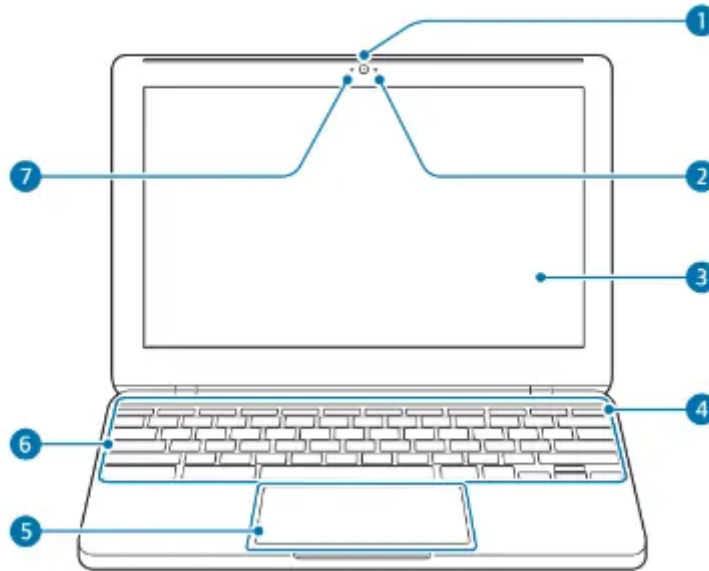


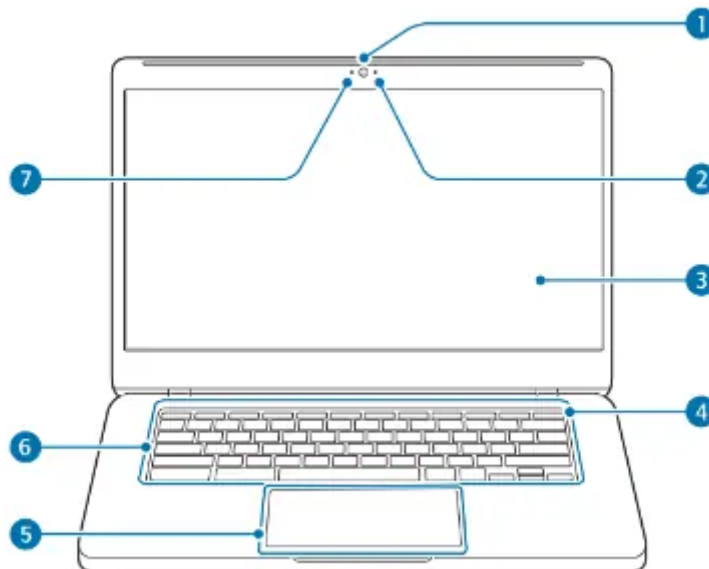
Layout


Front view

► For 11.6 inch models



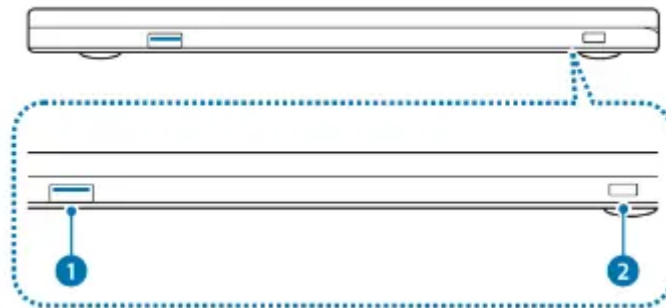
► For 15.6 inch models




Number/Name	Description
1 Camera	<ul style="list-style-type: none"> Using this camera, you can take still pictures and record video.
2 Microphone	<ul style="list-style-type: none"> You can use the built-in microphone.
3 LCD	<ul style="list-style-type: none"> The screen's images are displayed here.
4 Power button 	<ul style="list-style-type: none"> Turns the computer on and off.
5 Touchpad	<ul style="list-style-type: none"> Moves the cursor and selects options. Functions as a mouse.
6 Keyboard	<ul style="list-style-type: none"> Enter text or control computer functions.
7 Camera indicator light	<ul style="list-style-type: none"> This indicates the camera operating status.

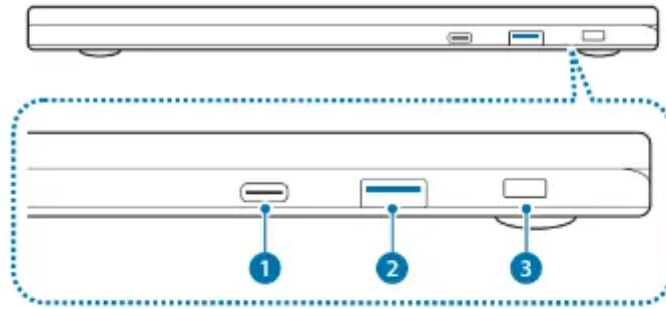
Right view


► For 11.6 inch models



Number/Name	Description
1 Chargeable USB 3.0 port	<ul style="list-style-type: none"> Connect a USB device to the computer and charge the connected USB device.  Data transfer speeds can vary among different USB devices and system configuration.
2 Security slot	<ul style="list-style-type: none"> Secure the computer by connecting an optional lock and cable to it.

► For 15.6 inch models



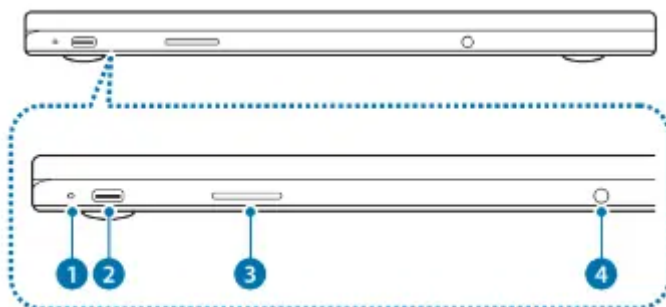
Number/Name	Description
1 USB-C [®] port	<ul style="list-style-type: none"> Connect and charge a USB-C[®] device, or connect to an external display device.
2 Chargeable USB 3.0 port	<ul style="list-style-type: none"> Connect a USB device to the computer and charge the connected USB device.  Data transfer speeds can vary among different USB devices and system configuration.
3 Security slot	<ul style="list-style-type: none"> Secure the computer by connecting an optional lock and cable to it.

About the chargeable USB port

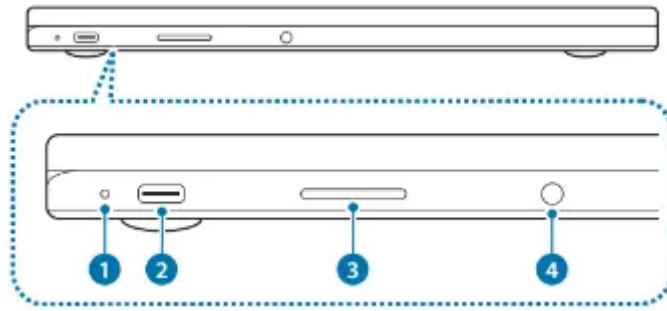
- It may take longer to charge the battery when charging a USB device.
- The battery power level may be reduced when charging a USB device while the computer is powered by the battery.
- The charging status of the USB device is not displayed on the computer.
- This feature may not be available on some USB devices.
- When the computer is turned off, the device connected to the USB port is not charged.

Left view

► For 11.6 inch models



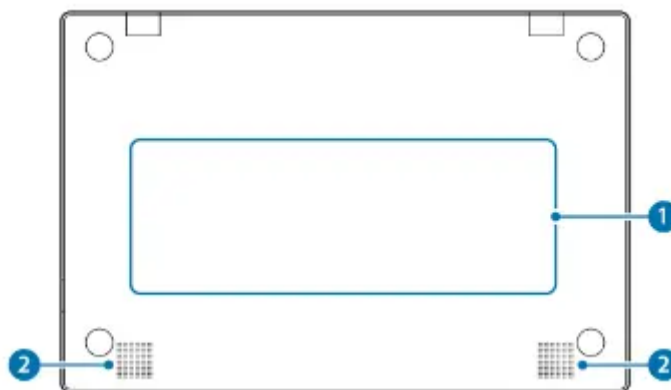
► For 15.6 inch models



Number/Name	Description
1 Operating status LED	<ul style="list-style-type: none"> Shows the operating status of the computer. <ul style="list-style-type: none"> Blinks red: Pre-charging Red: Charging Green: Fully charged Blue: Turned on
2 USB-C [®] port	<ul style="list-style-type: none"> Connect and charge a USB-C[®] device, or connect to an external display device.
3 Memory card slot (optional)	<ul style="list-style-type: none"> Insert a memory card into the slot.
4 Earpiece/ Headset jack	<ul style="list-style-type: none"> Connect an earpiece or a headset to the computer to listen to audio.

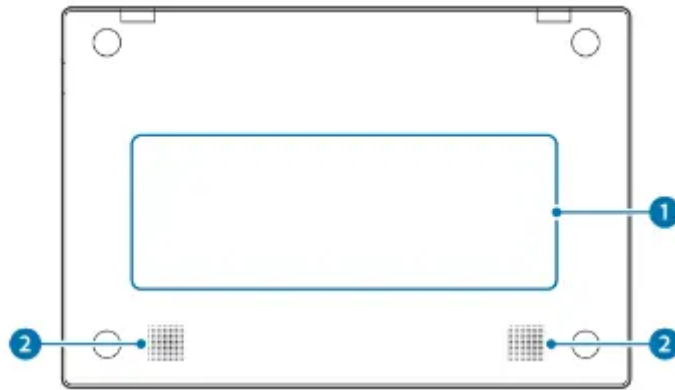
Bottom view

► For 11.6 inch models



► For 15.6 inch models





Number/Name	Description
1 Internal battery	<ul style="list-style-type: none"> Provides power to the computer when not connected to an AC adapter. To remove or replace the internal battery, take it to a Samsung Service Center. You will be charged for this service.
2 Speaker	<ul style="list-style-type: none"> Sound is emitted from the speakers.

Basics

Using the keyboard

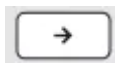
Shortcut key functions and procedures are discussed in the following sections.

Shortcut Keys

Here is an overview of the shortcut keys on the top row of the keyboard.



Go to the previous page in your browser history.



Go to the next page in your browser history.



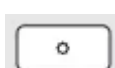
Reload your current page.



Hide the tabs in full-screen Immersive mode.



Enter Overview mode, which shows all windows.




Decrease screen brightness.

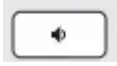


Increase screen brightness.



Mutes the sound.

In Mute mode, press  the key to cancel the Mute function.



Decrease the volume.



Increase the volume.

Shift key

Hold the Shift key down to enter upper case letters.



Hot key function

Press the following keys at the same time.

You can check the hot keys in Chrome OS.



Search key

Where you'd find the Caps Lock key on a traditional keyboard, we've put the Search key.



Press the Search key to run the Launcher.

If you really need Caps Lock, go to the Settings page to make the Search key behave like a Caps Lock key.

Using the touchpad

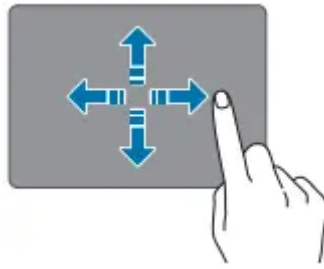
Use the touchpad to move the cursor or select an item. The left and right buttons of the touchpad act the same as the left and right buttons of a mouse.

Basic touchpad functions

Moving

To move the cursor, move a finger on the touchpad





Clicking

Tap the touchpad.



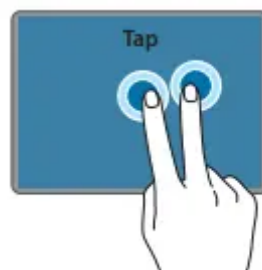
Double-clicking

Double-tap the touchpad.



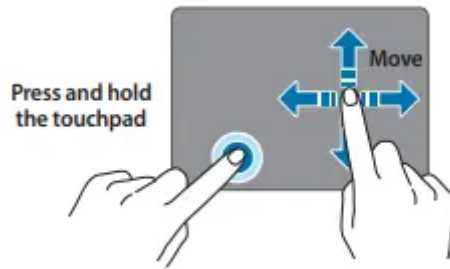
Right-clicking

To right-click, place two fingers on the touch area and tap once




Dragging

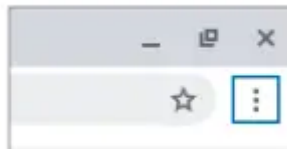
To move an icon or an app tile to a desired location, press and hold it and then drag it to the target position.



Adjusting your Touchpad Settings

If your touchpad is too sensitive, you can adjust your settings by following these steps:

1. Click the list icon  on the top-right corner of your browser.



2. Select Settings.

3. Go to Device → Touchpad → Touchpad speed, and change the settings as appropriate.

Memory card slot

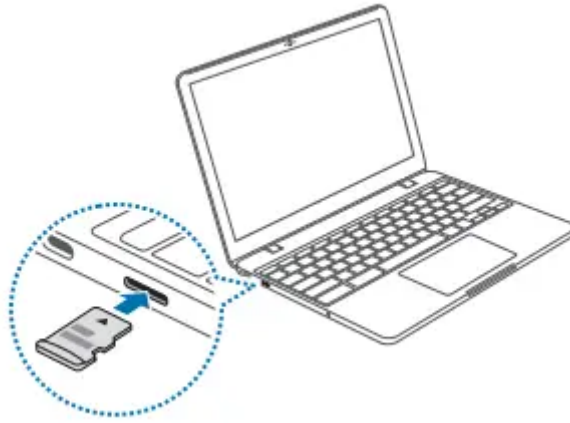
Use a memory card to transfer data to other devices, such as digital cameras or MP3 players. Memory cards are sold separately. Purchase a memory card with the necessary capacity for the requirement.

This computer supports the following types of memory cards.

- **micro SD**
 - micro Secure Digital
- **micro SDHC**
 - micro Secure Digital High Capacity
- **micro SDXC**
 - micro Secure Digital eXtended Capacity

Inserting a memory card

1. If a dummy card or a memory card adapter is inserted in the memory card slot, remove it.
2. Insert a memory card into the memory card slot in the indicated direction until it clicks



3. When a pop-up window appears, select it. The Files app will launch.

4. Click on a file to read the data for the file.

Removing a memory card

Push the card gently until it disengages from the memory card slot. Grasp the end of the card and pull it out of the slot.

Wireless LAN



Connect the computer to a wireless network to use the Internet.

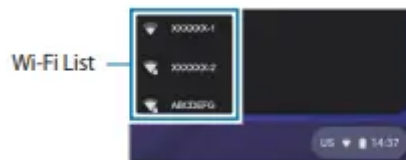
About Access Point (AP)

An Access Point (AP) is a network device that bridges wired and wireless LANs and corresponds to a wireless hub in a wired network. Multiple devices can be connected to an AP.


Connecting to a Wi-Fi network

1. Select the taskbar on the bottom right.

2. Select  No networks or  No networks, and then tap the Wi-Fi switch to activate. The Wi-Fi list will appear.



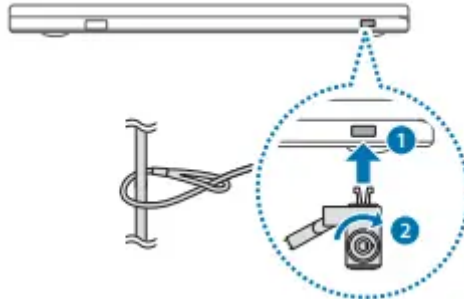
3. Select a network from the list of detected Wi-Fi list.

4. If the connection is successfully established, the network icon  is displayed.

Using the security slot

You can secure the computer by connecting a lock and cable to the security slot.

Tie the lock and cable to a fixed object and install the other end of the cable to the security slot.



Chrome OS

Using applications

Images and features may differ depending on the model and the application version.

Some applications may not be supported depending on the model.

Third-party software related services

For descriptions about and service requests for third-party applications, please contact the relevant manufacturer. Some troubleshooting actions in response to service requests may not work depending on the application manufacturer.

Images and features may differ depending on the model and the application version.

Some applications may not be supported depending on the model.

Third-party software related services

For descriptions about and service requests for third-party applications, please contact the relevant manufacturer. Some troubleshooting actions in response to service requests may not work depending on the application manufacturer.

All about Chrome OS

Your Chromebook runs the Chrome operating system that's built and optimized for the web. Using your Chromebook is as easy as surfing the web.


- **Quick access to the web.**

Chromebooks boot quickly after start-up and resume instantly from power saving mode. Your favorite websites load quickly and run smoothly, with full support for the latest web standards

and Adobe Flash. The best part: Chromebooks not only stay fast, but are designed to get faster over time as updates are released.

- **Same experience everywhere.**

All your apps, documents, and settings are synced to your account and stored in the cloud.

To customize the data that gets synced, select the taskbar on the bottom right and select  → Sync under People.

- **Always connected.**

Now, you can stay online at home, outdoors, or on your morning commute because your Chromebook makes it easy to get online anywhere, anytime, via Wi-Fi and, if included, mobile broadband service.

- **Built-in security.**

Your Chromebook is much safer than a regular computer.

Each webpage and application you visit runs in a restricted environment. So if you visit an infected page, it can't affect the other tabs, apps, or anything else on your computer.

- **Less updating. More surfing.**

When you turn your Chromebook on, it updates itself.

Automatically. All of your apps stay up-to-date, and you get the latest and greatest version of the operating system without having to think about it. Starting now, say goodbye to annoying update prompts

Usage Precautions

- Some functions and screenshots are subject to change depending on the Chrome version.
- To sign-in, you need a Google account. If you do not have a Google account, you can create one or connect with a guest account. Some functions may not be available when signed in as a guest.
- You may experience limitations using the product under the following circumstances. Please refer to the link.
 - When reading from or writing to external storage devices with the filing system. (<https://support.google.com/chromebook/answer/183093?hl=en>)
 - When playing certain local video or music files. (<https://support.google.com/chromebook/answer/183093?hl=en>)
 - When using a local printer. (https://support.google.com/chromebook/answer/7225252?hl=en&ref_topic=3399712)
 - For additional inquiries about the Chrome operating system or applications, visit <https://support.google.com/chromebook>.

- If you have a problem while using the Chromebook hardware, please visit www.samsung.com/sec/support/guarantee.do.

Get on the web

Logging in with your Google account

You can use your Chromebook when it is connected to the internet. To login, you need a Google account.

If you don't have a Google account, create an account.

1. Activating the computer.

1.1 Select Let's go.

1.2 Select a Wi-Fi network and connect to it. Detected networks are automatically listed in the Connect to network menu.

1.3 Read and agree to the terms and conditions and select Accept and continue.

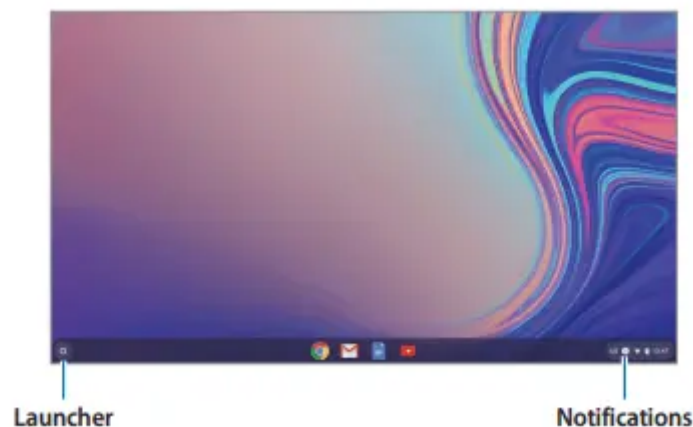
1.4 Enter your Google ID and password, then click NEXT.

1.5 Follow the on-screen instructions to proceed the setup.

2. Get started with your Chromebook. When your Chromebook starts for the first time, updates may be performed for up to 5 minutes during the activation step.



Desktop

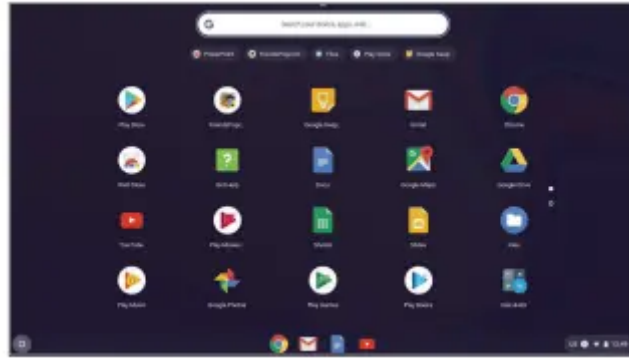
When you have completed the login, the Desktop appears. Select the icons on the taskbar to launch various apps. You can also check your notifications and personalize your computer even more by configuring various settings.



Launcher

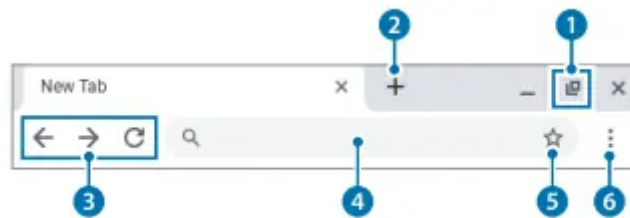
You can search for and launch various apps on the Launcher.

On the Desktop, select  to run the Launcher. Select  to display icons for all your apps, including newly installed apps.



The browsing interface

Once you're signed in, you're instantly on the web. Here's a quick overview of the interface you'll see:



- Resizing button
 - Minimize the window or move it to the left or right.
- New tab button
 - Click to see your apps and most visited sites.
- Navigation buttons
 - Go back, forward, or reload your page.
- Address bar
 - Search or enter a web address.
- Bookmark
 - Bookmark the page.
- Setting
 - Click to adjust your browser settings.

Discover web apps



Want to edit a photo, listen to music, or play games in your browsers? The Chrome Web Store offers a wide range of apps, games, extensions, and themes that you can use to customize your browser.

- Extensions are custom features and functionality that you can add to the browser.
- Themes change the skin of the browser, to give it a bit more style and flair.
- Apps can offer powerful functionality that you'd expect from desktop programs.
- Games lets you enjoy various games

Using Play Store

You can purchase and install various Android apps with your Chromebook just as you would with other Android devices. Download useful apps from Play Store to use your Chromebook more effectively.


Installing apps

1. Select  → Play Store.
2. Browse apps by category or search for apps by keyword.
3. Select an app to view information about it
4. Select INSTALL to download free apps. To purchase and download apps where charges apply, select the price and follow the instructions.
5. The downloaded apps will be installed on the Launcher. If you cannot find the apps, select  on the Launcher.

FAQ

Printing on a Chromebook

If you are using the standard printer, add the printer on the Chromebook Settings screen.

Select the taskbar on the bottom right and select  → **Advanced** → **Printers** → **ADD PRINTER**, enter the printer's information, and then follow the on-screen instructions to proceed with printer set up.

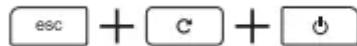
Recovery (optional)

Using the Recovery function, you can restore your computer when a problem occurs with your computer.

You can restore your computer after creating an update image and using a USB flash drive. For more information, refer to the Recover your Chromebook

Performing the Update from a USB Flash Drive

1. Save the recovery image to be updated onto the SD card or USB flash drive
2. Open the LCD panel and press the power button to turn the power off.
3. Insert the SD card or the USB flash drive containing the recovery image, and press both the Refresh button and the Power button while holding down the ESC key.






4. When the Chromebook restarts, follow the onscreen instructions to complete the recovery process.
5. Remove the SD card or the USB flash drive as instructed.
6. When the system has restarted, the update is successfully completed.

Settings & Upgrade

LCD brightness

Adjust the LCD brightness to reduce eye strain and save power.

- Adjust the LCD brightness by pressing the  key to decrease brightness or the  key to increase brightness.
- Whenever you press the  key, the LCD brightness increases by one level.

Volume

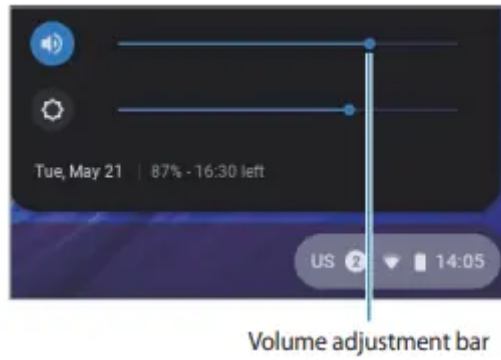
Adjust the system volume or sound volume when playing music or video.

Controlling volume using the keyboard

Press the Volume button on the right side of the computer to adjust the volume.

Controlling volume using the taskbar

1. Select the taskbar on the bottom right.
2. Drag the adjustment bar to the desired volume.

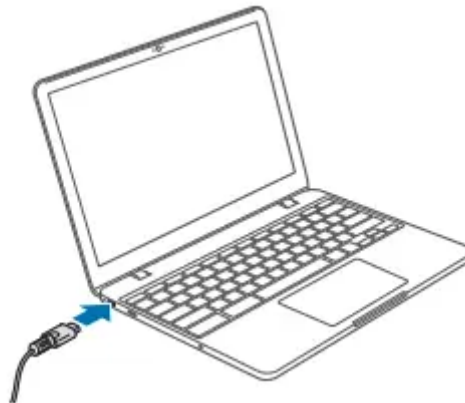


Battery

Fully charge the battery using the AC adapter before using the computer for the first time

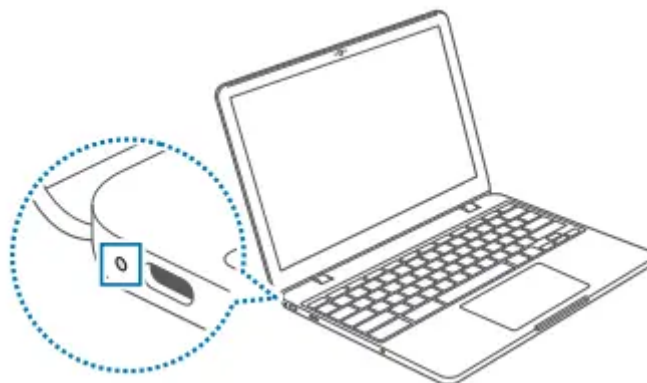
Charging the battery





1. Connect the AC adapter to the USB-C® port of the computer.



2. Plug the AC adapter into an electric socket.

3. When the battery is fully charged, the operating status LED turns green. Disconnect the AC adapter from the computer

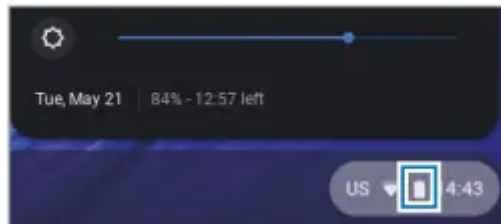


Operating status LED	Status
	• Blinks red: Pre-charging
	• Red: Charging
	• Green: Fully charged
	• Blue: Turned on

4. Unplug it from the electric socket.

Battery status

Select the taskbar on the bottom right to view the current battery charge.



Battery usage time

Batteries are replaceable items and over time the battery's capacity to hold a charge and its power level is reduced. If a battery can only hold its charge for half of the time that it could when new, it is recommended to purchase a new, replacement battery.

Appendix

Product specifications

The system specifications may differ depending on the derived model. For detailed system specifications, refer to the product catalog

- **Operating environment**

- Temperature: -5–40 °C for storage, 10–35 °C when operating
- Humidity: 5–90 % for storage, 20–80 % when operating

- **AC/DC rating**

- Input: 100–240 VAC, 50–60 Hz
- Output: 15 VDC, 2 A / 9 VDC, 3 A / 5 VDC, 3 A

- **PC rating**

- VDC, 2 A / 9 VDC, 3 A / 5 VDC, 3 A (30 W)

Ergonomic tips

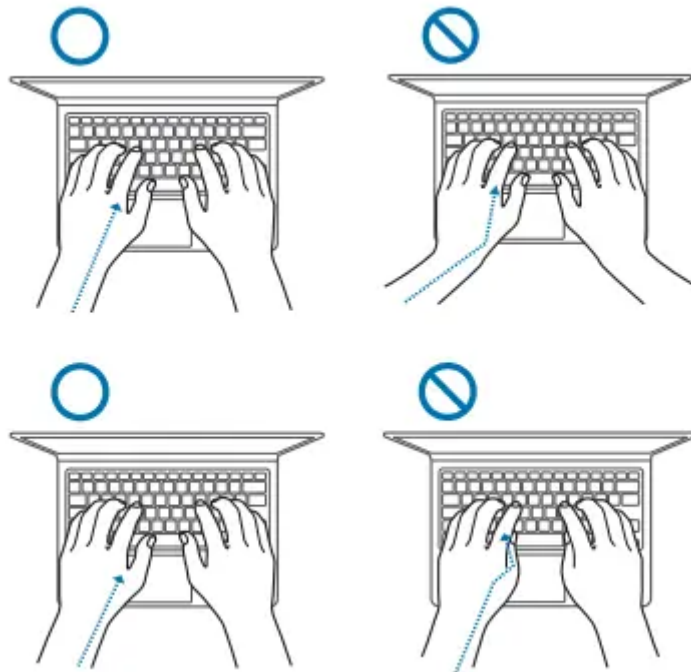
Maintaining proper posture during computer use is very important to prevent physical injury. Improper or prolonged keyboard use may result in repetitive strain injury. Viewing the monitor screen for extended periods of time may result in eye strain. Therefore, please follow these guidelines carefully when setting up and using the computer.

Back and neck



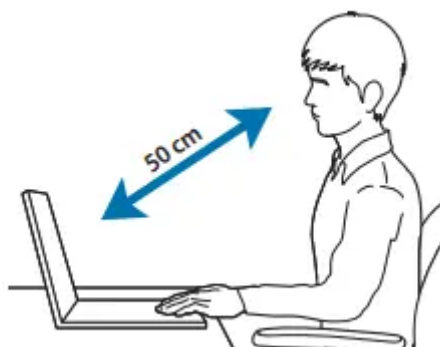
- Use an adjustable chair with firm, comfortable support.
- Adjust the height of your chair so that thighs are horizontal to the floor and feet are flat on the floor.
- The back of the chair should support the lower back. Adjust the backrest to fit your body properly.
- Sit back fully in your chair and straighten the back and neck.
- Avoid leaning forward or craning your neck toward the computer screen.
- Avoid using the computer while lying down or on your lap.
- If the computer's temperature increases, there is a danger of burn injury

Arms and hands



- When using the keyboard and touchpad, the shoulders should be relaxed. The upper arm and forearm should form an angle that is slightly greater than a right angle, with the wrist and hand in almost a straight line.
- Use a light touch when typing or using the touchpad and keep the hands and fingers relaxed. Avoid rolling the thumbs under your palms or supporting the wrists on the desk while typing.
- Use an external keyboard and mouse when using the computer for long periods. When using an external keyboard and mouse, position the devices at the same height as the computer and within comfortable reach.

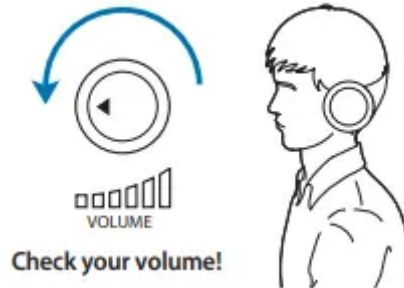
Eye position and display illumination



- Position the screen at least 50 cm away from your eyes.
- Adjust the height of the screen so that its top edge is equal to or just below the level of your eyes.
- Avoid setting the screen's brightness settings excessively high.

- Keep the screen clean.
- If wearing glasses, clean them before using the computer.
- When referring to printed content while typing, use a static paper holder to hold the paper at about the same height as the monitor.

Hearing and volume control



- Ensure that the volume is not too loud before using a headset or earphones. Excessive exposure to loud sounds can cause hearing damage.
- Always turn the volume down before plugging the earphones into an audio source and use only the minimum volume setting necessary to hear your conversation or music.
- Avoid using earphones for long periods of time.
- Default audio settings can be changed by software and driver updates without your knowledge. Always recheck equalizer and volume settings before listening to audio.
- To prevent possible hearing damage, do not listen at high volume levels for long periods



Operating conditions

- Take at least a 10 minute break every hour.
- Avoid using the computer in dark locations. Use the computer with as much ambient light as you would when reading a book.
- Indirect illumination is recommended. Use a curtain to prevent reflections and glare on the screen.
- While operating a computer and talking on a phone, use a headset. Using the computer while holding a phone on your shoulder or with your neck may lead to muscle strain or injury.
- Keep frequently used items within reach.

- Only use the computer within the temperature and humidity ranges specified in this manual.

Use caution when exposed to flashing lights.

- While using your computer, leave some lights on in the room and do not hold the screen too close to your eyes.
- Seizures or blackouts can occur when you are exposed to flashing lights while watching videos or playing Flash-based games for extended periods. If you feel any discomfort, stop using the computer immediately.
- If anyone related to you has experienced seizures or blackouts while using a similar product, consult a physician before using the computer.
- If you feel discomfort, such as a muscle spasm, or disoriented, stop using the computer immediately and consult a physician.
- To prevent eye strain, take frequent breaks while using the computer.

Reduce the risk of repetitive motion injuries.

When you repetitively perform actions, such as pressing keys, drawing characters on a touch screen with your fingers, or playing games, you may experience occasional discomfort in your hands, neck, shoulders, or other parts of your body. When using your computer for extended periods, hold the computer with a relaxed grip, press the keys lightly, and take frequent breaks. If you continue to have discomfort during or after such use, stop using the computer and consult a physician.

Safety precautions

For your safety and security and to prevent damage, carefully read the following safety instructions. This 'Safety precautions' relate to computer use. Some of the content may not be applicable to your computer.

Power related

Handle the power cord with care.

- Do not touch with wet hands.
- Do not use a damaged power cord.
- Do not overload a multi-outlet or an extension cord beyond the specified voltage/ current capacity.
- Firmly insert the power cable into the AC adapter.
- Do not unplug the power cord by pulling on the cable.
- Unplug the wall-mount AC adapter (integrated plug and power adapter) from the wall outlet while holding the body and pulling it in the direction of the arrow. Failure to do so may result in electric shock or fire.

Connect the power cord to the AC adapter firmly.

An improper connection may result in a fire.

Use the approved adapter or cable included in the product box.

If you use the unapproved adapter or cable, it cause the damage or malfunction of the computer.

Use only properly earthed electric sockets or extension cords.

Unearthed electric sockets or extension cords may cause electric shock. Any connection to unearthed electric sockets or extension cords may produce an electric field from a current leak.

If water or other substances enter the product, disconnect the power cable and contact a Samsung Service Center. For notebook computers that are supplied with an optional removable battery, disconnect the battery.

Failure to do so may result in electric shock or fire due to computer malfunction.

Do not let dust accumulate on the power cord or the electric socket. Regularly wipe the power cord and the electric socket with a dry cloth.

Failure to do so may result in electric shock or fire.

Do not bend or damage the power cable or the AC adapter with a heavy or sharp-edged object.

A damaged cable or cord may result in electric shock or fire.

Keep the battery, AC adapter, and power cord away from infants, children, and pets.

Failure to do so may result in electric shock or damage.

Battery usage related

Use manufacturer-approved batteries, chargers, accessories, and supplies.

- Using generic batteries or chargers may shorten the life of your product or cause the computer to malfunction. They may also cause a fire or cause the battery to explode.
- Use only Samsung-approved battery and charger specifically designed for your device. Incompatible battery and charger can cause serious injuries or damage to your device.
- Samsung cannot be responsible for the user's safety when using accessories or supplies that are not approved by Samsung.

Take care to not allow metal objects such as a key or clip to touch the battery terminal (metal parts).

This may cause excessive current and result in fire, burns, or damage to the battery.



If the computer or the computer battery leaks, emits strange odors, or swells, immediately stop using the computer and contact a Samsung Service Center.

Failure to do so may result in an explosion or fire.

Replace a run-down battery with a new, Samsung-approved battery.

Dispose of worn-out batteries properly.

- There is a danger of fire or explosion.
- The battery disposal method may differ depending on your country and region.
Dispose of the used battery in an appropriate way.

When removing the real time clock (RTC) battery, keep it away from infants and children.

If a child swallows the battery, the child may suffocate. If this happens, immediately contact a doctor.

Do not throw or disassemble the battery and do not put it into water.

There is a danger of injury, fire or explosion.

Charge the battery according to the instructions in the manual.

Failure to do so may cause an explosion or fire.

Usage related

Do not use the computer on heated floors or electric pads, or on beds, blankets, or cushions that block the ventilation of the computer.

A blocked vent causes the computer to overheat, resulting in an explosion, fire, burns, or computer malfunction.

Do not use the computer in hot or humid locations, such as a bathroom, sauna, or inside a car during summer.

Failure to do so may result in computer malfunction or electric shock.

The computer can be used in locations with an ambient temperature of 10 °C to 35 °C and a relative humidity of 20 % to 80 %RH.

To avoid suffocation, keep the plastic bag away from infants and children.

Putting a plastic bag over the head may result in suffocation.

Never heat the computer (or the battery) or put the computer (or the battery) into a fire or microwave.

Failure to do so may result in an explosion or fire.

Before cleaning the computer, disconnect all the cables that are connected to the computer. For notebook computers that are supplied with an optional removable battery, disconnect the battery.

Failure to do so may result in electric shock or fire.

Keep the computer away from water or liquid.

Water or liquid entering the computer may short-circuit the computer, resulting in electric shock or fire.

If the computer is dropped or broken, disconnect the power and contact a Samsung Service Center. For notebook computers that are supplied with an optional removable battery, disconnect the battery.

Using a broken computer may result in electric shock or fire.

Do not touch the computer's surface or the vents for extended periods while the computer is on.

Contact with the vent or the surface for extended periods may result in low-temperature burns, such as redness on the skin.

Do not carry your device in your back pockets.

The device may be damaged, explode, or result in a fire if too much pressure is applied to it.

You may be injured if you are bumped or fall.

Installation related

Do not block the ports (holes), vents, etc. of the product and do not insert objects.

Damage to a component within the computer may cause electric shock or fire.

When using the computer on its side, ensure the vents are clear and facing upwards.

Failure to do so, may cause the internal temperature of the computer to rise and the computer to malfunction or halt.

Keep the computer's vents at least 15 cm away from walls and other objects.

Failure to do so may result in physical injury.

Do not place or use the computer on slanted or vibrating surfaces.

Failure to do so may result in computer malfunction or damage.

Do not place heavy objects on the product.

This may cause a problem with the computer. In addition, the object may fall and cause injury or damage the computer.

Properly shut down, disconnect and secure the computer cables before moving it.

Failure to do so may damage the computer or cause someone to trip over a loose cable.

Usage related

Do not use the pen for unintended purposes, such as poking the body like eyes or ears, and do not put it in your mouth.

Doing so may result in physical injury.

Do not place a candle, lit cigar, etc., over or on the product.

There is a danger of fire.

Make sure to have the product tested by a safety service engineer after repairing the product.

Using a repaired product without testing it for safety may cause an electric shock or fire.

In case of lightning, immediately turn the system off, then disconnect the power cord from the wall outlet and phone line from modem.

There is a danger of electric shock or fire.

Connect only permitted devices to the connectors or ports of the computer.

Failure to do so may result in an electric shock or fire.

Close the LCD panel only after checking if the notebook computer is turned off.

The temperature may rise and it may cause deformation of the product.

Do not press the eject button while the CD-ROM drive is in operation.

You might lose data and the disc might be suddenly ejected and could cause an injury.

Do not drop or hit the computer against anything.

Failure to do so may result in physical injury or computer malfunction.

When handling computer parts, follow the instructions on the manual supplied with the parts.

Failure to do so may result in damage to the product.

If the product emits smoke or there is a burning smell, disconnect the power plug from the wall outlet and contact a Samsung Service Center immediately. For notebook computers that are supplied with an optional removable battery, disconnect the battery.

There is a danger of fire.

Do not store your device near or in heaters, microwaves, hot cooking equipment, or high pressure containers.

- The battery may leak.
- Your device may overheat and cause a fire.

Do not use damaged or illegally modified CDs.

There is a danger of damaging the product or personal injury.

Do not insert your fingers into the ports (holes), card slot, or vents.

There is a danger of injury or electric shock.

Use recommended computer cleansing solutions when cleaning the product and only use the computer when it is completely dry.

Failure to do so may result in electric shock or fire.

You should not use a paper clip to perform an emergency disc ejection while the disc is in motion. Make sure to use the emergency disc eject method only when the Optical Disc Drive has stopped.

There is a danger of injury

Do not place your face close to the Optical Disc Drive tray when it is operating.

There is a danger of injury due to an abrupt ejection.

Do not use the product if it is cracked or broken.

Broken glass or acrylic could cause injury to your hands and face.

Take the device to a Samsung Service Center to have it repaired.

When using wireless communication (LAN, Bluetooth, etc.) always follow applicable instructions. For example, airlines and hospitals have strict requirements.

Avoid exposing a drive to magnetic fields. Security devices with magnetic fields include airport walk-through devices and security wands. The airport security devices that check carry-on luggage use X-rays instead of magnetism and will not damage a drive.

Keep the computer away from magnetic material.

- Magnetic materials may cause computer malfunction or cause the battery to discharge.
- To avoid damaging the computer or magnetic stripe cards, such as credit cards, keep magnetic stripe cards away from the computer.

Do not use your computer in a hospital or on an aircraft that can be interfered with by radio frequency.

- Avoid using your computer within a 15 cm range of a pacemaker, if possible, as your computer can interfere with the pacemaker.
- To minimize possible interference with a pacemaker, use your computer only on the side of your body that is opposite the pacemaker.

- If you use medical equipment, contact the equipment manufacturer before using your computer to determine whether or not the equipment will be affected by radio frequencies emitted by the computer.
- When in a hospital, turn off your computer and follow all hospital regulations. Radio frequencies emitted from the computer may affect medical equipment.

Upgrade Related

Do not attempt to upgrade the computer, unless you are qualified. Otherwise, contact a Samsung Service Center or an authorized technician.

When you upgrade permitted devices, according to the manual, follow the specified instructions in the manual to upgrade them. Do not disassemble any other parts by yourself.

Failure to do so may result in computer malfunction, electric shock, or fire.

Take care when touching the product or parts.

The computer may be damaged or you may be injured.

Do not disassemble the power supply unit in any circumstances.

Failure to do so may result in electric shock, fire, or an explosion.

Shut down the computer and disconnect all cables before disassembling the computer. For notebook computers that are supplied with an optional removable battery, disconnect the battery.

Failure to do so may cause electric shock.

Make sure to close the computer cover before connecting the power after a reassembly.

There is a danger of electric shock if your body touches an internal part.

Never disassemble or repair the product by yourself.

There is danger of an accident. Use authorized Samsung Service Center.

To connect a device that is not manufactured or authorized by Samsung, enquire at a Samsung Service Center before connecting the device.

There is a danger of damaging the product.

Storage and movement related

Do not store the computer in an enclosed space, such as a computer bag, while it is running.

Failure to do so may result in fire. Completely shut down the computer before putting the computer into an enclosed space.

When carrying the notebook computer with other items, such as the adapter, mouse, books etc., take care not to press anything against the notebook computer.

If a heavy object is pressed against the notebook computer, a white spot or stain may appear on the LCD.

Do not operate or look at the computer while driving a vehicle.

There is a danger of a traffic accident. Please concentrate on driving.

For long periods of inactivity or storage, discharge the battery and separate it from the computer (for external or removable battery types).

Cautions on preventing data loss (storage device (e.g. HDD, SSD, eMMC) management)

Take care not to damage the data on a storage device (e.g. HDD, SSD, eMMC).

Subjecting the device to physical impacts may result in data loss.

Data may be lost when the computer is turned off or reset by a power failure while the storage device (e.g. HDD, SSD, eMMC) is operating.

Data may be lost and irrecoverable due to a computer virus.

Data may be lost if the power is turned off while running an application.

Samsung is not liable for any loss of data on a storage device (e.g. HDD, SSD, eMMC).

To prevent data loss due to damage to a storage device (e.g. HDD, SSD, eMMC), please back up the data frequently.

LCD bad pixels

Samsung observes strict specifications regarding the quality and reliability of the LCD. However, there is a small chance that a few pixels may be bad. A large number of bad pixels can cause problems with the display, but a small number of bad pixels does not generally affect computer performance.

Samsung's quality standards for bad pixels are as follows:

- Bright dot: 2 or fewer
- Black dot: 4 or fewer
- Combination (bright and dark): 4 or fewer

Clean the LCD screen with a soft cloth dampened with computer cleansing detergent.

Do not use excessive force. Doing so may damage the LCD screen.

Important safety information

Safety instructions

The system is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that the safety instructions marked on the product and in the documentation are followed.

Setting up the system

- Read and follow all instructions marked on the product and in the documentation before operating the system. Retain all safety and operating instructions for future use.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable work surface.
- The product should be operated only with the type of power source indicated on the rating label.
- Ensure that the electrical outlet to power the equipment is easily accessible in case of fire or short circuit.
- If the computer has a voltage selector switch, make sure that the switch is in the proper position for your area.
- Openings in the computer case are provided for ventilation. Do not block or cover these openings. Make sure you provide adequate space, at least 6 inches (15 cm), around the system for ventilation when setting up your work area. Never insert objects of any kind into the computer ventilation openings.
- Ensure that the fan vents on the bottom of the casing are clear at all times. Do not place the computer on a soft surface, doing so will block the bottom vents.
- When using an extension cord with this system, make sure that the total power rating on the products plugged into the extension cord does not exceed the extension cord power rating.
- For computers with glossy display bezels the user should consider the placement of the computer as the bezel may cause reflections from surrounding light and bright surfaces.

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill anything on the computer or its components.
- The best way to avoid spills is to not eat or drink near the computer or its components.
- Some products have a replaceable CMOS battery on the system board. There is a danger of explosion if the CMOS battery is replaced incorrectly. Replace the battery with the same or equivalent type recommended by the manufacturer.
- Dispose of batteries according to the manufacturers instructions. If the CMOS battery requires replacement ensure that a qualified technician performs the task.
- When the computer is turned off, a small amount of electrical current still flows through the computer.
- To avoid electrical shock, always unplug all power cables, remove the battery and modem cables from the wall outlets before cleaning the system.

- Unplug the system from the wall outlet and contact a
 - Samsung Service Center if:
 - The power cord or plug is damaged.
 - Liquid has been spilled into the computer.
 - The computer does not operate properly when the operating instructions are followed.
 - The computer was dropped or the casing is damaged.
 - The computer performance changes.

Operating instructions

1. When installing and operating devices please refer to safety requirements in the user manual.
2. Devices can be used only with the equipment specified in the technical specifications of the devices.
3. If any smell of burning or smoke is detected from the computer the unit should be switched off and the battery removed. The unit should be checked by a qualified technician before reuse.
4. Service and repair of devices should be carried out by authorized service centers.
5. Do not allow the portable computer to operate with the base resting directly on exposed skin for extended periods of time. The surface temperature of the base will rise during normal operation (particularly when AC Power is present). Allowing sustained contact with exposed skin can cause discomfort or eventually a burn.

Replacement parts and accessories

Use only replacement parts and accessories recommended by manufacturer.

Battery disposal

Contact the Samsung Service Center for information on how to dispose of batteries that you cannot use or recharge any longer.

Follow all local regulations when disposing of old batteries.

Laser safety

All systems equipped with CD or DVD drives comply with the appropriate safety standards, including IEC 60825-1. The laser devices in these components are classified as “Class 1 Laser Products” under a US Department of Health and Human Services (DHHS) Radiation Performance Standard. Should the unit ever need servicing, contact an authorized service location.

Connecting and disconnecting the AC adapter

The socket-outlet shall be installed near the equipment and shall be easily accessible.

Do not unplug the power cord by pulling the cable only.

Power cord requirements

The power cord set (all plug, cable and AC adapter plug) you received with your computer meets the requirements for use in the country where you purchased your equipment.

Power cord sets for use in other countries must meet the requirements of the country where you use the computer. For more information on power cord set requirements, contact your authorized dealer, reseller, or service provider.

General requirements

The requirements listed below are applicable to all countries:

- All power cord sets must be approved by an acceptable accredited agency responsible for evaluation in the country where the power cord set will be used.
- The power cord set must have a minimum current capacity of 7A and a nominal voltage rating of 125 or 250 volts AC, as required by each country's power system (USA only).
- The appliance coupler must meet the mechanical configuration of an EN 60 320/IEC 320 Standard Sheet C7 (or C5) connector, for mating with appliance inlet on the computer.

Regulatory compliance statements

Wireless guidance

If fitted with 2.4 G band or 5 G band)

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in the notebook system. The following section is a general overview of considerations while operating a wireless device.

Additional limitations, cautions, and concerns for specific countries are listed in the specific country sections (or country group sections). The wireless devices in the system are only qualified for use in the countries identified by the Radio Approval

Marks on the system rating label. If the country you will be using the wireless device in, is not listed, please contact your local Radio Approval agency for requirements. Wireless devices are closely regulated and use may not be allowed.

The RF field strength of the wireless device or devices that may be embedded in the notebook are well below all international RF exposure limits as known at this time. Because the wireless devices (which may be embedded into the notebook) emit less energy than is allowed in radio frequency safety standards and recommendations, manufacturer believes

these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

Some circumstances require restrictions on wireless devices.

Examples of common restrictions are listed on the next page:

Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane. 802.11ABGN (also known as wireless Ethernet or Wi-Fi) and Bluetooth communication devices are examples of devices that provide wireless communication.

In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, hospitals, and oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.

Every country has different restrictions on the use of wireless devices. Since your system is equipped with a wireless device, when traveling between countries with your system, check with the local Radio Approval authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination country.

If the system came equipped with an internal embedded wireless device, do not operate the wireless device unless all covers and shields are in place and the system is fully assembled.

Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Please contact the manufacturer for service.

Only use drivers approved for country in which the device will be used. See the manufacturer System Restoration Kit, or contact the manufacturer's technical support for additional information.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.