ThinkPad

User Guide

ThinkPad Tablet with Android 4.0

Notes: Before using this information and the product it supports, be sure to read the following:

- *Safety and Warranty Guide*
- *Regulatory Notice*
- "Important safety and handling information" on page iii
- Appendix C "Notices" on page 89

The *Safety and Warranty Guide* and the *Regulatory Notice* have been uploaded to the Web site. To refer to them, go to http://www.lenovo.com/ThinkPadUserGuides.

Contents

Read this first

Be sure to follow the important tips given here to get the most use and enjoyment out of your tablet. Failure to do so might lead to discomfort or injury, or cause your tablet to fail.

Important safety and handling information

⚠️	To avoid personal injury, property damage, or accidental damage to your ThinkPad® Tablet (hereafter referred to as the tablet), read all of the information in this section before using it.
	For detailed operating instructions, refer to the *ThinkPad Tablet User Guide* (this publication). You can access the *ThinkPad Tablet User Guide* by using one of the following methods:
	• Go to http://www.lenovo.com/ThinkPadUserGuides and follow the instructions on the screen.
	• Start your tablet. Touch the applications icon ⊞ on the Home screen to go to the applications page. Then, touch the **User Guide** icon.
	For additional tips to help you operate your tablet safely, go to: http://www.lenovo.com/safety

Handle your tablet with care:

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

Do not disassemble or modify your tablet:

Your tablet is a sealed unit. There are no end-user serviceable parts inside. All internal repairs must be done by a Lenovo-authorized repair facility or a Lenovo-authorized technician. Attempting to open or modify your tablet will void the warranty.

Do not attempt to replace the internal battery:

Replacement of the internal rechargeable battery must be done by a Lenovo-authorized repair facility or a Lenovo-authorized technician. Lenovo-authorized repair facilities or technicians recycle Lenovo batteries according to local laws and regulations.

Prevent your tablet and charger 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.

• Do not use the ThinkPad Tablet AC Charger outdoors.

Use approved charging methods only:

You can use any of the following charging methods to safely recharge the internal battery of your tablet:

Charging method	Tablet on (Display is on)	Tablet off or in screen lock mode (Display is off)
ThinkPad Tablet Dock (fastest charging method)	Approved	Approved
ThinkPad Tablet AC Charger	Approved, but the battery will charge slowly	Approved
ThinkPad Tablet DC Charger	Approved, but the battery will charge slowly	Approved
A USB connection between the micro USB connector on the tablet and a USB connector of a personal computer or other device that complies with the USB 2.0 standards (slowest charging method)	Might not charge due to USB 2.0 power limits. If the power consumption of the tablet exceeds USB 2.0 power limits, the battery will discharge to compensate for the additional power required by the tablet.	Approved

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.

Prevent hearing damage:

Your tablet has a headphone connector. Always use the headphone connector 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.

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.

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 Appendix B "Environmental, recycling, and disposal information" on page 83 for additional information.

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 were not created by you; otherwise, your tablet software might fail to work.

Be aware that accessing network resources can leave your tablet vulnerable to computer 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 because the strong magnetic fields generated by these appliances can damage the screen and the data on the tablet.

Take precautions with plastic bags:

DANGER

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

Be aware of 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.

Polyvinyl Chloride (PVC) cable and cord notice

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.*

Chapter 1. Product overview

This chapter provides an overview of the tablet, including the locations of the connectors and controls, tablet features, accessories, specifications, and operating environment.

Tablet layout

This topic introduces the tablet hardware features to give you the basic information you will need to start using the tablet.

Front and side view
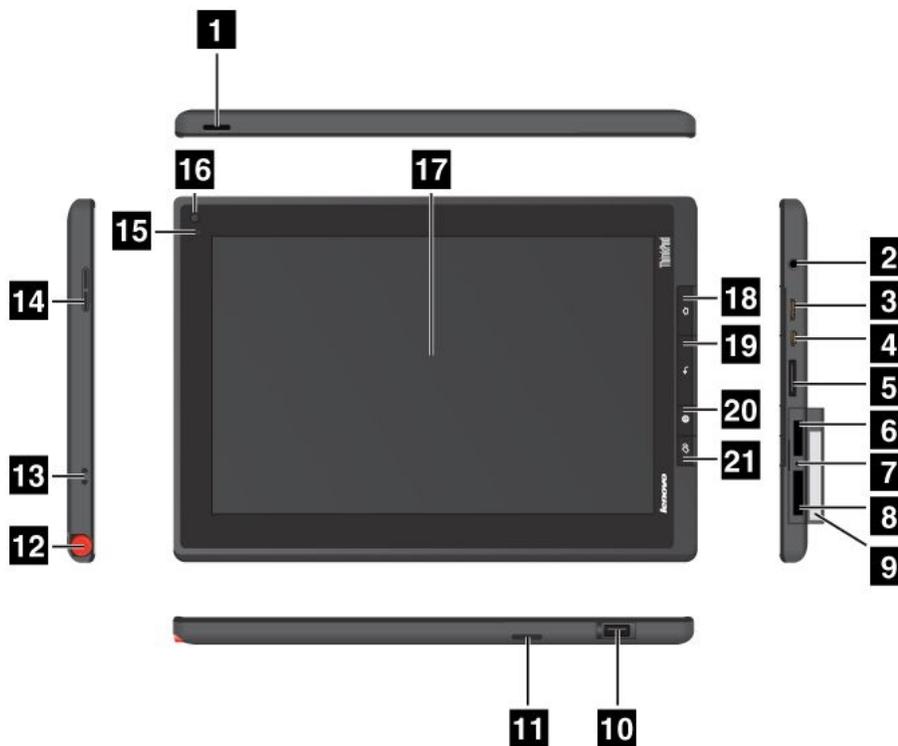
Figure 1. ThinkPad Tablet front and side view

1 Power button		**12** ThinkPad Tablet Pen storage	
2 Headphone or microphone connector		**13** ThinkPad Tablet Pen string holes	
3 Mini HDMI connector		**14** Volume control button	
4 Micro USB connector		**15** Ambient light sensor	
5 ThinkPad Tablet Dock connector		**16** Front-facing camera	
6 SIM card slot		**17** Multitouch screen	
7 Emergency reset hole		**18** Home button	

8 3-in-1 media card reader	**19** Back button
9 Machine type and model label	**20** Browser button
10 USB connector	**21** Screen rotation lock button
11 Speaker	

1 Power button

Press and hold the power button for four or five seconds to turn on the tablet. To turn off the tablet, press and hold the power button for two or three seconds, and then touch **OK** from the **Power off** menu.

When the tablet is on, a quick press of the power button locks the tablet. The tablet enters into sleep mode in a few seconds. To unlock the tablet, press the power button again to bring up the locked screen, and then perform the required action or input the correct information.

2 Headphone or microphone connector

Connect headphones to the connector to listen to stereo sound from the tablet or connect a microphone to record audio or make calls. You also can connect a headset with an integrated microphone that uses a combined audio/microphone connector.

3 Mini HDMI connector

Your tablet has a mini high-definition multimedia interface (HDMI) connector, a digital audio and video interface that can connect a compatible digital audio device or video display such as a high definition television (HDTV). For more information, see "Using HDMI devices" on page 41.

4 Micro USB connector

Use the supplied USB cable to connect your tablet to a personal computer for data transfer. See "Using the micro USB connector" on page 37.

You also can use the supplied USB cable and the ac charger to charge the tablet when the battery power is low. See "Charging the battery" on page 29.

5 ThinkPad Tablet Dock connector

Use this connector to connect a ThinkPad Tablet Dock. The ThinkPad Tablet Dock is available as an option from Lenovo at http://www.lenovo.com/accessories/services/index.html. For more information, see "Using the ThinkPad Tablet Dock" on page 49.

6 SIM card slot

Open the cover to access the Subscriber Identification Module (SIM) card slot. Insert a SIM card to establish a wireless Wide Area Network (WAN) connection. For instructions on how to install the SIM card, see "Installing the SIM card" on page 23.

Note: The SIM card slot is not functional on Wi-Fi-only models.

7 Emergency reset hole

If your tablet stops responding and you cannot turn it off or turn it on by pressing and holding the power button, reset the tablet by inserting a straightened paper clip into the emergency reset hole.

8 3-in-1 media card reader

Open the cover to access the 3-in-1 media card reader. Install a secure digital (SD) card, a secure digital high capacity (SDHC) card, or a MultiMediaCard (MMC) into the 3-in-1 media card reader for data storage. See "Using the 3-in-1 media card reader" on page 39 for more information.

9 **Machine type and model label**

The machine type and model label identifies your computer. When you contact Lenovo for help, the machine type and model number and the system-unit serial number on the label are required to help support technicians identify your computer.

10 **USB connector**

Open the USB connector cover to access the full-size USB connector. Use the full-size USB connector to connect a compatible USB device, such as a USB mouse, USB keyboard, or USB memory key. See "Using the full-size USB connector" on page 38.

If your tablet comes with a ThinkPad Tablet Keyboard Folio Case or you have purchased one, use this connector to connect the folio case. See "Using the ThinkPad Tablet Keyboard Folio Case" on page 46.

11 **Speaker**

The integrated speaker provides audio output for video and music playback.

12 **ThinkPad Tablet Pen storage**

If your tablet is shipped with a ThinkPad Tablet Pen or you have purchased one, use the storage slot to store it.

13 **ThinkPad Tablet Pen string holes**

Use the holes to tether the ThinkPad Tablet Pen to your tablet to avoid losing it.

14 **Volume control buttons**

Press the volume up or down button to adjust the tablet volume.

15 **Ambient light sensor**

The ambient light sensor detects the brightness of the environment. The screen brightness automatically adjusts depending on the ambient light conditions detected by the built-in ambient light sensor.

16 **Front-facing camera**

Your tablet has a 2-megapixel front-facing camera, which you can use to take pictures, create videos, or make video calls in collaboration with Web applications. For more information, see "Using the cameras" on page 34.

17 **Multitouch screen**

Touch the screen to use the controls on the screen including icons, menu items, and the onscreen keyboard. For more information, see "Using the multitouch screen" on page 13.

18 **Home button**

Press the Home button to go to the main Home screen at any time.

19 **Back button**

Press the Back button to return to the previous screen, or to close a dialog box.

20 **Browser button**

Press the button to open the default browser.

21 **Screen rotation lock button**

Press the button to disable the screen auto-rotation function. Press again to enable it.

Note: You can disable all of the four physical buttons (**18** Home button, **19** Back button, **20** Browser button, and **21** Screen rotation lock button) by going to the Android Settings screen and touching **Display → Disable Physical Buttons**.

Back-side view
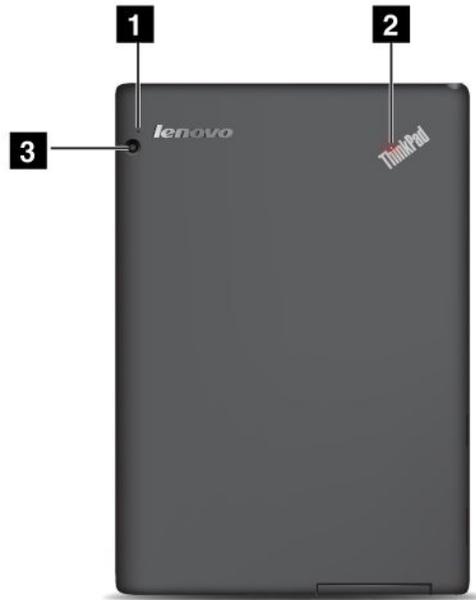
Figure 2. ThinkPad Tablet back-side view

1 Microphone	**3** Rear-facing camera
2 System-status indicator	

1 Microphone

The built-in microphone captures sound and voice when it is used with an application capable of handling audio.

2 System-status indicator

The illuminated dot in the ThinkPad logo on the backside of the tablet works as a system-status indicator.

The system-status indicator is on when the tablet is on and in use. When the tablet is in sleep mode or is turned off, the indicator is off.

3 Rear-facing camera

Your tablet has a 5-megapixel rear-facing camera, which you can use to take pictures and create videos. For more information, see "Using the cameras" on page 34.

Accessories

Figure 3. Accessories

- **ThinkPad Tablet AC Charger**: The ac charger consists of two parts, snap-in prongs and a charger head. Insert the prongs into the charger head to set up the ac charger. Use the ac charger together with the supplied USB cable to provide ac power to your tablet and charge the battery.
- **USB cable**: Use the USB cable to connect your tablet to a personal computer for data transfer, or use it together with the ac charger to charge your tablet.
- **ThinkPad Tablet Pen** (for some models): If your tablet is equipped with a ThinkPad Tablet Pen, use it to input text or draw graphics in a natural manner and perform other operations without touching the screen with your finger. If your tablet is sold without the pen, it is available as an option from Lenovo at http://www.lenovo.com/accessories/services/index.html. For more information, see "Using the ThinkPad Tablet Pen" on page 16.

Features

Processor
- NVIDIA Tegra 2 dual-core ARM processor

Operating system
- Android 4.0

Memory
- 1 GB

Internal storage
- 16 GB, 32 GB, or 64 GB (depending on the model)

Display
- Damage-resistant Corning Gorilla glass
- Size: 257 mm (10.1 inches)
- Screen resolution: 1280 x 800 pixels
- Automatic brightness control
- Multitouch technology
- Thin Film Transistor Liquid Crystal Display (TFT LCD) technology
- Support for battery-powered ThinkPad Tablet Pen input

Integrated cameras

- Front-facing camera, 2 megapixel
- Rear-facing camera, 5 megapixel

Connectors

- One mini HDMI connector
- One USB 2.0 connector
- One micro USB connector
- One ThinkPad Tablet Dock connector

Card slot or card reader

- SIM card slot
- 3-in-1 media card reader

GPS and wireless features

- Wireless LAN
- Bluetooth 2.1
- Wireless WAN (on some models)
- Global Positioning System (GPS) satellite receiver

Specifications

Size

- Width: 260.4 mm (10.3 inches)
- Depth: 181.7 mm (7.2 inches)
- Height: 14 mm (0.55 inches)

Battery

- 24.1 Wh 3250 mAh Li-Polymer battery

Power source (ac charger)

- Sine-wave input at 50 to 60 Hz
- Input rating of the ac charger: 100 V ac to 240 V ac

Operating environment

- Maximum altitude without pressurization: 3048 m (10 000 ft)
- 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 80%
- 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 extreme hot or cold areas.

Chapter 2. Getting started

This chapter helps you quickly start using your tablet.

Initial setup instructions

To use the tablet the first time after you take it out of the box, ensure that you follow the instructions below:

1. Use the supplied USB cable and ThinkPad Tablet AC Charger to connect the tablet to an electrical outlet.

2. Press and hold the power button for four or five seconds to turn on the tablet.

3. Follow the onscreen instructions to complete the initial setup.

4. Before you use the tablet, fully charge the battery first. It might take three to seven hours to fully charge the battery. The actual charging time is affected by the initial battery power level. For detailed information about battery charging, see "Charging the battery" on page 29.

Your Google Account

To optimize your tablet capabilities, register and sign in to a Google Account to use Google applications, download applications from Google Play, back up your settings and other data to Google servers, and take advantage of other Google services on your tablet.

Note: An Internet connection is required to create or sign in to a Google Account. Ensure that your tablet has an active Wi-Fi or mobile data connection (2G or 3G) before you register or sign in.

Creating a Google Account

To create a Google Account, do the following:

1. Open Android Settings and touch **Accounts & sync ➜ ADD ACCOUNT**.

2. Touch **Google Accounts** from the account type list.

3. Touch **Create account**, and then follow the instructions on the screen to create your account.

Adding and removing a Google Account

To add a Google Account, do the following:

1. Open Android Settings and touch **Accounts & sync ➜ ADD ACCOUNT**

2. Touch the account type that you want to add.

3. Type your account information and touch **Sign in**.

4. Follow the instructions on the screen to finish adding the account. All the added accounts are listed on the Accounts & sync screen.

To remove a Google Account, touch the account from the accounts list on the Accounts & sync screen. Touch the menu icon ▉. Then touch **Remove account**.

Synchronizing your Google Account with your tablet

The changes you make to any added account on the tablet or on the Web can be automatically synchronized with each other. By default, the auto-sync function is enabled.

If you want to synchronize your accounts with your tablet manually, do the following:

1. Go to the Accounts & sync settings screen.

2. Touch the account that you want to synchronize with your tablet.

3. Configure the items that you want to synchronize.

4. Touch the menu icon ![icon]. Then touch **Sync Now**.

Home screens

As the starting points to use your tablet, Home screens display the status of your tablet and provide you with access to applications.

There are five Home screens. By default, the main Home screen is displayed whenever you turn on your tablet or press the Home button. Touch a blank area on the screen and slide your finger left or right horizontally to view the other Home screens.

Note: The available widgets and application shortcuts on Home screens might vary by geographic location.

You can customize the five Home screens to meet your personal preferences. For example, you can change the main Home screen, add or remove widgets or applications, change the wallpaper, and so on. For more information, see "Customizing your Home screens" on page 12.
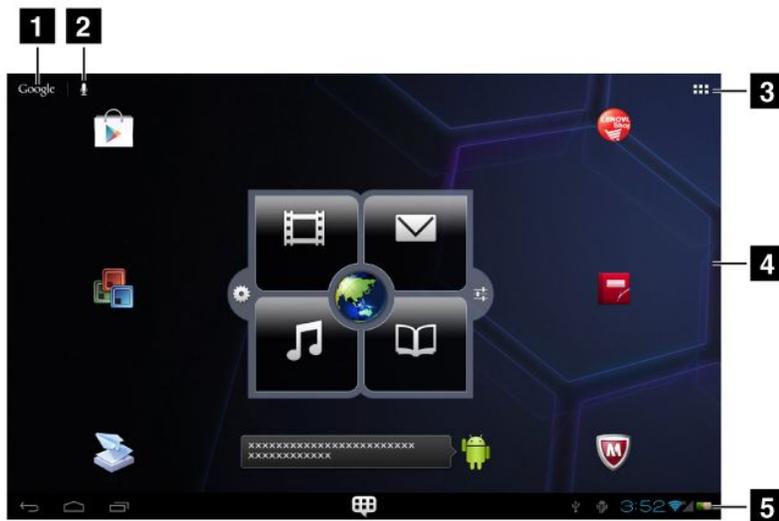
Figure 4. Home screen

1 Google Search	4 Desktop
2 Google Voice Search	5 System bar
3 Applications	

1 Google Search

![Q Google icon]: Search for information on the Internet. See "Searching the Internet" on page 33 for more information.

2 Google Voice Search

![mic icon]: Search for information on the Internet by speaking. See "Searching the Internet" on page 33 for more information.

3 **Applications**

: Open the application library to view all installed applications and widgets, add applications and widgets to Home screens, and change the default main Home screen.

4 **Desktop**

The desktop is the area where you place widgets, application shortcuts, and application folders for your personal convenience.

5 **System bar**

The system bar at the bottom of a Home screen displays status icons, notification icons, the current time, and several device controls:

- Back : Go back to the previous screen.

- Home : Return to the main Home screen at any time in any application.

- Recent Apps : Open a list of thumbnail images of applications you have launched recently. To switch to an application, touch the thumbnail. To close an application, touch and hold the thumbnail to bring up the pop-up menu, and then touch **Remove from list**.

- Favorite Apps : Display thumbnail images of your favorite applications. Touch a thumbnail to launch the application. To add an application to or remove an application from the Favorite Apps utility, open the edit view by touching and holding the Favorite Apps icon. Then, follow the onscreen instructions to perform further operation.

- Time, status, and notification area:

  The right side of the system bar displays time, system-status icons, and notification icons.

  When you touch the time area, the Status Details panel opens displaying the current time, date, wireless connection status, and battery status.

  When any notifications are present, the summary is listed below the status details. Touch a notification to view the detailed information.

  When you touch anywhere in the Status Details panel, the Quick Settings panel is displayed below the status details. Through Quick Settings, you can adjust the display brightness level, enable or disable a feature, such as mobile network connection, Wi-Fi, GPS, Bluetooth, Airplane mode, Email sync, screen orientation, and so on.

  To close the Quick Settings panel, touch anywhere else on the screen.

Using Lenovo Launch Zone

By default, a Lenovo-unique widget named Lenovo Launch Zone is displayed at the center of the main Home screen. Lenovo Launch Zone provides you with easy access to Android settings, notifications for the latest updates from Lenovo, and customizable launch points to your favorite applications.
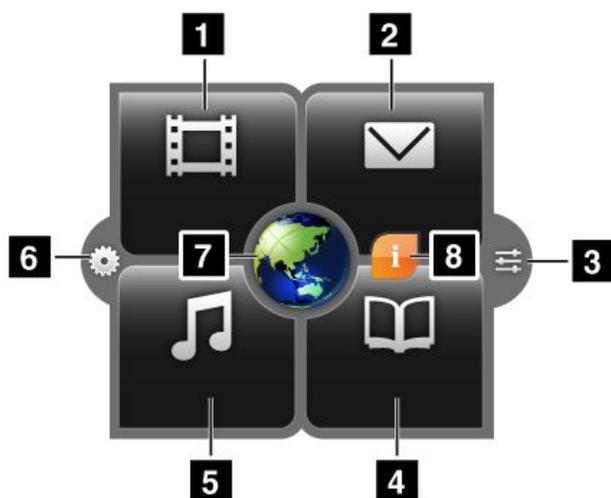
Figure 5. Lenovo Launch Zone

Note: Default applications in Lenovo Launch Zone vary by geographic locations.

1 Watch	Launch the default video player to watch movies or videos.
2 Email	Launch the default e-mail application to read and send e-mails.
3 Android settings	Open the Android Settings screen to configure your tablet settings.
4 Read	Launch the default e-book reader to read books, magazines, or other written contents.
5 Listen	Launch the default music player, radio player, or music download site to listen to music, radio broadcasts, or audio books.
6 Lenovo Launch Zone settings	Open the Lenovo Launch Zone settings screen to change the color of Lenovo Launch Zone or change the configuration of each launch point.
7 Browser	Open the default browser.
8 Features and messages	Receive information and tips about your tablet, as well as special offers in configured categories. This icon is displayed only when there are unread system notifications from Lenovo. Touch this icon to view details of the notifications.

Lenovo Launch Zone is fully customizable through the Lenovo Launch Zone settings icon **6**. The five predefined zones, **1 2 4 5** and **7**, can be changed to launch points for other installed applications. To do so, touch the Lenovo Launch Zone settings icon **6** and change the settings of each zone as you wish.

Customizing your Home screens

Because the Home screens are the starting points for you to use your tablet, you might want to customize the Home screens to meet your personal preferences. Read this topic to learn how to customize your Home screens by adding an item to a Home screen, rearranging the Home screens, resetting the main Home screen, and changing the wallpaper.

Adding an item to a Home screen

To add an application, widget, or other item to a Home screen, do the following:

1. Go to the application library and touch the **APPS** tab or the **WIDGETS** tab to select the item that you want to add.

2. Touch and hold the item and drag it to the desired Home screen.

Creating an application folder on a Home screen

If you wish to manage applications on a Home screen by function or by whatever category, create application folders on the Home screen to group such applications. To create an application folder, simply drag an application onto another. Then touch the grouped icon and touch and hold **Unnamed Folder** to name the folder.

Moving a Home screen item

To move an item on a Home screen, do the following:

1. Touch and hold the item you want to reposition until it magnifies and becomes movable. Do not lift your finger.
2. Drag the item to a new location on the same Home screen and release your finger. If you want to move the item to another Home screen, hold and drag the item to the left or right outline of another Home screen until the desired Home screen opens, and then release your finger.

Removing an item from a Home screen

To remove an item from a Home screen, do the following:

1. Touch and hold the item you want to remove until it becomes movable.
2. Drag the item to the **Remove** icon displayed on the top of the screen.
3. Release your finger when the **Remove** icon glows red.

Changing the Home screen wallpaper

To change the Home screen wallpaper, do the following:

1. Touch and hold a blank area of a Home screen. A pop-up menu is displayed
2. Touch a source (Gallery, Live Wallpapers, or Wallpapers) to view available wallpapers.
3. Touch the wallpaper you want to use. Then touch **Set wallpaper**.

Changing the main Home screen

1. Go to the application library and touch the **OPTIONS** tab.
2. Touch and hold the home icon , and then drag it to another location above the Home screen that you want to set as the main Home screen. The selected Home screen is highlighted in green.
3. Release your finger. The selected Home screen becomes the main Home screen.

Reordering the Home screens

If you want to reorder the Home screens, do the following:

1. Go to the application library and touch the **OPTIONS** tab.
2. Touch and hold a Home screen and drag it to a new location. The target location is highlighted with a green line.
3. Release your finger. The Home screen is moved to the new location.

Using the multitouch screen

This topic provides instructions on how to use the multitouch screen.

Touch

Tap gently on the screen with your fingertip to launch an application, select an item, open a menu, or type text using the onscreen keyboard.

Touch and hold

Touch and hold an object or a blank area on the screen until an action occurs.

Drag

To move an item such as an image and an icon on the screen, touch and hold your finger on the item, move your finger to the desired location, and then take your finger off the screen.

Swipe or slide

Move your finger in a vertical or horizontal direction on the screen to scroll through Home screens, Web pages, lists, picture thumbnails, and so on.

Zoom

- **Zoom out**: Move two fingers close together on the screen as if you are picking something up to reduce the view of an image or a Web page.
- **Zoom in**: Move two fingers apart on the screen to enlarge the view of an image or a Web page.

Double-tap

For some applications, quickly tap twice on the screen to zoom in. Double-tap again to zoom out.

Edit

- To cut or copy text, do the following:
    1. Touch and hold the word you want to use until the edit menu is displayed at the top of the screen. The selected word is highlighted and two selection tabs are displayed under the word.
    2. Drag either selection tab to expand or reduce the range of the selected text. If you want to select all text, touch **SELECT ALL** from the edit menu.
    3. Touch **CUT** or **COPY** from the edit menu. The text is saved to the clipboard.
- To paste text, do the following:
    1. Touch and hold the area where you want to paste the text that you cut or copied. A pop-up option is displayed.
    2. Touch **PASTE** to paste the text.

Rotate the screen

Your tablet has a built-in motion sensor that supports the screen auto-rotation feature. By default, this feature is enabled. When you rotate the tablet, the screen automatically rotates to landscape or portrait view.

To disable the screen auto-rotation feature, do one of the following:

- Press the screen rotation lock button from the right side of your tablet.
- Open the Quick Settings panel and switch off **Auto-rotate screen**.
- Open Android Settings and touch **Display**. Then clear the **Auto-rotate screen** check box.

Note: Some applications do not support the screen auto-rotation feature.

Using the onscreen keyboard

The onscreen keyboard is displayed automatically anytime you need to type. It automatically rotates to either the portrait or landscape view based on the tablet orientation. Use the onscreen keyboard to type text, numbers, symbols, and other characters.

Your tablet is preinstalled with the Android keyboard and the FlexT9 keyboard. You can download more input methods from Google Play.

Typing text, numbers, symbols, and other characters

When you need to type text, touch the text field to bring up the onscreen keyboard, then touch keys on the keyboard to type. To close the onscreen keyboard, touch the down arrow icon ⌄ from the system bar.

- **For the Android keyboard**:

  Touch the shift key ⇧ to capitalize the character. Double-tap the shift key to make all characters capitalized. By default, the auto-capitalization function is enabled when you are typing English.

  To type numbers and symbols, touch the 123 key ?123 to switch to the numbers and symbols keyboard.

  To input text by speaking, touch the microphone key 🎤 to start speaking.

- **For the FlexT9 keyboard**:

  Touch the shift key ⇧ to capitalize the character. Double-tap the shift key to make all characters capitalized. By default, the auto-capitalization function is enabled when you are typing English.

  To type numbers and symbols, touch the 123 key 123 to switch to the numbers and symbols keyboard.

  If you prefer to input text by writing, touch the pen key ✎ to enable the handwriting mode.

Changing the input method when typing

To change the input method when typing, do the following:

- **For the Android keyboard**:

  1. Touch and hold the settings key ⇄ to bring up the input method selection dialog box.
  2. Touch the desired input method from the list.

- **For the FlexT9 keyboard**:

  1. Touch and hold the 123 key 123 to bring up the FlexT9 input method selection dialog box.
  2. Touch **Select Input Method**.
  3. Touch the desired input method from the list.

Using the onscreen keyboard in other languages

To configure the input language, do the following:

1. Open Android Settings and touch **Language & input**. All the input methods are listed.

2. Locate the input method you are using and touch the settings icon ▤.

3. Configure the language settings.

4. Touch the back icon ⬅ when you are done.

If you have configured multiple languages for the Android keyboard input method, and want to switch to another language when you are typing text, do the following:

1. Touch and hold the settings key ![key] on the keyboard or touch the keyboard settings icon ![keyboard] from the system bar to bring up the input method selection dialog box.

2. Touch the desired language from the list. The selected language is displayed on the space key.

Dictionary

Your tablet has dictionaries in many languages that can be helpful when composing messages and documents. The appropriate dictionary is activated automatically when you touch a supported keyboard.

The active dictionary suggests corrections or completes the word while you type. You do not need to interrupt your typing to accept the suggested word.

- **Accepting or rejecting dictionary suggestions**

  To accept a dictionary suggestion, touch the correct word when the dictionary suggestion is displayed. To reject a dictionary suggestion, finish typing the word that you want, and then touch the space key.

- **Correcting a word using the dictionary suggested corrections**

  If you misspell a word, the word is underlined with a red line. Touch the misspelled word and a list of suggested corrections is displayed. Touch the one that best matches your word. The misspelled word is replaced.

You also can create your own dictionary by using the **Personal dictionary** function.

To add a word to your dictionary, Open Android Settings and touch **Language & input ➝ Personal dictionary ➝ Add**.

Disabling the onscreen keyboard

If you prefer to use a physical keyboard, just connect an external USB keyboard or a wireless Bluetooth keyboard to your tablet. The onscreen keyboard is disabled automatically.

Using the ThinkPad Tablet Pen

The battery-powered ThinkPad Tablet Pen enables you to input text in a natural manner, as well as taking notes, annotating PDF files, and drawing graphics together with applications capable of editing and sketching, such as ezPDF and Notes Mobile.

Some tablets are equipped with a ThinkPad Tablet Pen as a standard feature. For tablets that are shipped without the ThinkPad Tablet Pen, you can order a pen from Lenovo at http://www.lenovo.com/accessories/services/index.html.
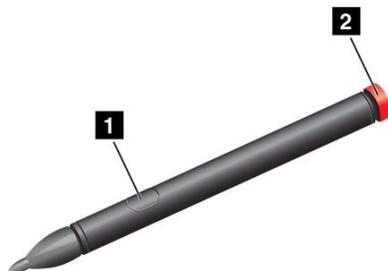
Figure 6. ThinkPad Tablet Pen overview

To use the ThinkPad Tablet Pen, hold the pen and gently touch the screen with the tip to accomplish actions such as touch, touch and hold, drag, and slide. You also can touch an item or a blank area with the pen tip and then press the active button **1** to imitate a touch-and-hold operation. To drag and drop an object with the pen, press and hold the action button **1**, touch the object with the pen tip, and then drag the object to the desired location.

If the battery power runs out, the active button **1** stops functioning. Unscrew the battery cap **2** and remove it to replace the battery.

When drawing or writing with the pen, hold the pen vertically to achieve the best line quality.

Note: The ThinkPad Tablet Pen uses one AAAA alkaline battery.

Use the pen instead of your finger in the following conditions:

• When you need precise and detailed input, such as drawing a picture or using handwriting mode

• When too many elements are crowded on the screen, for example, when you are playing games

• If you want to keep your screen free from smudges

• If you have long fingernails and it is difficult for you to type

When you are using the ThinkPad Tablet Pen, you can disable the finger interaction with the screen to avoid accidental input by finger or hand touch. To disable the finger interaction with the screen, do either of the following:

• Open the Quick Settings panel and switch on **Pen only**.

• Go to the Android Settings screen and touch **Display ➜ Use Pen Only for Touch Events**.

Your tablet provides a storage slot and string holes for the ThinkPad Tablet Pen. When you are not using the ThinkPad Tablet Pen, store it in the tablet. If you need to use the pen frequently, string the pen to the string holes to avoid losing it. To locate the storage slot and string holes, see "Tablet layout" on page 1.

Screen lock mode

Use the screen lock mode to prevent unauthorized access to your data when the tablet is not in use.

To lock the screen, press the power button once. The screen goes blank and the tablet enters into sleep mode in seconds.

To unlock the screen, press the power button again to bring up the locked screen. Then touch and drag the lock icon 🔒 to the right until it circles the unlock icon.
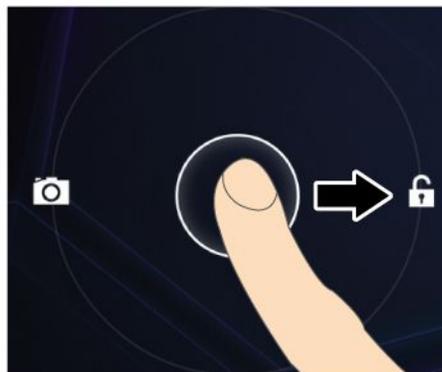
If you have an unlock mode set, input the correct information (password, PIN, or pattern) to unlock the screen. For more information, see "Locking the tablet screen" on page 53.

You cannot perform any work on the tablet while it is in sleep mode. However, if the tablet was playing music when it was put in sleep mode, the tablet continues playing music while it is in sleep mode and the volume buttons still function.

From a locked screen, you can perform the following operations without unlocking the screen:

• Use the camera to take pictures or videos.

• Check for notification messages.

• While listening to music, manage music tracks and check for music albums.

For the security and power-saving purposes, by default, the tablet is configured to lock the screen automatically after several minutes of inactivity. If you want to change the duration of inactivity that elapses before the tablet enters the lock mode automatically, do the following:

1. Open Android Settings and touch **Display → Sleep**.

2. Select the duration you prefer.

For the longest battery life between charges, select the shortest convenient duration.

Checking for installed widgets and applications

A widget is a small application that you can place on a Home screen to provide quick and easy access to information, an application, or a function. An application is a software program that enables you to perform a specific task.

To check for all of your applications and widgets, including those you downloaded from Google Play and Lenovo App Shop, touch the applications icon [icon] from a Home screen to open the application library. Then touch the **APPS** tab or the **WIDGETS** tab to view all items. From the application library, touch an item to launch it, or hold and drag an item to add it to the desired Home screen.

The following tables provide brief introduction to some widgets and applications that might be preinstalled on your tablet.

Note: Some of the listed applications and widgets might not be available on your tablet. Preinstalled applications and widgets vary by geographic locations and are subject to change.

Table 1. Preinstalled widgets

Widget	Description
AccuWeather	View the weather information for your location from the Web.
Amazon MP3	Listen to music from the Amazon music library.
Analog clock	View the current time.
App Shop	Access Lenovo App Shop to download applications and games.
Bookmarks	View URLs you have bookmarked as favorites. Touch a bookmark to go to the desired Web site.
Books	Read ebooks from the web-based Google Books service.
Calendar	Check for the date and scheduled events for that date. Touch to open the Calendar application.
Contact	View selected contacts. Touch to easily get in touch with the contact.
Email	View a list of recently received e-mails. Touch to launch the Email application.

Table 1. Preinstalled widgets (continued)

Widget	Description
Gmail	Check for recently received e-mails from your Gmail account.
Google Search	Search for information on the Internet.
Home screen tips	Read tips on how to perform basic operations with your tablet.
Lock Control	Lock the screen.
Mic Mute Control	Enable or disable the microphone.
Music	Play music or other audio files.
Picture frame	View pictures in the picture gallery.
Slacker Radio	Listen to free radio stations.
Social Touch	View events conducted through various widgets and applications on your tablet, such as Email, Facebook, and Twitter.
Speaker Mute Control	Enable or disable the audio output.

Table 2. Preinstalled applications

Application	Description
Absolute	Activate to use the Absolute Computrace persistence technology, which enables a constant connection to all of the tablets in an IT administrator's deployment.
AccuWeather	Get the weather information for different locations from the Web.
Amazon Kindle	Find, shop for, download, and read Kindle eBooks from the massive selection.
Amazon MP3	Download or purchase music from the Amazon MP3 store.
App Shop	Browse, download, and install games and applications from Lenovo App Shop.
Arcsync	Back up your documents, photos, music files, and videos to the Arcsync server.
BBC news	View international news and listen to the latest news headlines and BBC World Service radio.
Books	Read books that you have downloaded or copied to your tablet.
Browser	Access the Internet.
Calculator	Perform basic arithmetic operations.
Calendar	Arrange scheduled events and set reminder.
Camera	Take pictures and record videos.
Citrix	Connect to your company applications and virtual desktops to check your e-mails, review documents, and view working resources.
Clock	Set up alarms and display the current time.
Docs To Go	View, edit, and create Microsoft® Word, Excel®, and PowerPoint® files, or view PDF files.
Downloads	Manage downloaded files.
eBuddy	Chat online with friends through Web-based instant messaging services such as MSN, Yahoo, Google Talk, and so on.
Email	Manage all your e-mail accounts in this single application.
Flash Player Settings Manager	Manage global privacy settings, storage settings, security settings, and automatic notification settings of the content and applications that run in Adobe Flash Player.
Gallery	View all pictures or videos that you have taken with the cameras.
Gmail	Send or receive e-mails using your Gmail e-mail box.

Table 2. Preinstalled applications (continued)

Application	Description
Google+	Share your thoughts and photos with different groups of people.
Google Search	Search for information on the Internet.
Latitude	View the locations of your friends on Google Map and share or hide your location.
Lenovo Mobility Manager	Configure IT policies and apply the policies to individual tablets in a working environment.
Maps	Find locations and get directions with Google Maps.
Play Store	Browse, download, and install applications from Google Play.
McAfee Security	Protect your personal data against viruses and spyware, as well as in the event of loss or theft.
Messaging	Send text messages to your friends, colleagues, and family.
mSpot Movies	Rent your favorite movie to watch it.
mSpot Music	Listen to on-line music or buy music album.
Music	Play music stored on your tablet or music stored on an optionally installed flash media card.
Navigation	Get directions to your destination.
Netflix	Rent movies to watch.
Notes Mobile	Take notes or draw sketches.
ooVoo	Make video calls with your friends, colleagues, and family.
People	Save and manage the information of your contacts.
PokeTALK	Make international calls to landline or cellular phone numbers.
PrinterShare for Lenovo	Print pictures and documents to Wi-Fi printers shared on your Local Area Network (LAN) or remote printers over the Internet.
Settings	Configure your tablet settings.
Slacker	Listen to over 100 free expert-programmed radio stations from every genre or create your own custom stations.
Social Touch	View events conducted through various widgets and applications on your tablet, such as Email, Facebook, and Twitter.
Talk	Chat with other Google Talk users.
USB File Copy Utility	Manage and transfer data between a USB storage device and your tablet.
User Guide	View the User Guide in your system default language.
Voice Search	Perform a search by speaking your search terms.
YouTube	View and upload YouTube videos from your tablet.
Zinio	Purchase and view digital magazines from Zinio.

Downloading games and applications

To extend the functionality of your tablet, download and install additional applications from Google Play and Lenovo App Shop. Both Google Play and Lenovo App Shop provide an easy and quick way for you to shop for games and mobile applications.

Downloading games and applications from Google Play

To download or buy an application or a game from Google Play, do the following:

1. Open the application library and touch the **Play Store** icon.

2. Sign in to Google Play with your Google Account. If you do not have a Google Account, follow the instructions on the screen to create an account.

3. If you are launching this application for the first time, read the terms and conditions and touch **Accept**. The Google Play screen is displayed.

4. Scroll and browse listed applications or games to locate the desired application or game. Touch the application or game to view detailed information.

5. On the application details screen, touch **Download** or **Buy** and follow the instructions on the screen to start the download and installation. The downloading icon is displayed on the system bar.

6. When the download finishes, touch the time area from the system bar to bring up the notification messages.

7. Touch the installed application on the list and follow the instructions on the screen to use it.

Downloading games and applications from Lenovo App Shop

To download or buy an application or a game from Lenovo App Shop, do the following:

1. Open the application library and touch the Lenovo **App Shop** icon.

2. Scroll and browse listed applications or games to locate the desired application or game.

3. Touch the application or game, and then follow the instructions on the screen to download and install it.

Chapter 3. Wireless networks and devices

Your tablet can connect to a variety of networks and devices, including mobile networks (2G or 3G), Wi-Fi data networks, and Bluetooth devices.

Note: Some tablet models can connect to both mobile networks (2G or 3G) and Wi-Fi networks, while others can connect to Wi-Fi networks only. If your tablet supports Wi-Fi connection only, the information related to mobile networks does not apply to your tablet.

Installing the SIM card

If your tablet supports mobile network connection, it might require a SIM card to connect to a mobile network. Depending on the country of delivery, the SIM card might be shipped with your tablet or you need to purchase one from the service carrier.

Attention: When installing or removing the SIM card, do not touch the SIM card metal connectors. As a precaution, always hold your tablet in your hand before you install or remove the SIM card to avoid electrostatic discharges.

To install a SIM card, do the following:

1. Turn off the tablet by pressing the power button for a few seconds, and then touch **OK** from the **Power off** menu.

2. Open the SIM card slot cover and locate the SIM card slot. To locate the SIM card slot, see "Tablet layout" on page 1.

3. Hold the SIM card with the metal contacts facing down, and then insert it firmly into the SIM card slot until you hear a click.

4. Close the SIM card slot cover and restart your tablet.

To remove the SIM card, after you turn off the tablet, push the SIM card inward until you hear a click. The SIM card ejects. Gently slide the SIM card out of the slot.

Determining which mobile network you are using

For some networks, you can check the network name to see which mobile network you are using.

To check the network name, Open Android Settings and touch **Mobile networks**.

Disabling data roaming on mobile networks

Disable the data roaming function to avoid unwanted charges when you are traveling with your tablet to areas covered by other carriers' mobile networks.

To disable the data roaming function, Open Android Settings and touch **Data usage**. Then switch off **Mobile data**.

Limiting mobile data connection to 2G networks

If your battery power is low and you are unable to charge the battery, limit the mobile data connection to a 2G network to extend your battery life. A slower network connection consumes less power.

Note: When you are connected to a 2G network, you might want to postpone activities that transmit a lot of data, such as sending, uploading, or downloading pictures or videos, until you can charge your battery and connect your tablet to a faster mobile network or other wireless network.

To limit data connection to a 2G network, open Android Settings and touch **Mobile networks** ➔ **Use only 2G networks**

Editing or creating a GSM access point name

If your tablet connects to a Global System for Mobile Communications (GSM) mobile network (2G or 3G), and you need to edit the settings for an existing access point name (APN) or create a new APN, you must obtain the APN and detailed settings from your service carrier.

To edit or create a new APN, do the following:

1. Open Android Settings and touch **Mobile networks** ➔ **Access Point Names**.
2. Touch an existing APN to edit it or touch **New APN** to create a new one. Enter the APN settings that you obtained from your carrier by touching each setting that you need to edit.
3. When you are finished, touch **Save**.

Connecting to a mobile data network

A SIM card is required to connect to a mobile network. Refer to "Installing the SIM card" on page 23 for instructions on how to install a SIM card.

Note: Some tablets support access to Wi-Fi networks only. See "Connecting to a Wi-Fi network" on page 25 for instructions on connecting to a Wi-Fi network.

Depending on your tablet model and place of purchase, you might be guided to connect to your mobile network as soon as you turn on the tablet for the first time and configure the initial setup. During the initial setup, if a SIM card is detected, you are given the option to activate your mobile network account.

If you chose not to activate your account at that time, you can activate your mobile network account after you install a SIM card by doing the following:

1. Open Android Settings. Touch **Data usage** and switch on **Mobile data**.
2. Touch **Mobile networks** ➔ **Activate device** and follow the instructions on the screen to activate your mobile network account and connect to the mobile network..

To manually select a network, do the following:

1. Open Android Settings and touch **Mobile networks** ➙ **Network operators** ➙ **Search networks**. The list of mobile data networks currently available is displayed.

2. Touch a network from the network list, and then follow the instructions on the screen to establish the connection.

Note: If you use a mobile data network, you might have to sign up for a data plan with your service carrier in your area. With some carriers, you can choose a data plan, track your data usage, and change or cancel your plan. With some plans you pay based on the amount of data used, while with other plans you pay a fixed fee for unlimited data use.

Connecting to a Wi-Fi network

Wi-Fi is a wireless networking technology that provides network access at distances of up to 100 meters (328 feet) depending on the Wi-Fi router and your surroundings. You can connect any ThinkPad Tablet to a Wi-Fi network.

A Wi-Fi connection requires access to a functioning Wireless Access Point (WAP), also called a hotspot. Some hotspots are open to the public, but some others implement security features to limit access to specific groups or individuals.

Note: The range and 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.

Connecting to a Wi-Fi network

To establish a Wi-Fi network connection, do the following:

1. Open Android Settings and switch on Wi-Fi. A list of available networks is displayed.

2. Touch a Wi-Fi network to connect to it. If the network is secured, type the required password or other credentials.

Your tablet supports the proxy feature for Wi-Fi connection. The proxy feature enables you to access more Web-based source and browse Internet more securely. If you want to configure the proxy settings when you are connecting to a Wi-Fi network, select the **Show advanced options** check box. For more information about proxy settings, consult your IT administrators.

When you are connected to a Wi-Fi network, touch its name on the Wi-Fi settings screen for details about the speed, security, address, and related information.

Adding a Wi-Fi network

If you want to access a Wi-Fi network that does not broadcast its network name (also called a service set identifier or SSID), you must add that Wi-Fi network before you can connect to it.

To add a Wi-Fi network, do the following:

1. Turn on Wi-Fi first.

2. Open Android Settings and touch **Wi-Fi** ➙ **ADD NETWORK**.

3. Type the required information for the network.

4. Touch **Save**. The information about the network is saved. The Wi-Fi connection will be established automatically the next time you come within the range of this network.

Disabling an automatic Wi-Fi connection

If you do not want the tablet to automatically connect to a specific Wi-Fi network that you had previously configured, do the following:

1. Open Android Settings. Switch on Wi-Fi if it is disabled.

2. Touch the name of the Wi-Fi network.

3. Touch **Forget**. The details of the Wi-Fi network are erased.

Using Bluetooth devices

Bluetooth is a short-range wireless communications technology. Use Bluetooth to establish a wireless connection with another Bluetooth-enabled device over a distance of about 10 m (32.8 ft), such as a Bluetooth keyboard or headset.

Enabling and disabling the Bluetooth function

To enable or disable the Bluetooth function, do either of the following:

- Open the Quick Settings panel and switch Bluetooth to **ON**.

- Open Android Settings and switch Bluetooth to **ON**.

When enabled, the Bluetooth icon is displayed on the system bar. When you are not using Bluetooth, turn it off to extend the battery life.

Changing the Bluetooth name of your tablet

Your tablet has a generic Bluetooth name by default, which is visible to other devices when you are trying to connect to them. You can change this name to your preference to make it more recognizable to you.

To change the name, do the following:

1. Open Android Settings and turn on Bluetooth if it is disabled.

2. Touch **Bluetooth**.

3. Touch the menu icon and touch **Rename tablet**.

4. Type a new name, and then touch **Rename**.

Pairing with a Bluetooth device

To exchange data with another Bluetooth device, pair your tablet with the Bluetooth device by doing the following:

1. Open Android Settings and turn on Bluetooth if it is disabled.

2. Touch **SEARCH FOR DEVICES**. A list of device IDs is displayed.

3. Touch the ID of the Bluetooth device you want to pair with and follow the instructions on both devices to pair them.

4. When the pairing is successful, the device is listed under **PAIRED DEVICES**.

Transferring data between your tablet and a Bluetooth device

After you pair your tablet to a Bluetooth device, you can transfer data between your tablet and the device.

To send a file to the paired Bluetooth device, do the following:

1. Touch and hold the desired item to bring up the options menu.

2. Touch the share icon or **Send**, then touch **Bluetooth**.

3. Receive the file at the connected Bluetooth device. Consult the documentation that came with the connected Bluetooth device for information on how to receive a file.

To receive a file from a connected Bluetooth device, do the following:

1. Send the file to your tablet through Bluetooth from the connected Bluetooth device. For detailed instructions on how to send a file, consult the documentation that came with the connected Bluetooth device.

2. A message is displayed to inform you that there is an incoming file through Bluetooth, and the icon ⚡ is displayed on the system bar of your tablet.

3. Touch the icon from the system bar to bring up the notification message.

4. Touch the notification message. A **File transfer** dialog box is displayed.

5. Touch **Accept** to receive the file.

6. When the file is completely received, the icon ⬇ is displayed on the system bar and a notification is displayed, informing you that the file has been received.

7. Touch the icon ⬇ and then touch the notification message to open a list of files received through Bluetooth.

8. Touch the desired file and follow the instructions on the screen to open it.

To check all the files that you received through Bluetooth, do the following:

1. Open Android Settings and turn on Bluetooth if it is disabled.

2. Touch **Bluetooth**.

3. Touch the menu icon ▮ and touch **Show received files**. A list of received files is displayed.

Unpairing a Bluetooth device

To unpair a Bluetooth device, do the following:

1. Open Android Settings and touch **Bluetooth**.

2. Locate the paired Bluetooth device and touch the settings icon ☰.

3. Touch **Unpair** to erase all pairing information for that device.

Chapter 4. Battery and ac power

This chapter provides instructions on how to charge the battery, how to extend the battery life between charges, and how to view the battery status.

Charging the battery

Your tablet is shipped with a ThinkPad Tablet AC Charger to charge your tablet from any standard ac power outlet.

Note: The battery is not fully charged when shipped.

To charge the battery, do the following:

1. Insert the snap-in prongs into the charger head. Make sure that the connection is secure.
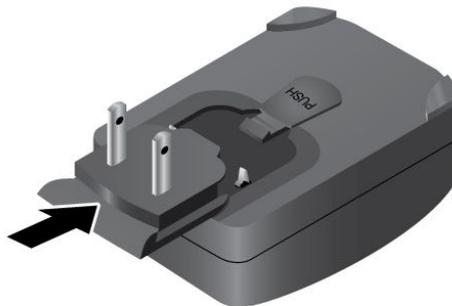
Figure 7. Installing the ac charger

2. Connect one end of the USB cable to the ac charger and the other end to the micro USB connector on the tablet.

Figure 8. Connecting the ac charger with the tablet

3. Plug the ac charger into a standard ac power outlet.

4. Disconnect the ac charger from your tablet when the battery power is full, or leave the ac charger connected to operate from ac power.

Alternatively, you can use any of the following charging methods to safely recharge the internal battery of your tablet:

Charging method	Tablet on (Display is on)	Tablet off or in screen lock mode (Display is off)
ThinkPad Tablet Dock (fastest charging method)	Approved	Approved
ThinkPad Tablet AC Charger	Approved, but the battery will charge slowly	Approved
ThinkPad Tablet DC Charger	Approved, but the battery will charge slowly	Approved
A USB connection between the micro USB connector on the tablet and a USB connector of a personal computer or other device that complies with the USB 2.0 standards (slowest charging method)	Might not charge due to USB 2.0 power limits. If the power consumption of the tablet exceeds USB 2.0 power limits, the battery will discharge to compensate for the additional power required by the tablet.	Approved

Attention: Use only Lenovo approved chargers. Unauthorized chargers could cause severe damage to your tablet.

Extending the battery life between charges

When you are traveling outdoors with your tablet and the ac power is not available, you can extend the battery life by doing the following:

- **Turn off Bluetooth, Wi-Fi, and GPS when not in use**.

  To turn off Bluetooth, Wi-Fi, and GPS, do the following:

    1. Touch the time area from the system bar to open the Status Details panel.
    2. Touch anywhere in the panel. The Quick Settings panel is displayed.
    3. Either switch on **Airplane mode** to disable all wireless connections, or switch off **Bluetooth**, **Wi-Fi**, and **GPS** to disable the features.

- **Turn off automatic synchronization for Gmail, Calendar, Contacts, and other applications if you do not need them**.

  To turn off the automatic synchronization function, Open Android Settings and touch **Accounts & sync**. Then switch off the auto-sync function from the top-right corner.

- **Lower the brightness of your screen.**

  Follow either of the following procedures to lower the brightness level of your screen:

    - Open the Quick Settings panel. Locate the screen brightness icon and then drag the slider to the left to lower the screen brightness.
    - Open Android Settings and touch **Display** ➙ **Brightess**. Drag the slider to the left to lower the screen brightness.

- **Turn off the screen when the tablet is temporarily not in use.**

  Press the power button to turn off the screen.

- **Power off your tablet if the tablet will not be used for a while.**

  To turn off your tablet, do the following:

    1. Press and hold the power button until the **Power off** menu is displayed.
    2. Touch **OK**.

Checking the battery status

Get the approximate status of your battery at any time by checking the battery status icon on the system bar.

To check for the accurate status, touch the battery status icon from the system bar to open the Status Details panel. The remaining battery power percentage is displayed in the panel.

You also can get much more detailed battery status by doing the following:

1. Open Android Settings and touch **About tablet**.
2. Touch **Battery** to check which applications are consuming battery power.

If you have used your tablet for a long time, check the battery condition and determine if the battery should be replaced with a new one by doing the following:

1. Open Android Settings and touch **About tablet** ➙ **Status**.
2. If **Battery condition** shows **Poor**, contact Lenovo for further instructions. The battery might need to be replaced with a new one.

Chapter 5. Using your tablet

This chapter provides instructions on how to use some basic applications and many of your tablet's features.

Browsing the Internet

Use the browser to surf the Internet and search for information on the Web.

Note: If you choose to use a mobile data network, you might have to sign up for a data plan with your service carrier in your area. With some carriers, you can choose a data plan, track your data usage, and change or cancel your plan. With some plans you pay based on the amount of data used, while with other plans you pay a fixed fee for unlimited data use.

Using the browser

To open the browser, do one of the following:

- Touch the Browser icon from the predefined Lenovo Launch Zone.
- Press the Browser button on the right side of your tablet.
- Open the application library and then touch **Browser**.

When the browser opens, use the following controls to navigate the Web, manage bookmarks, configure the browser's settings, and so on:

- ← Back: Go back to the previous Web page.
- → Forward: Go forward to a recently visited Web page.
- C Refresh: Refresh the current Web page.
- ☆ Bookmark: Bookmark the current Web page.
- Q Search: Use Google Search to search for information.
- ★ Bookmarks: View all bookmarks and the browsing history.

For more options, touch the menu icon ▮.

Searching the Internet

By typing or speaking, you can use Google Search or Google Voice Search to search for information on the Web.

Google Search

To search by typing, do the following:

1. From a Home screen, touch the **Google Search** icon.
2. Type a keyword or other text using the onscreen keyboard. As you type, the search results that fully or partially match the text being typed are displayed on a menu below the search box.
3. Do one of the following:
   - Touch one of the search results displayed on the menu.

- Finish typing and then touch the enter key on the Android keyboard (or touch **Go** if you are using the FlexT9 keyboard).

Google Voice Search

You also can search for information on the Web with Google Voice Search.

To search by speaking, do the following:

1. From a Home screen, touch the **Google Voice Search** icon.
2. Touch **Speak now** and speak the name or keyword of the item you want to search.
3. When you finish speaking, Google Voice Search analyzes your speech and the browser opens, displaying the search results.

   Note: If Google Voice Search cannot understand what you say, it presents a list of similar-sounding search terms, which you can touch to continue to search.

Using your tablet for entertainment

Use your tablet to take pictures and videos, listen to music, watch movies, and read books.

Using headphones or earphones

Your tablet has a headphone connector that you can use for a variety of listening devices such as headphones, earphones, and ear buds. Listening with the volume turned up too high for too long can lead to hearing loss. The symptoms of hearing damage might be progressive and not noticed at first.

Take the following precautions:

1. Limit the amount of time you use headphones, earphones, ear buds, or other devices that provide sound directly into your ears.
2. Avoid using high volume to block surrounding noise.
3. Decrease the volume if you are unable to hear people speaking around you.
4. To ensure that sound pressure levels do not exceed a safe level, use headphones, earphones, or ear buds that comply with EN 50332-2 (Clause 7 Limits).

Using the cameras

Your tablet has two cameras, a front-facing camera and a rear-facing camera. Each camera has an auto-focus feature that enables you to capture high-quality pictures and videos. The rear-facing camera also includes a panorama mode that enables you to take a single image encompassing a wide range scene.

To use a camera, open the application library and touch **Camera**. When the Camera application opens, take pictures or videos by using the following controls:

- Shutter or record icon: Touch to take a picture or start recording a video. A thumbnail of the last taken picture or video is displayed on the top-right corner.
- Camera mode: Use the camera to take pictures.
- Video mode: Use the camera to record videos.
- Panorama mode: Take pictures encompassing a wide range scene in this mode.
- Camera switch: Switch between the front-facing camera and the rear-facing camera.

- Zoom: Touch and hold this icon, then slide to zoom in and out.
- Camera settings: Access additional icons to set exposure, flash, focus, scene mode, white balance, and other settings.

Viewing pictures and watching videos

Gallery stores all your pictures and videos that you have taken with your camera, as well as the ones you downloaded or copied from other source.

To view your pictures and videos, go to the application library and touch **Gallery**. All your picture and video albums are listed on the screen. Use the following onscreen controls to manage or view your pictures and videos:

- : View pictures in a slide-show mode.
- : Share the picture or video through e-mail, Bluetooth, or an application.
- : Delete the picture or video.
- For more options, touch the menu icon .

In addition to playing videos that are stored on your tablet, you also can watch movies online directly using one of the preinstalled video applications, such as mSpot Movies and YouTube.

Note: The Android video player supports limited video formats. If your video files cannot be read by the Android video player, try the preinstalled Lenovo video player or other video applications you downloaded.

Listening to music

Your tablet is preinstalled with the several on-line music applications, such as Amazon MP3 and mSpot Music. These applications enable you to listen to, download, or purchase music from the Web.

To listen to music stored on your tablet, launch the preferred music application from the application library.

Note: Music applications can find your music files anywhere you put them on your tablet.

You can return to the playback screen from any other application by opening the notifications panel and touching the ongoing music notification. To open the notification panel, touch any notification icon from the notification area.

Reading books

To read on-line books and magazines, touch **Read** from the predefined Lenovo Launch Zone to launch the default e-book reader application, or go to the application library to open other e-book readers that you have downloaded from Google Play or Lenovo App Shop.

If you want to read documents that are stored on your tablet, use the Docs To Go application. It enables you to read PDF files, Microsoft Word documents, Excel worksheets, and PowerPoint files.

Working with Email

Use the Email application to read and send e-mails and manage all your e-mail accounts.

You also can set up a Microsoft Exchange account to read and write your work e-mails as you do on a computer. For more information, see Chapter 7 "Using your tablet within an enterprise" on page 51.

Setting up your Email account

To set up an Email account, do the following

1. Touch **Email** from the application library.
2. Type the e-mail address and password of the e-mail account you want to add and then touch **Next** or **Manual setup**.
3. Follow the instructions on the screen to set up your Email account.

Note: If you do not have any e-mail account, register one using Gmail or other applications.

Reading an e-mail

1. Launch the Email application.
2. If you have multiple e-mail accounts, touch the e-mail address from the top-left corner to bring up a list of accounts you have added. Then, touch an e-mail box.
3. Touch an e-mail to read it.

Sending an e-mail

If you want to reply to a received e-mail, touch ⬅ or ⬅⬅ from the top of the received e-mail.

If you want to compose a new e-mail, do the following:

1. Touch the new e-mail icon ✉₊ .
2. Type the recipient's e-mail address and the subject, then compose your message. If you want to add CC or BCC addresses, touch **+CC/BCC**.
3. Touch **Send** to send the e-mail.

Managing accounts

To manage your accounts, do the following:

1. Touch the menu icon ⋮ from any e-mail account view.
2. Touch **Settings**. The Settings screen is displayed.
3. Perform the following actions base on your demand:
   - Touch **Add account** to add more accounts to the Email application.
   - Select an account form the account list and touch **Remove account** to delete the account.
   - Touch an account form the account list and configure the account settings.

Managing your contacts

The People application links and integrates all the contacts of your Google Accounts and corporate account in one application and enables you to reach everyone in a quick and easy way. When you first sign into your Google Account or the corporate account, the existing contacts are synchronized with the People application, and they will auto-sync whenever you make changes. All the contacts information in your People application is available for Gmail, Google Talk, Google+, Messaging, and other applications that need contacts information.

To view your contacts, go to the application library and touch **People**. All the contacts are listed on the screen. Contacts who are currently online and accessible from Google Talk or other networks are marked with a green dot.

To manage or use your contacts, do the following:

- To create a group, touch **GROUPS**. Then touch ![icon].

- To add a new contact, touch **ALL**. Then touch ![icon].

- To edit a contact, touch the contact from the contact list, and then touch ![icon].

- To delete a contact, touch the contact from the contact list, touch the menu icon ![icon], and then touch **Delete**.

- To import contacts from or export contacts to a flash media card or a USB key, touch the menu icon ![icon] and touch **Import/export**. Then follow the onscreen instructions to finish the operation.

- To send an e-mail to a contact, touch the contact from the contacts list and touch the e-mail address.

- To share a contact, touch the contact from the contacts list, touch the menu icon ![icon], and then touch **Share** to share the contact information with your friends through e-mail or Bluetooth.

Using the clock

Use the Clock application to display the date and time in large characters on your screen and to set alarms to sound once or on a repeating schedule.

Setting date and time

By default, your tablet automatically synchronizes the date and time with the Internet. If you want to set the date and time manually, do the following:

1. Open Android Settings and touch **Date & time → Automatic date & time** to disable the auto-synchronization function.

2. Touch **Set date**, **Set time**, **Select time zone**, and other items to set up date and time.

Setting an alarm

To set an alarm, do the following:

1. Launch the Clock application.

2. Touch **Set alarm** and touch **Add alarm** to set the alarm time.

3. Configure the alarm settings and touch **OK**.

Using the screen capture function

The Android 4.0 operating system makes it easy for you to save useful onscreen information and share images of what you see on the screen by taking screen captures.

To take a screen capture, press the power button and the volume down button simultaneously and hold for two seconds. This action automatically saves the screen capture to the image gallery. You can then open the image gallery to edit or share the image.

Working with USB devices

You tablet has a micro USB connector and a full-size USB connector to connect USB compatible devices. Read this topic to learn how to use each connector to connect different devices.

Using the micro USB connector

Use the micro USB connector together with the supplied USB cable to connect your tablet to your personal computer to charge the tablet battery, transfer files, or share your mobile data connection.

When the tablet is connected to your computer through the micro USB connector, a menu is displayed on your tablet with the following options:

- **Low-power charge only. Please turn off your tablet's screen.**

  If you choose this option, turn off the tablet screen by briefly pressing and releasing the power button.

- **Transfer files (MTP)** or **Transfer files (PTP)** (depending on your configuration of the micro USB connection settings)

  Touch this option if you want to copy or move pictures, documents, and other data files from or to your computer. See "Using synchronization solutions" on page 41.

  Note: The picture transfer protocol (PTP) supports only the transfer of pictures.

Note: If you ever set up a screen unlock password, PIN, or a pattern, after you touch any of the options, you are prompted to type the password or PIN, or draw the pattern to continue with the operation.

If you do not want this pop-up menu to be displayed each time you connect the tablet to a computer, disable it by doing the following:

1. Open Android Settings and touch **Storage**.

2. Touch the menu icon . Then touch **USB computer connection**.

3. Touch any option except **Ask on connection**.

Using the full-size USB connector

Use the full-size USB connector to connect a compatible USB device, such as a USB mouse, USB keyboard, or USB memory key. To locate the full-size USB connector on your tablet, see "Tablet layout" on page 1.

Note: The full-size USB connector is compatible with the USB 2.0 standard.

Working with USB storage devices

If you connect a USB storage device to your tablet, use the USB File Copy Utility application to copy files from one device to another, delete files, view file details, and view available space on the storage device.

When a USB storage device is connected to your tablet, a pop-up message is displayed asking you if you want to start the USB File Copy Utility application. Touch **Start Utility** to launch the USB File Copy Utility application. Otherwise, touch **Don't start**.

After you touch **Start Utility** from the pop-up menu, the USB File Copy Utility screen opens, displaying the contents stored on both the tablet internal storage and the connected USB storage device.

To copy an item between your tablet and the USB device, do the following:

1. Touch the name of the desired storage device from the location bar to open the file list for that device.

2. Touch the names of the desired files. When selected, a green check is displayed in the bottom-left corner of the file.

3. Touch **Copy**. A message box opens, displaying a list of available storage locations.

4. Touch a location. The files are copied to the desired location.

Note: Even if you do not connect a USB storage device to your tablet, you can use the USB File Copy Utility application to manage files on your tablet and on an installed flash media card.

To disconnect the USB storage device, do one of the following:

- Unplug the USB device or cable directly.

- Disconnect the device programmatically and then physically as follows:
    1. Open Android Settings and touch **Storage ➜ Unmount USB storage**.
    2. Unplug the USB device safely.

Working with a USB keyboard or USB mouse

If you are accustomed to using a traditional physical keyboard, you can connect a USB keyboard to your tablet. When connected, the onscreen keyboard is disabled automatically and you can start using the USB keyboard immediately.

Keyboards can also be set up through the ThinkPad Tablet Dock's USB connector and Lenovo offers both a ThinkPad USB Keyboard with Trackpoint® and a ThinkPad Edge wireless keyboard and mouse combo that can connect through this port. To purchase these options, go to http://www.lenovo.com/accessories/services/index.html.

For information about using a ThinkPad Tablet Keyboard Folio Case option, see "Using the ThinkPad Tablet Keyboard Folio Case" on page 46.

You also can connect a USB mouse to the tablet. As soon as you connect a USB mouse to the tablet, a pointer is displayed on the tablet screen indicating that the mouse is activated and ready for use.

Using the 3-in-1 media card reader

Your tablet has a 3-in-1 media card reader that supports the following cards:

- MultiMediaCard (MMC)
- Secure Digital (SD) card
- Secure Digital High-Capacity (SDHC) card, FAT32 format, up to 32 GB

Use any one of these cards to extend the storage capability of your tablet. You also can use these cards to share data with a computer or other devices that support these card formats.

To locate the 3-in-1 media card reader, see "Tablet layout" on page 1.

Inserting a flash media card

Attention: Before handling a flash media card, touch a metal table or a grounded metal object. This action reduces any static electricity from your body. Static electricity can damage the card.

To insert a flash media card into the 3-in-1 media card reader, do the following:

1. Open the card reader cover and locate the 3-in-1 media card reader.
2. Make sure that the metal contacts of the card are facing down and pointing toward the tablet.
3. Insert the card firmly into the 3-in-1 media card reader until you hear a click. The card might stop before it is completely installed into the card reader.

Accessing data on your flash media card

When a flash media card is inserted into the 3-in-1 media card reader, a pop-up message is displayed asking if you want to display the contents on the card. To display the contents, touch **Start Utility**. The USB File Copy Utility application launches and you can move files between the tablet and the media card. Otherwise, touch **Don't start**.

Removing a flash media card

To remove a flash media card, do the following:

1. Open the slot cover.
2. Push the flash media card inward a little until you hear a click; then, release it. The flash media card pops out.
3. Gently slide the card out of the card reader.
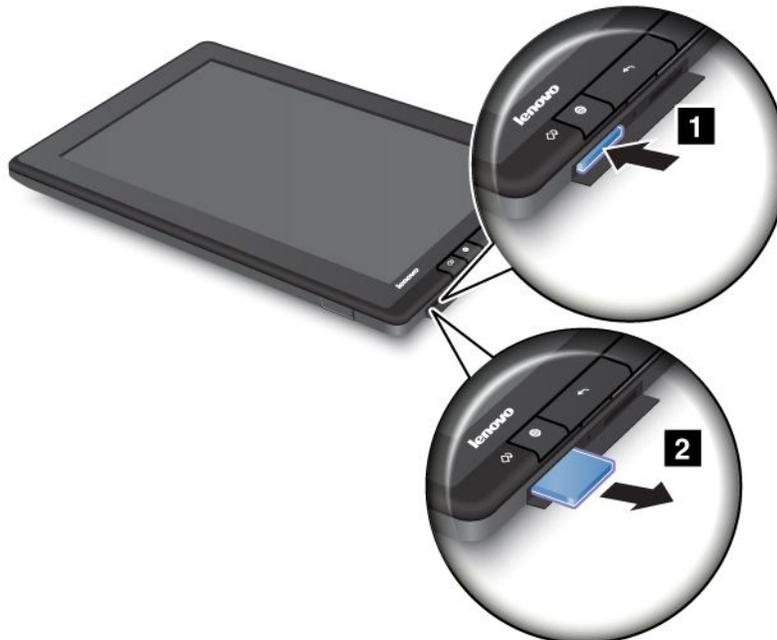
Securing your flash media card

To protect the information from unauthorized access, you can encrypt your flash media card. Refer to "Encrypting the flash media card" on page 54 for more information.

Using HDMI devices

Your tablet has a mini HDMI connector that you can use to connect an external display for video output. To locate the mini HDMI connector, see "Tablet layout" on page 1.

To use an external display for video output, you have to enable the **Attached display** function first from the Quick Settings panel.

When you connect an external display to your tablet through the HDMI connector, your tablet screen image is automatically mirrored on the external display at the highest resolution that the device supports.

If you attach an external display while you are playing a video, the video output is displayed on the external display in a full-screen landscape mode, but the video playback controls are displayed on your tablet.

To disable the image output on the attached display, disconnect the external display from your tablet.

Using synchronization solutions

By using synchronization solutions, you can easily transfer files between your tablet and your computer, and back up your personal information, working documents, media files, and other information with a cloud-based application.

Synchronizing files between your tablet and computer

Your tablet supports the Windows® Device Stage feature, which enables you to synchronize media files and documents between a mobile device and a personal computer. Connect your tablet to your computer through the supplied USB cable to use this synchronization solution.

By default, the micro USB connection setting of your tablet is set as **Media device (MTP)**. When the tablet is connected to your computer for the first time, as soon as the necessary drivers are installed, the Device Stage window is displayed on the computer for you to perform the following tasks:

- Synchronize pictures, videos, and music stored on your computer with your tablet.
- Manage the media files stored on your tablet.
- Use your computer to view files and folders on your tablet.
- Copy pictures and videos from your tablet to your computer.
- Download and install the Docs To Go program on your computer to synchronize Microsoft office documents between your computer and your tablet.
- Name your tablet and set up how you want your tablet to work with the Windows operating system.

Notes:

- Some of the task options might not be available on your computer. Available options vary by the Windows operating system and the Windows operating system version.
- If you change the micro USB connection setting to **Camera (PTP)**, then only pictures and videos can be synchronized.
- On subsequent USB connections, a minimized task icon is displayed on the Windows task bar. Click the icon to bring up the Device Stage window.

Using cloud-based synchronization application

Your computer also might be preinstalled with a could-based synchronization application, Arcsync. The cloud technology enables the application to store massive resources, software, and information on a remote cloud server. Those stored resources, software, and information are the so-called cloud. Through a cloud-based application or a Web browser, users can access the cloud and view or download needed information, as well as uploading files and information to the cloud server.

If your tablet is preinstalled with Arcsync, touch **Arcsync** from the application library to launch it. When the Arcsync application opens, you can upload files to the cloud server by doing the following:

1. Touch **ArcDisc**. The uploaded files are displayed.

2. Touch the menu icon to access additional menus.

3. Touch **Upload**.

Download a could-based synchronization application from Google Play or Lenovo App Shop if the Arcsync application is not available on your tablet.

Sharing your Internet connection

You can share your tablet's mobile data connection with a single computer through USB tethering or Bluetooth tethering. You also can share your Internet connection with multiple devices at the same time by setting your tablet as a portable Wi-Fi hotspot.

Note: The tethering and hotspot functions might not be supported by all carriers.

To share your tablet's mobile data connection through USB:

1. Use the supplied USB cable to connect your tablet to your computer.

2. Open Android Settings and touch **More...** ➜ **Tethering & portable hotspot** ➜ **USB tethering**.

3. The tablet starts sharing its mobile network data connection with your computer.

4. To stop sharing your data connection, clear the **USB tethering** check box. Or just disconnect the USB cable.

To share your tablet's mobile data connection through Bluetooth:

1. Pair your tablet with your computer. See "Using Bluetooth devices" on page 26.

2. Open Android Settings and touch **More...** ➜ **Tethering & portable hotspot** ➜ **Bluetooth tethering**.

3. The tablet starts sharing its mobile network data connection with your computer.

4. To stop sharing your data connection, clear the **Bluetooth tethering** check box.

To share your Internet connection by turning your tablet into a portable Wi-Fi hotspot:

1. Open Android Settings and touch **More...** ➜ **Tethering & portable hotspot** ➜ **Portable Wi-Fi hotspot**.

2. After a moment, the tablet starts broadcasting its Wi-Fi network name (SSID). Now other computers or devices can share the tablet's mobile data connection.

   Note: When your tablet is serving as a Wi-Fi hotspot, you cannot use your tablet to access the Internet through the Wi-Fi connection. However, you can access the Internet through your mobile data network.

3. To stop sharing your data connection through Wi- Fi, clear the **Portable Wi-Fi hotspot** check box.

To secure your portable Wi-Fi hotspot:

1. Open Android Settings and touch **More...** ➜ **Tethering & portable hotspot** ➜ **Configure Wi-Fi hotspot**.

2. Touch the **Security** menu to configure the network with Wi-Fi Protected Access 2 security with a preshared key (WPA2 PSK).

   If you touch **WPA2 PSK**, a password field is displayed in the Configure Wi-Fi hotspot dialog box. After you type a password, you need to type that password the next time you connect to the tablet's hotspot with a computer or other device. To remove the password, touch **Open** on the **Security** menu.

3. Touch **Save**.

Importing Wi-Fi profiles from a ThinkPad notebook computer to your tablet

If you have several Wi-Fi settings profiles that have been configured and saved on a ThinkPad computer, you can capture and import those profiles to your tablet. By capturing and importing existing profiles, you can avoid having to manually configure wireless settings on your tablet. After the process is complete, the tablet automatically connects to the same Wi-Fi networks as the ThinkPad host computer does.

To import Wi-Fi profiles from a ThinkPad computer to your tablet, you can either capture the Wi-Fi profiles from your computer by yourself, or ask your IT administrator to manually generate deployable Wi-Fi profiles and import them into your tablet. For the latter method, consult your IT administrator for further help.

Capturing Wi-Fi profiles from your ThinkPad computer

Notes: To capture Wi-Fi profiles, the host ThinkPad computer must have the following installed:

- Windows 7 operating system
- Latest Access Connections™ program

  If the host ThinkPad computer does not have the latest Access Connections program installed, go to http://www.lenovo.com/support to download it.

To capture the Wi-Fi profiles from your ThinkPad notebook computer, do the following:

1. Install a flash media card into your tablet. The flash media card is used to store the captured Wi-Fi profiles. See "Using the 3-in-1 media card reader" on page 39 for instructions on how to install a flash media card.
2. Connect the tablet to your computer with the supplied USB cable and select **Transfer files (MTP)**.
3. Launch Access Connections from your computer and switch to the **Advanced** view.
4. Click the **Tools** tab and click **Export to Android**. A list of Wi-Fi profiles is displayed.
5. Select the Wi-Fi profiles from the list and click **OK**.
6. Select the **Capture WiFi connection profile** radio button.
7. Browse the installed flash media card in your tablet as the target location to save the Wi-Fi profiles.
8. Click **OK**. The Wi-Fi profiles are saved and stored on the flash media card that is installed in your tablet.
9. Click **OK** again when prompted for confirmation.

Importing Wi-Fi profiles to your tablet

To import the Wi-Fi profiles to your tablet, do the following:

1. Open Android Settings and touch **Wi-Fi**.
2. Touch the menu icon and touch **Advanced**.
3. Touch **Import**.
4. Touch the Wi-Fi profiles you want to import, and then touch **OK**.

5. The selected Wi-Fi profile is imported to your tablet and the Wi-Fi name is listed under **Wi-Fi networks** on the Wi-Fi settings screen. When you are within range of this Wi-Fi network, your tablet will connect to it automatically.

Configuring the wireless network disconnect policy

To get longer battery life, manage your wireless connections more reasonably by configuring the wireless network disconnect policy.

To configure the wireless network disconnect policy, do the following:

1. Open Android Settings and touch **Wi-Fi**

2. Touch the menu icon ▊, and then touch **Advanced**.

3. Touch **Wireless Enhanced Settings**. The following options are displayed. Touch to enable the function or to further configure the setting.

   - **Turn off Wi-Fi when display is off**

     When enabled, the Wi-Fi connection will be disabled after the screen is locked. You can set when Wi-Fi will be turned off after the screen is locked by touching **Set minutes**.

   - **Never turn off Wi-Fi when connect to the specified [SSID]**

     When enabled, even if the first option **Turn off Wi-Fi when display is off** is enabled, the connection to the specified SSID will not be turned off after the screen is locked.

   - **Turn off Wi-Fi on schedule**

     Choose this option to set up a schedule to turn off the wireless connection. For example, you can set the schedule to turn off Wi-Fi from 11:30 am to 2:00 pm every workday.

     Notes:

     – When using this option, do not configure the schedule from the current day. Otherwise, the tablet will turn off immediately disregarding the time schedule.

     – You cannot turn on Wi-Fi during the scheduled Wi-Fi off time.

Using the GPS satellite receiver

Your tablet has a global positioning system (GPS) satellite receiver that enables you to pinpoint your location down to the street level. Use location-based applications such as Google Maps to find your current location, get directions to your destination, and find other location-based information.

To enable the GPS satellite receiver, do the following:

1. Open Android Settings and touch **Location services**.

2. Touch **GPS satellites** to enable it.

Note: For longer battery life, disable the GPS satellite receiver when not in use.

Chapter 6. ThinkPad Tablet options

Your tablet might come with a ThinkPad Tablet Keyboard Folio Case or a ThinkPad Tablet Dock. If your tablet does not come with one, you can purchase one from Lenovo at http://www.lenovo.com/accessories/services/index.html.

The ThinkPad Tablet Keyboard Folio Case and the ThinkPad Tablet Dock are option devices that Lenovo designed specifically for the ThinkPad Tablet. These options provide convenience and make your tablet easier to use for work, study, and entertainment.

ThinkPad Tablet Keyboard Folio Case

The keyboard folio case is not only a book-like cover with a ThinkPad keyboard. It also is a foldable stand that holds your tablet in an upright position and provides a typing experience similar to a notebook computer.

Figure 9. ThinkPad Tablet Keyboard Folio Case overview

1 Keyboard

Works as a USB keyboard with Optical TrackPoint and hot keys.

2 4 Optical TrackPoint

The Optical TrackPoint is a cursor-positioning device that enables to you to point, select, and drag without moving your fingers from a typing position.

For more information, see "Using the ThinkPad Tablet Keyboard Folio Case" on page 46.

3 Hot keys

The hot keys on the keyboard folio case enable you to control many features of your tablet by pressing a single key. Refer to "Using the ThinkPad Tablet Keyboard Folio Case" on page 46 for more information.

ThinkPad Tablet Dock

The ThinkPad Tablet Dock holds your tablet in an upright position and frees your hands to do other tasks. It also provides you easy access to connectors for USB devices, file transfers, charging, audio input, audio output, and video output.

Figure 10. ThinkPad Tablet Dock front view and right side view

1 Dock connector

This connector establishes the connection between the dock and tablet when your tablet is seated in the dock.

2 USB connector

Use to connect USB devices, such as a USB keyboard or USB storage device.

Note: This connector is compatible with the USB 2.0 standard.
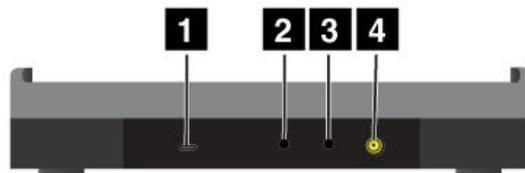
Figure 11. ThinkPad Tablet Dock rear view

1 Micro USB connector

Connect a personal computer with the supplied USB cable for data transfer.

2 Headphone connector

Connect a headphone or powered speakers to listen to the audio output.

3 Microphone connector

Connect a microphone to capture sound.

4 Power connector

Use the 65 W ac power adapter shipped with the dock to provide power to the tablet and charge the battery.

Using the ThinkPad Tablet Keyboard Folio Case

To connect the keyboard folio case to your tablet, do the following:

1. Open the USB cover on the tablet by sliding it to the left.

Figure 12. Opening the USB cover

2. Align the USB connector on the tablet with the USB connector on the keyboard folio case and slide the tablet downward until the two USB connectors are connected.

Figure 13. Installing the tablet into the keyboard folio case

3. When the connection is established, the onscreen keyboard is automatically disabled and the keyboard folio case is activated.

Notice for Using the ThinkPad Tablet Keyboard Folio Case

- To ensure optimum keyboard functionality, use the FlexT9 text input method. To select this method, go to Android Settings and touch **Language & input** ➙ **Default**.

  Note: For Japanese models, use the iWnn IME input method instead of FlexT9.

- To save battery power and prevent accidental data entry, perform one of the following operations before you close the lid of the ThinkPad Tablet Keyboard Folio Case:

  – Turn off the ThinkPad Tablet.

  – Turn off the screen and wait five to ten seconds.

Using the hot keys

The keyboard folio case has several hot keys. Press a hot key to quickly control the corresponding function. To locate the hot keys, refer to "ThinkPad Tablet Keyboard Folio Case" on page 45.

Volume and mute control

- [🔇] Speaker mute

- [🔉−] Speaker volume down

- [🔊+] Speaker volume up

- [🎙✕] Microphone mute

Application control

- [⌂] Open the main Home screen

- [✳] View notifications from Lenovo

- [⛭] Open the Android Settings screen

- [Ctrl ▤] Open the menu for the current application

- [Q] Launch Google Search

Screen control

- [Esc ←] Go back to the previous screen

- [🔒] Lock the screen

- [🔍⊕] Zoom in

- [🔍⊖] Zoom out

Audio and video control

- [⏮] Go to the previous track or scene

- [⏯] Play or pause

- [⏭] Go to the next track or scene

Using the Optical TrackPoint
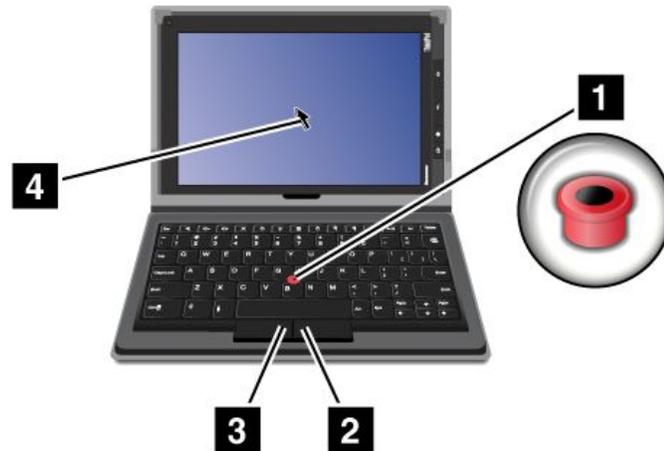
Figure 14. Using the Optical TrackPoint

The Optical TrackPoint consists of a pointing sensor **1** on the keyboard and two click buttons **2** **3** at the bottom of the keyboard. To move the pointer **4** on the screen, slide your finger tip across the top of the point sensor **1** in the direction in which you want the pointer to move. To select an item or open an application, put the pointer **4** on the desired item and press the left button **3**. Press the right button **2** to open the menu for the current application

For more information about the keyboard folio case, refer to the documentation shipped with the keyboard.

Using the ThinkPad Tablet Dock

To connect your tablet to the dock, do the following:

1. Position your tablet with the dock connector side downward.
2. Align the dock connector on the tablet with the connector on the dock.
3. Gently slide your tablet into the dock until it is fully seated as shown in the following illustration.

Figure 15. Sitting your tablet on the dock

After the tablet is in the dock, you can:

- Use your tablet in an upright position without having to hold the tablet.
- Use the dock to hold your tablet upright when using an external Bluetooth keyboard or USB keyboard.
- Connect the dock to your personal computer with the supplied USB cable to transfer files.
- Connect the dock to a stereo system or speakers using a stereo audio cable to play music.
- Connect the dock to an electrical outlet using the 65 W ac power adapter shipped with the dock to charge the tablet battery.

Chapter 7. Using your tablet within an enterprise

Your tablet provides support for secure access to corporate networks and Microsoft Exchange. Additionally, a number of business-related applications are preinstalled to help you work with and manage your work-related documents.

Note: Using your tablet in your company might require additional settings or configurations from your IT administrator. Contact your IT administrator for more information.

Setting up Microsoft Exchange accounts

Microsoft Exchange is an e-mail-based collaborative communication service provided by Microsoft. Set up a Microsoft Exchange account to connect with your company's e-mail account so you can use your tablet for work.

To set up a Microsoft Exchange account, do the following:

1. Open Android Settings and touch **Accounts & sync ➜ Add account ➜ Corporate**.
2. Enter the required information and follow the instructions on the screen to set up your account.

Note: To use the Microsoft Exchange account, your company's IT administrator might need to set additional security policies for the account. Contact your IT administrator for more information.

Accessing your company's VPN

A virtual private network (VPN) provides access to the resources inside a secured local network, such as the network of your company.

To access your company's VPN, do the following:

1. Obtain the detailed VPN settings from your company's network administrator.
2. Open Android Settings and touch **More... ➜ VPN ➜ Add VPN network**.
3. On the screen that opens, follow the instructions from your network administrator to configure the VPN settings.
4. Touch **Save**. The VPN is added to the VPN list.
5. Touch your company's VPN from the VPN list.
6. In the dialog box that opens, type the requested user name and password and touch **Connect**.

When you are connected to a VPN, a notification icon is displayed on the system bar, to the left of the time. To disconnect the VPN, touch the notification icon from the system bar.

Editing or deleting a VPN

To edit or delete a VPN, do the following:

1. From the VPN screen, touch and hold the VPN to bring up a submenu.
2. Touch **Edit network** or **Delete network**.

When connected to your company's network, you can use some of the applications preinstalled on your tablet, such as Documents To Go and Citrix Receiver, to use your tablet as a productivity tool.

Documents To Go enables you to view, edit, and create Microsoft Word, Excel, and PowerPoint files, and to view PDF files. Citrix Receiver enables you to access virtual desktops and applications from your tablet. It also allows you to access secure, centralized services provided by your IT department.

Consult your company's IT administrator for more information about using these applications in your work environment.

Chapter 8. Security

This chapter provides information about how to protect the information stored on your tablet.

Protecting data against viruses

Your tablet is preinstalled with McAfee antivirus programs to help you to detect and eliminate viruses.

McAfee Secure is a mobile security service that enables you to protect data, safely connect to the Internet, and securely browse and shop the Web. It also ensures privacy in the event of theft and enhances the possibility of recovering your tablet.

To use McAfee Secure, you have to register with McAfee first by doing the following:

1. Open the application library and touch the **McAfee Secure** icon.
2. Follow the instructions on the screen to register with McAfee.

If you are using your tablet in an enterprise environment, McAfee Enterprise Mobility Management enables your company's IT personnel to control and configure your tablet to provide secure and easy access to corporate mobile applications.

To download McAfee Enterprise Mobility Management, touch the applications icon from a Home screen to open the application library. Touch the McAfee **Business** icon. Then touch **Download here**. For instructions on how to use it, consult your IT administrator.

Locking the tablet screen

To protect your tablet data against unauthorized access, lock the screen and set an unlock mode for unlocking the screen. The screen unlock mode can be a personal or corporate password, a PIN, or a pattern. After a screen unlock mode is set and the screen is locked, the next time you turn on your tablet or wake up the screen, you must type the password or the PIN, or draw the unlock pattern to unlock it.

To enable the screen unlock function and set up a password, PIN, or a pattern to unlock the screen, do the following:

1. Open Android Settings and touch **Security** ➙ **Screen lock** to open a list of options.
2. Touch one of the following options to set up the screen unlock mode:

   - **None**: No password, PIN, or pattern is required to unlock the screen. Select this option to disable the screen unlock function.
   - **Slide**: This is the default unlock mode. For more information, see "Screen lock mode" on page 17.
   - **Pattern**: A pattern is a unique way you set to unlock the screen by using your finger to draw a pattern. The first time you try to set a pattern, a short tutorial about creating an unlock pattern is displayed to guide you through the process of setting one.
   - **PIN**: Type a series of numbers.
   - **Password**: Type a series of characters, numbers, or a combination of both.
   - **Corporate logon**: Touch this option to use the same user ID and password you use to log on to your company's Active Directory domain to unlock your tablet screen.

   Note: Make a note of your password, PIN, or pattern in case you forget it.

3. Touch **OK** to save your setting.

Attention:

- For the **Corporate Logon** mode, after 10 incorrect attempts to unlock your tablet, your tablet will reset itself to the factory default state. This process erases all user-created data from the tablet, including Google or other e-mail account settings, system and application data and settings, and downloaded applications.

- For other unlock modes, if you forget the password, PIN, or pattern, contact Lenovo support for system reset.

Encrypting the tablet internal storage

To protect the data that is stored on your tablet internal storage from unauthorized access, you can encrypt the internal storage by doing the following:

Important: Before you start the encryption process, connect your tablet to a standard ac power outlet to ensure a steady and sustained supply of electrical power.

1. Open Android Settings and touch **Security → Encrypt tablet**.
2. Follow the instructions on the screen to encrypt your accounts, settings, downloaded applications, and so on.

Encrypting the flash media card

If you use a flash media card to store confidential data or personal information on your tablet, encrypt the card to prevent the data from being accessed if the card is ever lost or stolen.

Encrypting a flash media card

To encrypt a flash media card, do the following:

Important: Before you start the encryption process, connect your tablet to a standard ac power outlet to ensure a steady and sustained supply of electrical power.

1. Set up a screen unlock password or PIN if you did not set one before. See "Locking the tablet screen" on page 53.
2. Open Android Settings and touch **Security → Encrypt data on removable SD Card**. A message is displayed to inform you that all data on the flash media card will be encrypted.
3. Type the password or PIN that is set for unlocking the screen.
4. Touch **OK** to confirm the encryption. A status box is displayed showing the progress of the encryption.
5. When the encryption process finishes, the status box closes. You can resume normal operation of your tablet.

Notes:

- While encrypting, you can do nothing with your tablet until the process finishes. The time it takes to encrypt depends on the flash media card space volume, file size, file type, number of files, and so on.

- The encryption process copies the data on the flash media card to the tablet internal storage first. Therefore, if the amount of space on the tablet internal storage is less than the amount of data on the installed card, you will be prompted to move some data from the card to another storage medium.

Reading data from an encrypted flash media card

If you try to read the data on the encrypted card on your tablet, the operation is the same as usual. For example, if you want to view the audio files or pictures stored on the encrypted card, just insert the card and use the Android music player to play audio files or go to the gallery to view pictures, or use another program such as Documents to Go to open a file. However, if you use another tablet to read the encrypted card, you

are prompted to type the screen unlock password or PIN of the tablet with which the card was encrypted. After you input a correct password or PIN, you will be able to access data on the encrypted card.

Note: If you attempt to read an encrypted flash media card on a computer, you will not be able to access the contents of the card under any circumstances.

Chapter 9. You and your tablet

This chapter provides the accessibility information about your tablet, and instructions on traveling with the tablet and maintaining the tablet.

Comfort and accessibility

Read this topic to learn how to use your tablet more comfortably and how to use the accessibility features.

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. Note that there are many ThinkPad product solutions available to help you modify and expand your tablet to best suit your needs. Access the Web site http://www.lenovo.com/accessories/services/index.html to view some of these options. Explore your options for docking solutions and external products that can provide the adjustability and features that you want.

Accessibility information

Accessibility technologies enable users that have hearing, vision, and mobility limitations to access information in the most appropriate way and get the most out of their tablet experience.

Zoom

Zoom in to enlarge the text size. To zoom in, touch the screen with two fingers and then slide them apart.

To reduce the text size, zoom out by dragging your fingers together.

Screen brightness

To set a screen brightness level that works for you, open the Quick Settings panel and drag the screen brightness slider to the left or right to adjust the screen brightness.

Voice Actions

The Voice Actions application enables you to control your tablet using your voice, such as sending messages, browsing the Web, listening to music, and activating an application.

Note: The Voice Actions feature is only supported in a limited set of languages.

To use Voice Actions, do the following:
1. Touch the **Google Voice Search** icon from a Home screen, or touch **Voice Search** from the application library.

2. Say what you want your tablet to do. The following are examples:

- "Map of Golden Gate Park, San Francisco"
- "Directions to 1299 Colusa Avenue, Berkeley, California"
- "Go to Google.com"
- "Send e-mail to Hugh Briss, subject, new shoes, message, I can't wait to show you my new shoes, period"
- "Note to self: remember to get the milk"
- "Set alarm for 7:45 pm, label, switch the laundry"
- "Listen to Forever"

TalkBack

The TalkBack function enables the tablet to provide spoken feedback when you touch the screen. To use this feature, go to Android Settings and touch **Accessibility** ➙ **TalkBack**. Then use the witch on the top-right corner to turn on this feature.

Screen reader applications

Screen reader applications can read out software application interfaces, help systems, and a variety of online documents. If you need this feature, go to Google Play or Lenovo App Shop to download a screen reader application.

Getting updates

Your tablet provides automatic notification for updates available for the Android operating system and updates available from Lenovo.

Getting updates from Lenovo

Your tablet is preinstalled with a notification application that informs you about the latest software updates from Lenovo.

The application icon is displayed in Lenovo Launch Zone only when there are unread system notifications from Lenovo. See "Using Lenovo Launch Zone" on page 11. Touch the icon to open a message box to check for detailed information about the updates, and then follow the instructions to update your tablet if you want.

Getting updates from Android

Your tablet receives automatic notifications when updates are available for the Android operating system. When you receive an Android update notification, touch **Install now**, **Install later**, or **More info** from the pop-up options menu when the auto-notification is displayed.

You also can check for updates manually. To check for the latest updates, do the following:

1. Open Android Settings and touch **About tablet** ➙ **System updates** ➙ **Check for updates**.
2. A screen opens and displays all the available updates from Android.

   Note: If there is no update available, you will see a message stating that your system is up to date.
3. If you want to apply the update, touch **Restart & install**, and then follow the instructions to finish the installation. Otherwise, touch the back icon .

Traveling with your tablet

This topic provides information to help you work with and transport your tablet while you traveling.

Travel tips

Use the following travel tips to travel more confidently and efficiently with your tablet:

1. 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.

2. Put your tablet in a protective case when not in use to prevent damage or scratching.

3. If you are traveling abroad, disable the data roaming function to prevent unwanted charges. See "Disabling data roaming on mobile networks" on page 24.

Travel tips on airplanes

If you carry your tablet into an airplane, check the following travel tips:

1. If you are going to use the wireless service, check with the airline for any restrictions before boarding the airplane.

2. If there are restrictions on the use of tablets with the wireless feature on an airplane, enable the Airplane mode. To enable it, do the following:

    a. Touch the time area from the system bar to open the Status Details panel.

    b. Touch anywhere in the Status Details panel. The Quick Settings panel is displayed.

    c. Switch on **Airplane mode**.

3. 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.

Travel accessories

The following is a checklist of things to consider packing when you are going to be away from your office or home:

Travel essentials:

- The ThinkPad Tablet AC Charger that comes with your tablet
- The supplied USB cable
- A quality carrying case that provides adequate cushion and protection

If you are traveling to another country or region, you might want to consider these items:

- A ThinkPad Tablet AC Charger for the country to which you are traveling
- A SIM card for the local mobile services in that country or region

Other items you might want to consider:

- ThinkPad headphones
- Additional storage devices or flash media cards
- A ThinkPad Tablet DC Charger if you are traveling by automobile
- ThinkPad Tablet Keyboard Folio Case

Care and maintenance

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, 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 SIM card and the flash media card from your tablet, and then pack your tablet with a protective case and store it in a well-ventilated and dry area without direct exposure to sunshine.

Chapter 10. Settings

Read this chapter to familiarize yourself with the various settings available to help you personalize and optimize your tablet.

To open Android Settings, either touch the Android **Settings** icon ▤ on Lenovo Launch Zone, or touch **Settings** from the application library. There are four categories of Android settings and more introduction is given in each of the following four topics:

- "WIRELESS & NETWORKS" on page 62
- "DEVICE" on page 63
- "PERSONAL" on page 65
- "SYSTEM" on page 67

The following table provides a brief introduction to the main menu items on the Android Settings screen. For detailed introduction, see the topics that follow.

Table 3. Main menu items on the Android Settings screen

Category	Main menu	Description
WIRELESS & NETWORKS	Wi-Fi	Configure and manage Wi-Fi connections.
	Bluetooth	Configure and manage Bluetooth connections and devices.
	Data usage	Measure and record the mobile data usage in the past month.
	Mobile networks	Connect to a mobile network, and configure the settings of your mobile network connection.
	More...	Configure and manage mobile network connections and other wireless connection related functions.
DEVICE	Sound	Configure the volume level and type; configure ringtones and alarms.
	Display	Configure brightness and other screen settings.
	Storage	Monitor the used and available space on your tablet internal storage; configure the USB mode when a USB storage device connects to the tablet.
	Apps	View details about the applications installed on your tablet, manage application data, close applications, and set whether you want to permit the installation of applications that you obtain from Web sites and e-mail.
PERSONAL	Accounts & sync	Add, remove, and manage your Google Accounts and other accounts.
	Location services	Configure how you want the tablet to determine your location and how you want to share your location with Google and others.
	Security	Configure the security policies and settings.
	Language & input	Select the language that you want to work with on your tablet and configure the input method.
	Backup & reset	Back up data or reset your tablet.

Table 3. Main menu items on the Android Settings screen (continued)

Category	Main menu	Description
SYSTEM	Date & time	Set the date and time.
	Accessibility	Enable or disable accessibility technologies.
	Developer options	Configure other features related to user interfaces and applications.
	About tablet	View information about your tablet.

WIRELESS & NETWORKS

In this category, you can configure and manage connections to networks and devices through Wi-Fi, Bluetooth, a mobile network, or a USB connector.

Note: To enable or disable a setting, touch the setting item to select or clear the check box. When a setting is enabled, a check is displayed in the check box. If other actions are required, follow the instructions on the screen.

Table 4. WIRELESS & NETWORKS menu

Main menu	Submenu	Description
Wi-Fi		Use the switch to turn on or turn off Wi-Fi. When Wi-Fi is on, a list of available Wi-Fi networks is displayed. Touch a network and input the required information to connect to it. To refresh the list, touch **SCAN** from the top-right corner. If you touch the menu icon and touch **Advanced**, the **Advanced Wi-Fi** menu is displayed. Through the **Advanced Wi-Fi** menu, you can configure the following functions: • Receive a notification when an open network is available. • Configure whether to keep Wi-Fi on when the tablet is in sleep mode. • Import or export your Wi-Fi setting profiles. • Configure the wireless network disconnect policy. • Check for the MAC address and IP address.
Bluetooth		Use the switch to turn on or turn off Bluetooth. When Bluetooth is on, a list of available Bluetooth devices is displayed under your tablet name. Touch a device to pair with it. To refresh the list, touch **SEARCH FOR DEVICES**. After a device is paired with your tablet, the settings icon is displayed right after the device name. Touch the icon to configure Bluetooth profiles, rename the paired device, or unpair with the device. To configure the settings for your tablet Bluetooth, touch the menu icon and you can configure the following: • Rename your tablet. • Set how long you want to keep your device discoverable for unpaired devices after you turn on Bluetooth. • Check for files received through Bluetooth.

Table 4. WIRELESS & NETWORKS menu (continued)

Main menu	Submenu	Description
Data usage	Mobile data	Use the switch to enable or disable the mobile data connection. Disable this setting to prevent your tablet from transmitting data on any mobile network. This is useful if you are traveling in an area where you do not have a mobile data plan and want to avoid charges for data use on local carriers' mobile networks. **Note:** Disabling this setting does not prevent your tablet from transmitting data on other wireless networks, such as Wi-Fi or Bluetooth. When enabled, the volume of the data usage of the current month is displayed. You can control your data usage according to the tracking chart.
Mobile networks	Data enabled	Disable this setting to prevent your tablet from transmitting data on any mobile network. This is useful if you are traveling in an area where you do not have a mobile data plan and want to avoid charges for data use on local carriers' mobile networks.
	Data roaming	Disable this setting to prevent your tablet from transmitting data on other carriers' mobile networks when you cannot access your own carrier's mobile networks.
	Activate device	Activate your WAN adapter and your mobile network account for mobile network connection.
	Access Point Names	Open the APNs screen to select mobile access point configurations and set up access point names (APNs). Consult your carrier about how to use the tools on this screen.
	Use only 2G networks	When the battery power is low, enable this selection to extend the battery life by preventing your tablet from connecting to higher-speed networks.
	Network operators	Search for available networks and select a network for roaming.
More...	Airplane mode	When the airplane mode is enabled, all wireless connections are disabled, and you cannot connect to networks. If allowed by the aircraft operator and applicable laws and regulations, you can continue to use other features, such as playing music, watching videos, checking your calendar, viewing pictures, and so on.
	VPN	Add and edit VPN network manually.
	Tethering & portable hotspot	Share your tablet's mobile network data connection with your computer through a USB connection or a Bluetooth connection, or share your Wi-Fi connection with multiple devices at the same time by setting your tablet as a portable Wi-Fi hotspot. **Note:** The Tethering & portable hotspot function might not be supported by some carriers.

DEVICE

The **DEVICE** category is used to configure settings of sound, display, and your storage device, check for battery status, and manage your applications.

Note: To enable or disable a setting, touch the setting item to select or clear the check box. When a setting is enabled, a check is displayed in the check box. If other actions are required, follow the instructions on the screen.

Table 5. DEVICE menu

Main menu	Submenu	Description
Sound	Volumes	Adjust the volume of music and audio from other media, notification ringtones, and alarms.
	Microphones	Select the check box to enable the use of the microphone.
	Default notification	Select the ringtone to sound when you receive a notification, such as a notification of incoming e-mails.
	Vibrate and ring	When enabled, the tablet vibrates and plays a ringtone to alert you to new notifications.
	Touch sounds	When enabled, sounds play when you touch icons and other items on the screen.
	Screen lock sound	When enabled, tones play when you unlock and lock the screen.
	Vibrate on touch	When enabled, the tablet vibrates to respond to screen touches and other interactions.
Display	Brightness	Adjust the brightness of the screen. Drag the brightness slider horizontally or touch the desired portion on the slider. The length of the highlighted bar on the slider indicates the brightness of the screen. By default, **Automatic brightness** is enabled and the tablet adjusts the screen brightness automatically using the ambient light sensor.
	Wallpaper	Change your wallpaper.
	Auto-rotate screen	Enable or disable the screen auto-rotatation function. When enabled, the screen switches the orientation to landscape or portrait view as you rotate the tablet.
	Use Pen Only for Touch Events	Select this check box to disable the finger interaction with the screen.
	Sleep	Select a timeout value for how long the screen remains on after the last operation. For the longest battery life between charges, use the shortest convenient timeout value.
	Font size	Change the system font size.
	Disable Physical Buttons	Select this option to disable the Home, Back, Browser, and Screen rotation lock buttons on the tablet.
	Attached display	Enable or disable the use of HDMI devices.
Storage	INTERNAL STORAGE	View the total space of your internal storage device, the space used by applications and media files, and the free space.
	Mount SD card	Mount the flash media card.
	Allow SD cards	Allow or prohibit the use of flash media cards.
	Mount USB storage	Mount the USB storage device.
	USB storage devices	Enable to allow the use of USB storage devices.
	USB computer connection **Note:** To enter this menu, touch the menu icon ▦ and then touch	Configure how you want to use your tablet when attached to a computer through the micro USB connector. If you select **Transfer files**, the following two protocols are available: • **Media device (MTP)**: The media transfer protocol (MTP) enables you to transfer media files without additional device drivers.

Table 5. DEVICE menu (continued)

Main menu	Submenu	Description
	USB computer connection.	• **Camera (PTP)**: The picture transfer protocol (PTP) enables you to transfer pictures without additional device drivers.
Apps		View details of the applications installed on your tablet, check for the storage space used by these applications, or force an application to stop if they do not function correctly.

PERSONAL

Use this category to manage the settings related to your personal information, such as your accounts, location, data security, and so on.

Note: To enable or disable a setting, touch the setting item to select or clear the check box. When a setting is enabled, a check is displayed in the check box. If other actions are required, follow the instructions on the screen.

Table 6. PERSONAL menu

Main menu	Submenu	Description
Accounts & sync		Add your Google Accounts or other accounts from here by touching **ADD ACCOUNT** from the top-right corner. All the added accounts are displayed on this view. Use the switch beside **ADD ACCOUNT** to turn on or turn off the auto-sycn function. For each account, touch it to configure the synchronization settings or to remove the account.
Location services	Google's location service	When enabled, location point applications, such as Google Map, can use data from your Wi-Fi or mobile networks to determine your approximate location.
	GPS satellites	Enable to use your tablet's GPS satellite receiver to pinpoint your location to within an accuracy as close as several meters ("street level"). GPS accuracy can be impacted by atmospheric conditions, obstructions, and other factors.
	Location & Google search	Allow Google to use your location to improve search results and other Google services.
Security	Screen lock	Configure the screen unlock mode. See "Locking the tablet screen" on page 53.
	Owner info	Set whether you want to display information about yourself (such as your contact information) on the locked screen and type the text you want to display.
	Encrypt tablet	Encrypt your accounts, settings, downloaded applications, and so on.
	Encrypt data on removable SD card	Encrypt the data on your flash media card. Once encrypted, it requires a password or PIN to decrypt your flash media card if the card is used on other tablets.
	Set up SIM card lock	Configure the tablet to require entering the SIM PIN to use the tablet. **Note:** This option is available only for the WAN-supported models.
	Make passwords visible	Enable to show the password as you type.
	Device administrators	Activate or deactivate applications through which your IT personnel are able to perform some administrative tasks on your tablet.
	Unknown sources	Enable to allow installation of applications from other resources in addition to Google Play and Lenovo App Shop.

Table 6. PERSONAL menu (continued)

Main menu	Submenu	Description
	Configuration profiles	Manage your configuration profiles if your IT personnel have ever configured any.
	Trusted credentials	View the trusted credentials or certificates installed.
	Install from SD card	Install a secure certificate from the flash media card installed on the tablet.
	Clear credentials	Delete all secure certificates and related credentials and erase the credential storage password.
	Set state	Enable or disable the Absolute Computrace persistence technology. This technology enables a constant connection to all of the tablets in an IT administrator's deployment.
Language & input	Language	Select the language to use for the text on your tablet.
	Spelling correction	Enable or disable the spelling correction function when you are typing.
	Personal dictionary	Create your own dictionary.
	Default	Configure the default input methods.
	KEYBOARD & INPUT METHODS	The installed input methods are listed under **Default** and each method has a settings icon. Touch the settings icon to configure the input method.
	Voice Search	Configure the voice search settings, such as selecting the language used and blocking offensive words.
	Text-to-speech output	If you have more than one text-to-speech engine installed, set which one you want to use. Also configure how quickly you want the synthesizer to speak.
	Pointer speed	Change the pointer speed if you are using a mouse or the trackpoint pointing stick on a ThinkPad Tablet Keyboard Folio Case.
Backup & reset	Back up my data	Enable to back up some of your personal data to Google servers using your Google Account. If you replace your tablet, you can restore the data you have backed up the first time you sign in to your new tablet with your Google Account. The information that can be backed up includes your Wi-Fi passwords, Browser bookmarks, a list of the applications you have installed from Google Play, the words you have added to the user dictionary used by the onscreen keyboard, and most of the settings that you have configured with the **Settings** application. Some third-party applications also might take advantage of this feature, so you can restore your data if you reinstall an application. **Attention:** If you clear this option, you stop backing up your data to your account, and any existing backups are deleted from Google servers.
	Back up account	View the Google Account that your settings and other data are backed up with. This is the account you need to sign into on a new Android tablet or other device, if you want to restore the settings from this tablet to the new one.
	Automatic restore	Select this option to restore settings and other data when you reinstall an application. To use this feature, you must have been backing up your data with your Google Account and the application has been using the backup service.
	Factory data reset	Reset your settings to the factory default values. This setting erases all data from the tablet, including Google or other e-mail account settings,

Table 6. PERSONAL menu (continued)

Main menu	Submenu	Description
		system and application data and settings, and downloaded applications. It will not erase current system software and bundled applications, or files stored on your flash media card, such as music or pictures.
	Cameras	Enable the use of the cameras.

SYSTEM

From this category, you can set the date and time, download screen reader programs, check for system information, and configure additional system settings in addition to those introduced in previous topics.

Note: To enable or disable a setting, touch the setting item to select or clear the check box. When a setting is enabled, a check is displayed in the check box. If other actions are required, follow the instructions on the screen.

Table 7. SYSTEM menu

Main menu	Submenu	Description
Date & time	Automatic date & time	Disable to manually set the date and time. Enable to obtain the current time from the wireless network.
	Set date	If **Automatic date & time** is not selected, touch **Set date** to manually set the date.
	Set time	If **Automatic date & time** is not selected, touch **Set time** to manually set the time.
	Select time zone	If **Automatic date & time** is not selected, touch **Select time zone** to manually set the time zone.
	Use 24-hour format	Enable to display the time using the 24-hour time format.
	Select date format	Set the format for displaying dates.
Accessibility	TalkBack	When this feature is switched on, the tablet provides spoken feedbacks on your touch and other interactions. Touch **SETTINGS** to further configure this feature.
	Large text	Check to enlarge the system font size.
	Auto-rotate screen	Enable or disable the screen auto-rotatation function. When enabled, the screen switches the orientation to landscape or portrait view as you rotate the tablet.
	Speak passwords	When enabled, the tablet text-to-speech engine reads out your password as you type.
	Touch & hold delay	Configure how long you must keep your finger on an object before it is recognized as a touch and hold operation.
	Install web scripts	Configure whether to allow applications to download accessibility scripts from Google.

Table 7. SYSTEM menu (continued)

Main menu	Submenu	Description
Developer options	USB debugging	Enable to allow debugging when your tablet is attached to a computer through a USB cable.
	Stay awake	When enabled, the tablet will never enter into sleep mode while the battery is charging, or while the tablet is connected to a computer through the supplied USB cable.
	Allow mock locations	This setting is used by developers when developing location-based applications. Enable this function to allow mock locations and service information to be sent to a location manager service for testing.
	Desktop backup password	Set, change, or remove the backup password if you are using a third-party backup application.
	Strict mode enabled	When enabled, the screen flashes when applications take long time to respond.
	Pointer location	When enabled, a visible line is displayed tracing your touch on the screen.
	Show touches	When enabled, a visible dot is displayed at the place where you touch the screen.
	Show screen updates	When enabled, the screen flashes if a setting is updated.
	Show CPU usage	When enabled, the CPU usage information is displayed on the top-right corner of the screen.
	Show GPU rendering	Enable to use the 2D hardware acceleration in applications.
	Window animation scale	Set the tablet to play or not to play an animation when you open or close a screen, or switch between screens.
	Transition animation scale	
	Don't keep activities	When enabled, the system does not "memory" activities you made on an application as soon as you close the application. You are not recommended to select this option because enabling it will affect application performance.
	Background process limit	Set how many backgroud processes you allow to run at the same time.
	Show all ANRs	ANRs stand for Application Not Responding. If you enable this option, a message is displayed whenever a background process is not responding.
About tablet		Check for the following system information: • The latest available Android software updates • Battery status, mobile network connection status, IP address, Wi-Fi MAC address, and other information • A list of the applications and operating system components you have used since you last charged the tablet • Legal information • Model number • Android version • Baseband version • Kernel version • Build number • Machine type and model • System-unit serial number • Universally Unique Identifier (UUID) • Asset tag

Table 7. SYSTEM menu (continued)

Main menu	Submenu	Description
		• EC version **Note:** If you see **Poor** under **Battery condition**, contact Lenovo for further instructions. The battery might need to be replaced with a new one.

Chapter 11. Troubleshooting problems

This chapter describes some common problems and suggested solutions, and how to recover your tablet from a crash.

Be aware that the problems and solutions described in this chapter are meant only as a guide. They are not definitive problem solving techniques. For some problems, you might need help from Lenovo, your reseller, or your service provider.

When you observe a problem, stop operation immediately, because taking further action might result in data loss or damage. Take a note of what the system is doing and what actions you performed before the problem occurred. Provide detailed information to Lenovo or your service provider for quicker problem resolution.

Internet problem

Problem: Unable to connect to the wireless network.

Suggested solution: Ensure that:

- The SIM card is valid and workable if you are using a mobile data network (2G or 3G).
- You are within the network's service range and the signal strength is good.
- Your tablet is not in Airplane mode.

If the problem persists, contact Lenovo for technical support.

Application problem

Problem: Applications are not working normally.

Suggested solution: Open Android Settings and touch **Developer options**. Ensure that the **Don't keep activities** check box is unchecked.

Multitouch screen problems

- **Problem**: The multitouch screen responds slowly or improperly.

  Suggested solution: Do the following:

    1. Ensure that your hands are clean and dry when touching the screen.
    2. Restart your tablet to try again.

  If the problem persists, contact Lenovo for technical support.

- **Problem**: The multitouch screen does not respond to your finger touch.

  Suggested solution: Open the Quick Settings panel and ensure that the **Pen only** feature is switched off.

Battery problem

Problem: The battery does not charge correctly.

Suggested solution: Check if the ac charger is connected correctly. If the connection is good but the battery still does not charge, contact Lenovo to replace with a new battery.

System problems

- **Problem**: Unable to turn the tablet on.

Suggested solution: Connect your tablet to an ac power outlet using either a dock or the charger through the provided USB cable to see if the problem is caused by a drained battery. If the problem persists, insert a straightened paper clip into the emergency reset hole. To locate the emergency reset hole, see "Tablet layout" on page 1. If the problem still persists, contact Lenovo for technical support.

- **Problem**: Unable to turn the tablet off.

  Suggested solution: If you cannot turn off your tablet by pressing and holding the power button, insert a straightened paper clip into the emergency reset hole to turn it off. To locate the emergency reset hole, see "Tablet layout" on page 1.

Media problems

- **Problem**: The audio quality is poor or there is no sound output.

  Suggested solution: Check and ensure that:

  – The speaker is not covered.

  – The speaker mute function is disabled.

  – If you are using a headset, unplug it, then plug it in again.

  – The volume is not turned to the lowest level.

  If the problem persists, contact Lenovo for technical support.

- **Problem**: A song, video, or other media file cannot be played.

  Suggested solution: Check and ensure that the media file is not corrupted.

External device connection problems

- **Problem**: A connection is not established when you connect the tablet to a computer.

  Suggested solution: Ensure that the computer USB cable you are using is the one that is shipped with your tablet. Also ensure that the USB cable is connected to the micro USB connector of your tablet.

- **Problem**: Bluetooth devices cannot be located.

  Suggested solution: Ensure that:

  – Your tablet Bluetooth is switched.

  – The Bluetooth feature is activated on the device to which you want to connect.

  – Your tablet and the Bluetooth device are within the maximum Bluetooth range (10 m).

  If the problem persists, contact Lenovo for technical support.

- **Problem**: The image cannot be mirrored on the external display.

  Suggested solution: Ensure that:

  1. **Attached display** is switched on from the Quick Settings panel.

  2. The external display is powered on.

  3. The external display is connected to your tablet through the mini HDMI connector.

  If the problem persists, contact Lenovo for technical support.

Recovering from a severe software problem

If your tablet stops responding and you cannot turn off the tablet by pressing and holding the power button, insert a straightened paper clip into the emergency reset hole to reset the tablet. Then restart your tablet. To locate the emergency reset hole, see "Tablet layout" on page 1.

If you still encounter the same problem after you restart your tablet, reset your tablet and restart it again, and then perform a factory data reset operation by doing the following:

1. Open Android Settings and touch **Backup & reset ➔ Factory data reset**.

2. Touch **Reset tablet**.

3. Touch **Erase everything**. This action will erase all data from your tablet including your Google Accounts, application and system settings, and downloaded applications.

Chapter 12. Getting support

This chapter provides information about getting help and support from Lenovo.

Lenovo technical support

After you buy a ThinkPad Tablet, register your tablet with Lenovo. Using the registered information, Lenovo can contact you in case of a recall or other severe problems. After you register your computer with Lenovo, you will receive quicker service when you call Lenovo for help. In addition, some locations offer extended privileges and services to registered users.

To register your computer with Lenovo, go to http://www.lenovo.com/register and follow the instructions on the screen.

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 such as the following:

- Drivers and software
- Diagnostic solutions
- Product and service warranty
- Product and parts details
- User guides and manuals
- Knowledge base and frequently asked questions

If you need to call the Lenovo Customer Support Center, go to http://www.lenovo.com/support/phone for the latest telephone numbers and hours of operation.

During the warranty period, you can get the following services from the Customer Support Center:

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

For the terms and conditions of the Lenovo Limited Warranty that applies to your tablet, refer to the *Safety and Warranty Guide* that comes with your tablet.

Locating the machine type and model (MTM) number and the system serial number

When calling for technical assistance, you are requested to provide the MTM number and the system serial number of your tablet. To get the MTM number and the serial number, do either of the following:

- Open Android Settings and touch **About tablet**. Then you can see the required numbers under **Machine type and model** and **System-unit serial number**.
- Open the SIM card slot cover. The MTM label is affixed on the inner side of the cover.
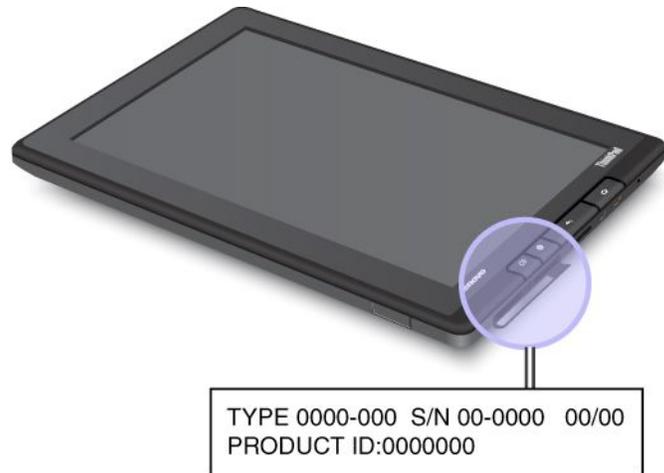
Figure 16. Location of the MTM label

Lenovo user forums

Lenovo Forums on the Lenovo Web site provides you with a place to search the community knowledge base for your tablet, share and discover information with other users, make suggestions to Lenovo, ask questions on problems you encountered, and get technical support from Lenovo engineers.

To go to Lenovo Forums, do the following:

1. Go to http://www.lenovo.com/support.
2. Touch **Lenovo Community** to start with your first post.

Note: Posting on Lenovo Forums requires a user account. Touch **Register** to create your account if you do not have one.

Appendix A. Regulatory information

This appendix provides regulatory information.

Wireless related information

Wireless interoperability

Wireless LAN PCI Express Mini Card is designed to be 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 or 802.11n draft 2.0 on Wireless LANs, as defined and approved by the Institute of Electrical and Electronics Engineers.
- The Wireless Fidelity (WiFi) certification as defined by the Wi-Fi Alliance.

The Bluetooth card in your tablet is designed to be interoperable with any Bluetooth product that is compliant to Bluetooth Specification 2.1+EDR as defined by the Bluetooth SIG. The following profiles are supported by your Bluetooth card:

- Audio Gateway
- AV
- Generic Object Exchange
- Generic Object Push
- Human Interface Devices (Keyboard/Mouse)
- Personal Area Network
- Serial Port
- Service Discovery

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.

Due to the fact that 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 or near 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 prior to turning on the tablet.

Location of the UltraConnect wireless antennas

The ThinkPad Tablet features an integrated diversity antenna system built into the display for optimal reception, enabling wireless communication wherever you are.

The following illustration shows the location of each built-in wireless antenna.
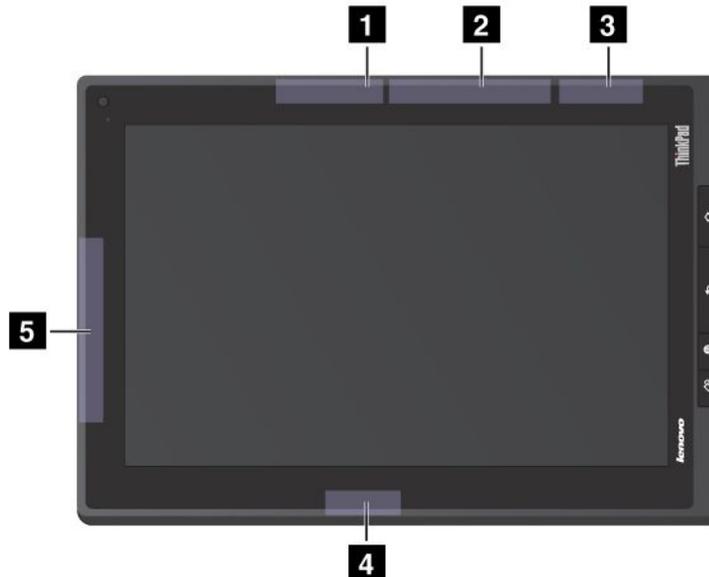
Figure 17. Location of the UltraConnect wireless antennas

1 Wireless LAN antenna (Main)

2 Wireless WAN antenna (Main)

3 GPS antenna

4 Wireless LAN antenna (Auxiliary)

5 Wireless WAN antenna (Auxiliary)

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.

Electronic emission notices

The following information refers to the ThinkPad Tablet machine types 1838 and 1839.

Federal Communications Commission (FCC) Declaration of Conformity

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, might 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 might not cause harmful interference, and (2) this device must accept any interference received, including interference that might cause undesired operation.

Responsible Party:

Lenovo (United States) Incorporated

1009 Think Place - Building One

Morrisville, NC 27560

Phone Number: 919-294-5900

FC

Industry Canada Class B emission compliance statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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.

CE

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
台北市信義區信義路五段七號十九樓之一
服務電話：0800-000-702

Additional regulatory information

For more information about the wireless regulatory notices, refer to the *Regulatory Notice* that came with your tablet.

If your tablet is shipped without the *Regulatory Notice*, you can obtain a PDF version from the Lenovo Web site at: :
http://www.lenovo.com/ThinkPadUserGuides

Appendix B. Environmental, recycling, and disposal information

Lenovo recycling statement

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

Japan recycling statements

環境配慮に関して

本機器またはモニターの回収リサイクルについて

企業のお客様が、本機器が使用済みとなり廃棄される場合は、資源有効利用促進法の規定により、産業廃棄物として、地域を管轄する県知事あるいは、政令市長の許可を持った産業廃棄物処理業者に適正処理を委託する必要があります。また、弊社では資源有効利用促進法に基づき使用済みパソコンの回収および再利用・再資源化を行う「PC 回収リサイクル・サービス」を提供しています。詳細は、
http://www.lenovo.com/recycling/japan をご参照ください。

また、同法により、家庭で使用済みとなったパソコンのメーカー等による回収再資源化が 2003 年 10 月 1 日よりスタートしました。詳細は、
http://www.lenovo.com/recycling/japan をご参照ください。

重金属を含む内部部品の廃棄処理について

本機器のプリント基板等には微量の重金属（鉛など）が使用されています。使用後は適切な処理を行うため、上記「本機器またはモニターの回収リサイクルについて」に従って廃棄してください。

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, visit the Lenovo Web site at http://www.lenovo.com/recycling/japan.

Disposing of Lenovo computer components

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

Disposing of disused lithium batteries from Lenovo computers

A button-shaped lithium battery is installed on the system board of 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 ask for a repair service provided by Lenovo. If you have replaced it by yourself and want to dispose of the disused lithium battery, insulate it with vinyl tape, contact your place of purchase, and follow their instructions. If you use a Lenovo computer at home and need to dispose of a lithium battery, you 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 orgãos ambientais, de acordo com a legislação local.

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

EU WEEE statements

The Waste Electrical and Electronic Equipment (WEEE) mark applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC concerning waste electrical and electronic equipment (WEEE). The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive. Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and 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.

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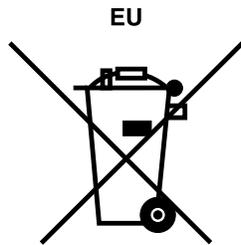
Notice: This mark applies only to countries within the European Union (EU).

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

China recycling information for Waste Electrical and Electronic Equipment (WEEE)

《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.

China substance disclosure table

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴连苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板组件*	X	O	O	O	O	O
硬盘	X	O	O	O	O	O
光驱	X	O	O	O	O	O
内存	X	O	O	O	O	O
电脑I/O 附件	X	O	O	O	O	O
电源	X	O	O	O	O	O
键盘	X	O	O	O	O	O
鼠标	X	O	O	O	O	O
机箱/ 附件	X	O	O	O	O	O

○:表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下
×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求
表中标有"×"的所有部件都符合欧盟RoHS 法规.

印刷电路板组件*：包括印刷电路板及其零部件、电容和连接器
根据型号的不同，可能不会含有以上的所有部件，请以实际购买机型为准

在中华人民共和国境内销售的电子信息产品必须标识此标志，标志内的数字代表在正常使用状态下的产品的环保使用期限

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
Sınırlandırılmasına 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

Appendix C. Notices

Lenovo might not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service might be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right might be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.

Lenovo might have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

Lenovo (United States), Inc.
1009 Think Place - Building One
Morrisville, NC 27560
U.S.A.
Attention: Lenovo Director of Licensing

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Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk.

Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments might vary significantly. Some measurements might have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements might have been estimated through extrapolation. Actual results might vary. Users of this document should verify the applicable data for their specific environment.

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Access Connections
Lenovo
ThinkPad
TrackPoint
UltraConnect

Microsoft, Excel, PowerPoint, and Windows are trademarks of the Microsoft group of companies.

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

ThinkPad®

Part Number:

Printed in

(1P) P/N:

||||| ||| ||| |||