can create a recovery USB drive as a backup for the Windows recovery programs. With the recovery USB drive, you can troubleshoot and fix the problems even if the preinstalled Windows recovery programs are damaged.

### *Creating a recovery USB drive*

The USB drive that you use to create the recovery USB drive should be at least 16 GB of storage. The actual USB capacity that is required depends on the size of the recovery image.

**Attention:** The creation process deletes anything stored on the USB drive. To avoid data loss, make a backup copy of all the data that you want to keep.

To create a recovery USB drive, do the following:

**Note:** Ensure that your tablet is connected to ac power during the following process.

1. Swipe in from the right edge of the screen to display the charms and tap **Search**.
2. Type *recovery* in the **Search** field. Then tap **Create a recovery drive**.
3. Tap **Yes** in the User Account Control window to allow the Recovery Media Creator program to start.
4. Ensure that you select **Copy the recovery partition from the PC to the recovery drive**. Then tap **Next**.

**Important:** If you clear **Copy the recovery partition from the PC to the recovery drive**, you will create a recovery USB drive without the recovery partition content. You still can start the tablet from the recovery USB drive, but you might be unable to recover your tablet if the recovery partition on your tablet is damaged.

5. Connect a proper USB drive, then tap **Next**.
6. Tap **Create** in the Recovery Drive window. The creation of the recovery USB drive starts.
7. When the creation of the recovery USB drive finishes, do one of the following:
  - To keep the recovery partition on your tablet, tap **Finish**.
  - To delete the recovery partition on your tablet, tap **Delete the recovery partition**.

**Attention:** If you delete the recovery partition on your tablet, do keep the recovery USB drive in a safe place. The Windows recovery image will not be stored in your tablet anymore, and you will need the recovery USB drive to refresh or reset your tablet.

8. Remove the USB drive. The recovery USB drive is created successfully.

### *Using the recovery USB drive*

If you cannot start your tablet, or if you cannot start the Windows recovery image on your tablet, use the recovery USB drive to recover your tablet.

To use a recovery USB drive, do the following:

**Note:** Ensure that your tablet is connected to ac power.

1. Connect the recovery USB drive to your tablet.
2. Start the ThinkPad Tablet Setup program. See “ThinkPad Tablet Setup program” on page 27.

3. Tap **Startup**. In the **Boot** submenu, drag the recovery drive to the first place to select it as the boot device.
4. Save configuration changes and restart the tablet.
5. Follow the instructions on the screen to recover the tablet.

For more information about the recovery solutions provided by the Windows 8.1 operating system, go to: <http://go.microsoft.com/fwlink/?LinkID=263800>

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## Lenovo Factory Recovery USB Key

To obtain a Lenovo Factory Recovery USB Key, contact Lenovo Customer Support Center. Shipping and handling fees apply.

For information about contacting Lenovo Customer Support Center, see “Calling Lenovo Customer Support Center” on page 36.

**Note:** Ensure that your tablet is connected to ac power during the following process.

1. Turn off the tablet, wait for about five seconds, and then connect the Lenovo Factory Recovery USB Key to your tablet.
2. Start the ThinkPad Tablet Setup program. See “ThinkPad Tablet Setup program” on page 27.
3. Tap **Startup**. On the **Boot** submenu, drag **USB CD/DVD:** upward until **USB CD/DVD:** is shown as the first startup device.
4. Tap **Save**, and then tap **Yes** to save your configuration.
5. Tap **Restart** and follow the on-screen instructions to restart the tablet. After the tablet restarts, the recovery program runs automatically.
6. Follow the on-screen instructions to reset your tablet to the factory default settings.

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## Lenovo Support Web site

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

This Web site is updated with the latest support information:

- Drivers and software
- Diagnostic solutions
- Product and service warranty
- Guides and manuals
- Lenovo user forums

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## Calling Lenovo Customer Support Center

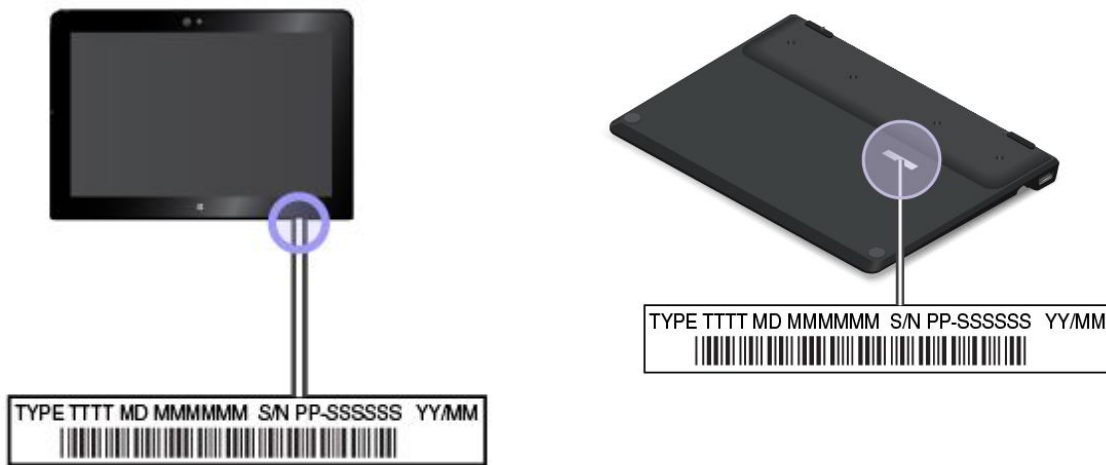
In most cases, you can solve your tablet problems by referring to the error message solutions, running diagnostic programs, or consulting the Lenovo Web site. If you still encounter tablet problems after the self-troubleshoot, contact Lenovo Customer Support Center.

If possible, be near your tablet when you make the call.

### ***Before calling Lenovo***

Before you contact Lenovo, do the following preparations for a quick service:

- Registering your tablet  
Register your tablet with Lenovo so that you can get prompt support. For more information, see “Registering your tablet” on page 13.
- Installing system updates  
Installing the latest drivers or software might resolve the problems.  
To download the latest drivers or software, go to:  
<http://www.lenovo.com/support>
- Getting the proof of purchase
- Recording the machine type and serial number



- Recording the problem details
  - What is the problem? Is it continuous or intermittent?
  - Is there an error message? What is the error code, if any?
  - What operating system are you using? Which version?
  - Which software programs were running at the time of the problem?
  - Can the problem be reproduced? If so, how?

### **Lenovo Support phone numbers**

To get the Lenovo Support phone numbers for your country or region, do one of the following:

- Refer to the *Safety, Warranty, and Setup Guide* that comes with your tablet.
- Go to <http://www.lenovo.com/support/phone>.

If the numbers for your country or region are not provided, contact your Lenovo reseller or Lenovo marketing representative.

### **Services available during the warranty period**

- Problem determination - Trained personnel are available to assist you with determining if your tablet has a hardware problem and deciding what action is necessary to fix the problem.
- Lenovo hardware repair - If the problem is 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.

For the terms and conditions of the Lenovo Limited Warranty that apply to your Lenovo hardware product, see “Warranty information” in the *Safety, Warranty, and Setup Guide* that comes with your tablet.

### **Services not covered by warranty terms**

- Replacement or use of parts not manufactured for or by Lenovo or non-warranted parts
- Identification of software problem sources
- Configuration of the 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 application programs

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## **Purchasing additional services**

During and after the warranty period, you can purchase additional services, such as:

- Support for Lenovo and non-Lenovo hardware, operating systems, and application programs
- Network setup and configuration services
- Upgraded or extended hardware repair services and custom installations services

**Note:** Services might vary by country or region.

For more information about additional services, go to:  
<http://www.lenovo.com/essentials>

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## Appendix A. Regulatory information

This appendix provides regulatory information.

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### Certification-related information

The following table contains information about the product name, compliance ID, and machine types.

Product name	Compliance ID	Machine types
ThinkPad 10	TP00065A	20E3 and 20E4

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### Wireless-related information

#### Wireless interoperability

The wireless LAN card is interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS), Complementary Code Keying (CCK), and/or Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

- The 802.11b/g Standard, 802.11a/b/g, 802.11n, or 802.11ac on Wireless LANs, as defined and approved by the Institute of Electrical and Electronics Engineers.
- The Wireless Fidelity (Wi-Fi) certification as defined by the Wi-Fi Alliance.

The Bluetooth card in your tablet is interoperable with any Bluetooth product that is compliant to Bluetooth Specification 4.0 as defined by the Bluetooth SIG. Your Bluetooth card supports the following profiles:

**Note:** Depending on the Bluetooth card, some profile might not be available.

- Advanced Audio Distribution Profile (A2DP)
- A/V Remote Control Profile (AVRCP)
- Dial-Up Networking Profile (DUN)
- File Transfer Profile (FTP)
- Generic Access Profile (GAP)
- Generic A/V Distribution Profile (GAVDP)
- Hardcopy Cable Replacement Profile (HCRP)
- Headset Profile (HSP)
- Hands-Free Profile (HFP)
- Human Interface Device Profile (HID)
- Message Access Profile (MAP)
- Object Exchange Protocol (OBEX)
- Object Push Profile (OPP)
- Personal Area Networking Profile (PAN)
- Phone Book Access Profile (PBAP)
- Service Discovery Protocol (SDP)
- Synchronization Profile (SYNC)

- Video Distribution Profile (VDP)
- Generic Attribute Profile (GATT)
- Proximity Profile

## Locating the UltraConnect™ wireless antennas

ThinkPad 10 features an antenna system built into the display for optimal reception, which enables you to establish wireless communications wherever you are.

The following illustration shows the location of each built-in wireless antenna.

**Note:** Wireless-WAN antennas are available only on some models.



## Wireless-radio compliance information

Tablet models equipped with wireless communications comply with the radio frequency and safety standards of any country or region in which it has been approved for wireless use.

### ***Brazil wireless-radio compliance information***

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

This equipment is a secondary type device, that is, it is not protected against harmful interference, even if the interference is caused by a device of the same type, and it also cannot cause any interference to primary type devices.

### ***Mexico wireless-radio compliance information***

Advertencia: En Mexico la operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

### ***Locating the FCC ID or IC Certification numbers***

You can find the FCC ID or IC Certification numbers for the installed wireless communication cards on your tablet.



### **Reading Regulatory Notice**

For more information about wireless-radio compliance information, refer to the *Regulatory Notice* shipped with the tablet. If your tablet is not shipped with *Regulatory Notice*, find the document at: <http://www.lenovo.com/UserManuals>

## **Usage environment and your health**

Integrated wireless cards emit radio frequency electromagnetic energy like other radio devices. However, the level of energy emitted is far much less than the electromagnetic energy emitted by wireless devices such as mobile phones.

Because integrated wireless cards operate within the guidelines found in radio frequency safety standards and recommendations, Lenovo believes they are safe for use by consumers. These standards and recommendations reflect the consensus of the 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 integrated wireless cards might be restricted by the proprietor of the building or responsible representatives of the organization. These situations and areas might for example include:

- Using the integrated wireless cards onboard of airplanes, in hospitals, petrol stations, blasting areas (with electro-explosive devices), medical implants, or body-worn electronic medical devices
- 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 on the use of wireless devices in a specific organization, you are encouraged to ask for authorization to use integrated wireless cards before turning on the tablet.

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## **Electronic emission notice**

### **Federal Communications Commission Declaration of Conformity**

The following information refers to the ThinkPad 10 tablet, machine types: 20E3 and 20E4.

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 Class B emission compliance statement

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

## European Union - Compliance to the Electromagnetic Compatibility Directive

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. Lenovo cannot accept responsibility for any failure to satisfy the protection requirements resulting from a nonrecommended 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 Information Technology Equipment according to European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

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



## German Class B compliance statement

### Deutschsprachiger EU Hinweis:

#### Hinweis für Geräte der Klasse B EU-Richtlinie zur Elektromagnetischen Verträglichkeit

Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie 2004/108/EG (früher 89/336/EWG) zur Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten und hält die Grenzwerte der EN 55022 Klasse B ein.

Um dieses sicherzustellen, sind die Geräte wie in den Handbüchern beschrieben zu installieren und zu betreiben. Des Weiteren dürfen auch nur von der Lenovo empfohlene Kabel angeschlossen werden.



Lenovo übernimmt keine Verantwortung für die Einhaltung der Schutzanforderungen, wenn das Produkt ohne Zustimmung der Lenovo verändert bzw. wenn Erweiterungskomponenten von Fremdherstellern ohne Empfehlung der 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 EU-Richtlinie 2004/108/EG (früher 89/336/EWG) 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 EG Richtlinie 2004/108/EC (früher 89/336/EWG), 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, Gropiusplatz 10, 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.**

## Korea Class B compliance statement

B급 기기 (가정용 방송통신기자재)
이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

## Japanese VCCI Class B 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

## Japan compliance statement for products which connect to the power mains with rated current less than or equal to 20 A per phase

日本の定格電流が 20A/相 以下の機器に対する高調波電流規制  
高調波電流規格 JIS C 61000-3-2 適合品

## Lenovo product service information for Taiwan

台灣 Lenovo 產品服務資訊如下:

荷蘭商聯想股份有限公司台灣分公司

台北市內湖區堤頂大道二段89號5樓

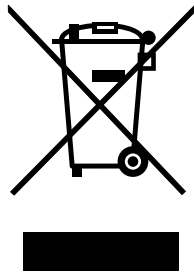
服務電話：0800-000-702

## WEEE and recycling information

Lenovo encourages owners of information technology (IT) equipment to recycle their equipment responsibly when it is no longer needed. Lenovo offers various programs and services to assist equipment owners in

recycling their IT products. For information on recycling Lenovo products, go to:  
<http://www.lenovo.com/recycling>

## Important WEEE information



The WEEE marking on Lenovo products applies to countries with WEEE and e-waste regulations (for example, European WEEE Directive, India E-Waste Management & Handling Rules, 2011). 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 collective 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. For additional WEEE information, go to:  
<http://www.lenovo.com/recycling>

## Recycling information for China

### 《废弃电器电子产品回收处理管理条例》提示性说明

联想鼓励拥有联想品牌产品的用户当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>

## Recycling information for Japan

### *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 dispose of disused components properly, 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 want 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 pack from Lenovo notebook computers***

Your Lenovo notebook computer has a lithium ion battery pack or a nickel metal hydride battery pack. If you are a company employee who uses a Lenovo notebook computer and need to dispose of a battery pack, contact the proper person in Lenovo sales, service, or marketing, and follow that person's instructions. You also can refer to the instructions at:

<http://www.lenovo.com/jp/ja/environment/recycle/battery/>.

If you use a Lenovo notebook computer at home and need to dispose of a battery pack, you must comply with local ordinances and regulations. You also can refer to the instructions at:

<http://www.lenovo.com/jp/ja/environment/recycle/battery/>.

## **Recycling information for Brazil**

### ***Declarações de Reciclagem no Brasil***

#### **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](mailto: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 Taiwan**



廢電池請回收

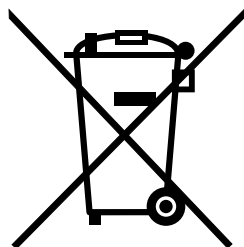
## Battery recycling information for the United States and Canada



US & Canada Only

## Battery recycling information for the European Union

EU



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

## Recycling information for China

### 《废弃电器电子产品回收处理管理条例》提示性说明

联想鼓励拥有联想品牌产品的用户当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>

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## **Restriction of Hazardous Substances Directive (RoHS)**

### **European Union RoHS**

Lenovo products sold in the European Union, on or after 3 January 2013 meet 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 progress on RoHS, go to:  
[http://www.lenovo.com/social\\_responsibility/us/en/RoHS\\_Communication.pdf](http://www.lenovo.com/social_responsibility/us/en/RoHS_Communication.pdf)

## China RoHS

### 产品中有害物质的名称及含量

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	0	0	0	0	0
硬盘	X	0	0	0	0	0
光驱	X	0	0	0	0	0
LCD 面板 (LED 背光源)	X	0	0	0	0	0
键盘	X	0	0	0	0	0
内存	X	0	0	0	0	0
电池	X	0	0	0	0	0
电源适配器	X	0	0	0	0	0
底壳、顶盖和扬声器	X	0	0	0	0	0

#### 注：

本表依据SJ/T 11364的规定编制。

**0：**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标准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标准规定的限量要求。标有“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（PCB）及其组件、集成电路（IC）和连接器。某些型号的产品可能不包含上表中的某些部件，请以实际购买机型为准。

#### 图示：



在中华人民共和国境内销售的电子信息产品上将印有“环保使用期限”（EPuP）符号。圆圈中的数字代表产品的正常环保使用期限。

## Turkish RoHS

The Lenovo product meets the requirements of the Republic of Turkey Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (EEE).

### **Türkiye EEE Yönetmeliğine Uygunluk Beyanı**

Bu Lenovo ürünü, T.C. Çevre ve Orman Bakanlığı'nın "Elektrik ve Elektronik Eşyalarda Bazı Zararlı Maddelerin Kullanımının Sınırlanmasına Dair Yönetmelik (EEE)" direktiflerine uygundur.

EEE Yönetmeliğine Uygundur.

### **Ukraine RoHS**

Цим підтверджуємо, що продукція Леново відповідає вимогам нормативних актів України, які обмежують вміст небезпечних речовин

### **India RoHS**

RoHS compliant as per E-Waste (Management & Handling) Rules, 2011.

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## **Additional compliance information**

### **Brazil audio notice**

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

### **Eurasian compliance mark**



### **ENERGY STAR model information**



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 tablets of the following machine types, if the ENERGY STAR mark is affixed, have been designed and tested to conform to the ENERGY STAR program requirements for tablets.

20E3 and 20E4

By using ENERGY STAR qualified products and taking advantage of the power-management features of the tablet, 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 the tablet has been inactive for a specified length of time:

**Power plan: Balanced (settings when plugged into ac power)**

- Put the tablet into sleep: After 10 minutes
- Advanced power settings:
  - Turn off hard disks: Not applicable
  - Hibernate: Never

To awaken the tablet from sleep mode, press the power button. For more information about these settings, see the Windows Help and Support information on the tablet.

## **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.



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## Appendix B. Trademarks

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

- Lenovo
- Lenovo logo
- ThinkPad
- ThinkPad logo
- UltraConnect

Microsoft and Windows are trademarks of the Microsoft group of companies.

Ultrabook is a trademark of Intel Corporation in the U. S. and/or other countries.

The terms HDMI and HDMI High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

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





**ThinkPad®**