HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

BC

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# IN SEARCH OF INCREDIBLE

E-Manual

ASUS

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Visit our multi-language website at https://www.asus.com/support/.

MyASUS offers a variety of support features including troubleshooting, products performance optimization, ASUS software integration, and helps you to organize personal desktop and increase storage space. For more details, please visit https://www.asus.com/support/FAQ/1038301/.

# Table of Contents


About this manual ..... 7
- Conventions used in this manual ..... 8
- Icons ..... 8
- Typography ..... 8

Safety precautions ..... 9
- Using your Notebook PC ..... 9
- Caring for your Notebook PC ..... 10
- Proper disposal ..... 11
- Battery safety information ..... 12

## Chapter 1: Hardware Setup

Getting to know your Notebook PC ..... 16
- Top View ..... 16
- Bottom View ..... 29
- Right View ..... 31
- Left View ..... 34

## Chapter 2: Using your Notebook PC

Getting started ..... 42
- Charge your Notebook PC ..... 42
- Lift to open the display panel ..... 44
- Press the power button ..... 44

Gestures for the touch screen panel and touchpad ..... 45
- Using touch screen panel gestures ..... 45
- Using the touchpad ..... 47

Using the SensePoint ..... 54
- SensePoint features ..... 54

Using the keyboard ..... 56
- HotKeys ..... 56
- Function keys ..... 59
- Windows keys ..... 59
- Using the numeric keypad ..... 60

Rotating the display panel ..... 61

## Chapter 3: Working with Windows

Starting for the first time....64
Start menu....65
Windows apps....67
MyASUS Splendid....68
Connecting to wireless networks....70
Wi-Fi....70
Bluetooth....71
Airplane mode....72
Connecting to wired networks....73
Turning your Notebook PC off....74
Putting your Notebook PC to sleep....75

## Chapter 4: Power-On Self-Test (POST)

The Power-On Self-Test (POST)....78
Using POST to access BIOS and Troubleshoot....78
BIOS....78
Accessing BIOS....78
Recovering your system....79
Performing a recovery option....80

## Tips and FAQs

Useful tips for your Notebook PC....82
Hardware FAQs....84
Software FAQs....87

## Appendices

Internal Modem Compliancy ..... 90
Overview ..... 90
Network Compatibility Declaration ..... 91
Non-Voice Equipment ..... 91
Federal Communications Commission Interference Statement ..... 93
FCC Radio Frequency (RF) Exposure Caution Statement ..... 94
RF Exposure Information (SAR) ..... 95
Radiation Exposure Statement ..... 95
Déclaration relative à l'exposition aux radiations ..... 95
Radio Frequency (RF) Exposure Information ..... 96
Informations concernant l'exposition aux fréquences radio (RF) ..... 96
Caution ..... 97
Avertissement ..... 97
Compliance Statement of Innovation, Science and Economic Development Canada (ISED) ..... 98
Déclaration de conformité de Innovation, Sciences et Développement économique Canada (ISED) ..... 98
UL Safety Notices ..... 99
Power Safety Requirement ..... 100
TV Notices ..... 100

Macrovision Corporation Product Notice ..... 100
Prevention of Hearing Loss ..... 100
Nordic Lithium Cautions (for lithium-ion batteries) ..... 101
CTR 21 Approval (for Notebook PC with built-in Modem) ..... 102
Declaration of Compliance for Product Environmental Regulation ..... 104
EU REACH and Article 33 ..... 104
EU RoHS ..... 104
Japan JIS-C-0950 Material Declarations ..... 104
India RoHS ..... 104
Vietnam RoHS ..... 105
ASUS Recycling/Takeback Services ..... 105
Rechargeable Battery Recycling Service in North America ..... 105
Ecodesign Directive ..... 105
ENERGY STAR Qualified Product ..... 106
EPEAT Registered Products ..... 106
Coating Notice ..... 106
Regional notice for Singapore ..... 107
Notices for removable batteries ..... 107
Avis concernant les batteries remplaçables ..... 107
Wi-Fi Network Notice ..... 107
Simplified EU Declaration of Conformity ..... 108
Simplified UKCA Declaration of Conformity ..... 108
RF Exposure information (SAR) ..... 109

# About this manual

This manual provides information about the hardware and software features of your Notebook PC, organized through the following chapters:

**Chapter 1: Hardware Setup**

This chapter details the hardware components of your Notebook PC.

**Chapter 2: Using your Notebook PC**

This chapter shows you how to use the different parts of your Notebook PC.

**Chapter 3: Working with Windows**

This chapter provides an overview of using Windows in your Notebook PC.

**Chapter 4: Power-On Self-Test (POST)**

This chapter shows you how to use POST to change the settings of your Notebook PC.

**Tips and FAQs**

This section presents some recommended tips, hardware FAQs, and software FAQs you can refer to for maintaining and fixing common issues with your Notebook PC.

**Appendices**

This section includes notices and safety statements for your Notebook PC.

## Conventions used in this manual

To highlight key information in this manual, some text are presented as follows:

**IMPORTANT!** This message contains vital information that must be followed to complete a task.

**NOTE:** This message contains additional information and tips that can help complete tasks.

**WARNING!** This message contains important information that must be followed to keep you safe while performing tasks and prevent damage to your Notebook PC's data and components.

## Icons

The icons below indicate the devices you can use for completing a series of tasks or procedures on your Notebook PC.

= Use the touch screen panel (on selected models).

= Use the touchpad.

= Use the keyboard.

## Typography

**Bold** = This indicates a menu or an item that must be selected.

*Italic* = This indicates sections that you can refer to in this manual.

# Safety precautions

## Using your Notebook PC

This Notebook PC should only be used in environments with ambient temperatures between 5°C (41°F) and 35°C (95°F).

Refer to the rating label on the bottom of your Notebook PC and ensure that your power adapter complies with this rating.

Your Notebook PC can get warm to hot while in use or while charging the battery pack. Do not leave your Notebook PC on your lap or near any part of your body to prevent injury from heat. When working on your Notebook PC, do not place it on surfaces that can block the vents.

Do not use damaged power cords, accessories, and other peripherals with your Notebook PC.

While powered on, ensure that you do not carry or cover your Notebook PC with any materials that can reduce air circulation.

Do not place your Notebook PC on uneven or unstable work surfaces.

You can send your Notebook PC through x-ray machines (used on items placed on conveyor belts), but do not expose them to magnetic detectors and wands.

Contact your airline provider to learn about related in-flight services that can be used and restrictions that must be followed when using your Notebook PC in-flight.

# Caring for your Notebook PC

Disconnect the AC power and remove the battery pack (if applicable) before cleaning your Notebook PC. Use a clean cellulose sponge or chamois cloth dampened with warm water or a solution with low concentration of nonabrasive detergent. Remove any extra moisture from your Notebook PC using a dry cloth. Keep any liquids from entering the chassis or keyboard gap to prevent short circuit or corrosion.

Do not use strong solvents such as alcohol, thinners, benzene, or other chemicals on or near your Notebook PC.

Do not place objects on top of your Notebook PC.

Do not expose your Notebook PC to strong magnetic or electrical fields.

Do not use or expose your Notebook PC near liquids, rain, or moisture.

Do not expose your Notebook PC to dusty environments.

Do not use your Notebook PC near gas leaks.

Do not place active electronic devices close to your Notebook PC to avoid electromagnetic wave interference to the display panel.

Do not use this Notebook PC for cryptocurrency mining (consuming a vast amount of electricity and time to gain convertible virtual currency) and/or related activities.

## Proper disposal

Do not throw your Notebook PC in municipal waste. This product has been designed to enable proper reuse of parts and recycling. The symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment and mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

Do not throw the battery in municipal waste. The symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

# Battery safety information

## Battery protection

- Frequently charging a battery under high voltage may shorten the battery life. To protect the battery, once the battery is fully charged, the system may stop charging when the battery power is between 90% and 100%.

**NOTE:** The initiate battery power charging capacity is usually set between 90% and 99%. Actual value may vary by models.

- Charging or storing a battery in high ambient temperatures may result in permanent damage to the battery power capacity and rapidly shorten battery life. If the battery temperature is too high, the system may reduce the battery power charging capacity or even stop charging to protect the battery.
- Battery power capacity may drop even when your device is powered off and disconnected from the AC power. This is normal as the system still draws a small amount of power from the battery.

## Standard battery care

- If you are not using your device for a long period of time, ensure to charge the battery power to 50% then power off your device and disconnect the AC power adapter. Recharge the battery power to 50% every three months to avoid over-discharging and prevent damage to the battery.
- Avoid charging the battery at high voltage for a prolonged period of time to extend the battery life. If you are constantly using AC power for your device, ensure to discharge the battery power to 50% at least once every two weeks. You can also adjust the settings from Battery Health Charging in MyASUS to help extend the battery life.
- It is recommended to store your battery at temperatures between 5°C (41°F) and 35°C (95°F) with the battery power at 50%. You can also adjust the settings from Battery Health Charging in MyASUS to help extend the battery life.
- Do not leave your battery in damp environments. Exposure to damp environments may increase the battery over-discharging rate. Low temperature environment may damage the chemicals inside the battery while high temperature or overheating may result in a risk of explosion.
- Do not place your device or battery pack near radiators, fireplaces, furnaces, heaters, or any sources of heat with temperature exceeding 60°C (140°F). High temperature surrounding environment may result in an explosion or leakage that may cause fire.

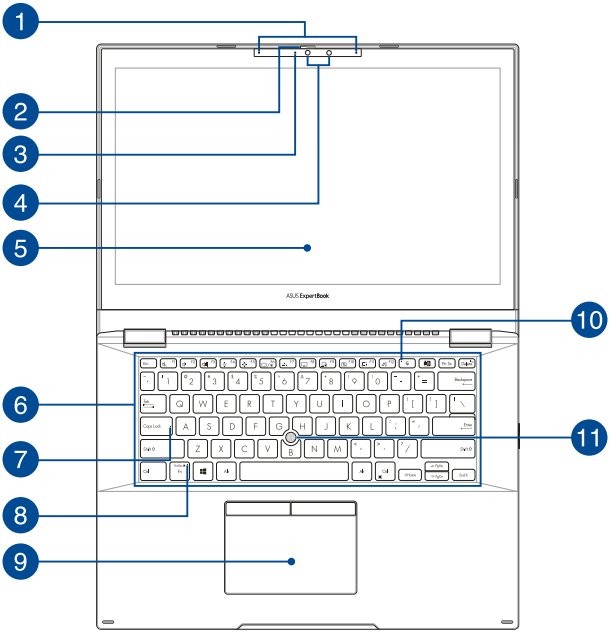
# Chapter 1:
# Hardware Setup

# Getting to know your Notebook PC

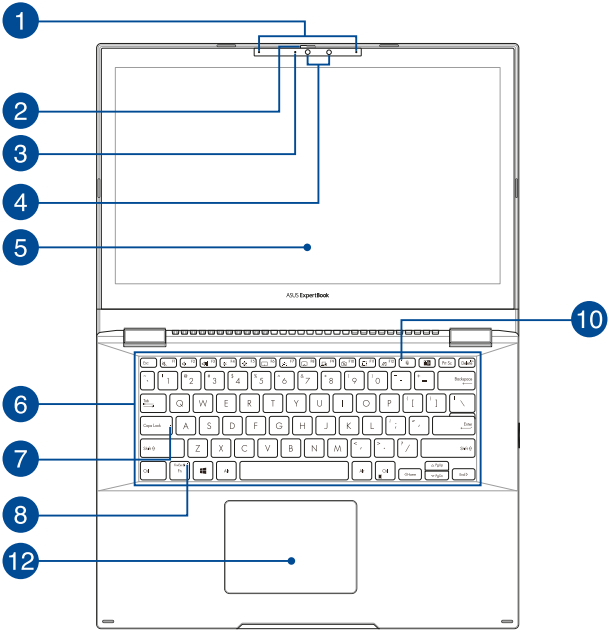
## Top View

**NOTE:** The keyboard's layout may vary per region or country. The Notebook view may also vary in appearance depending on the Notebook PC model.

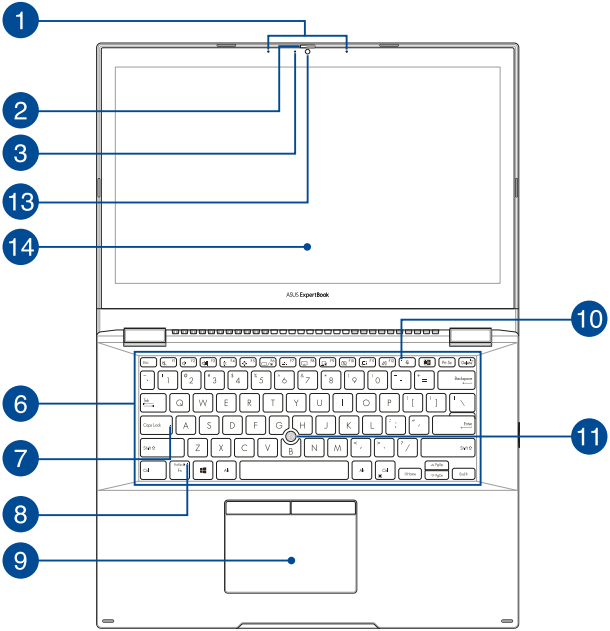
### 14" Clamshell model (with SensePoint)



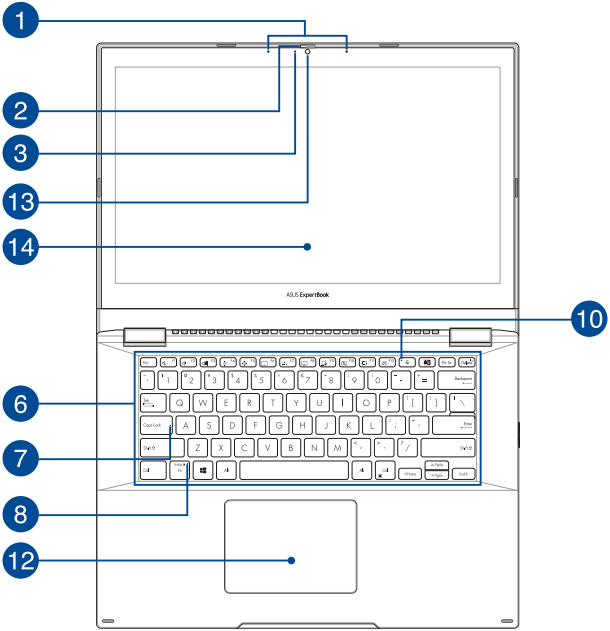
## 14” Clamshell model (without SensePoint)



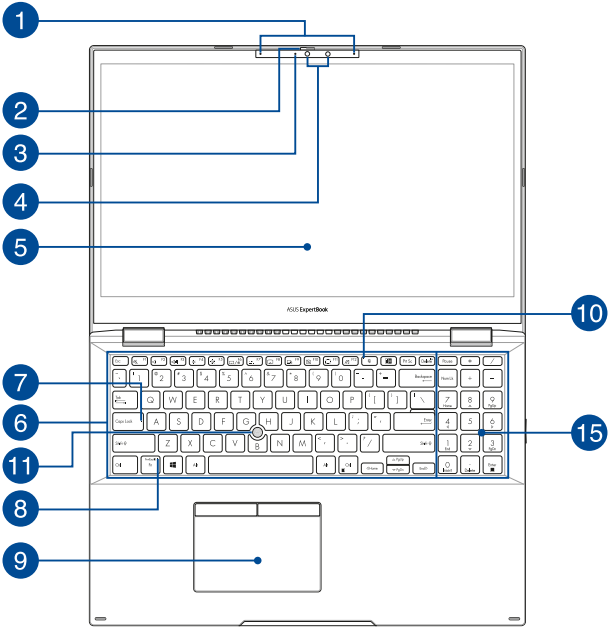
## 14” Flip model (with SensePoint)



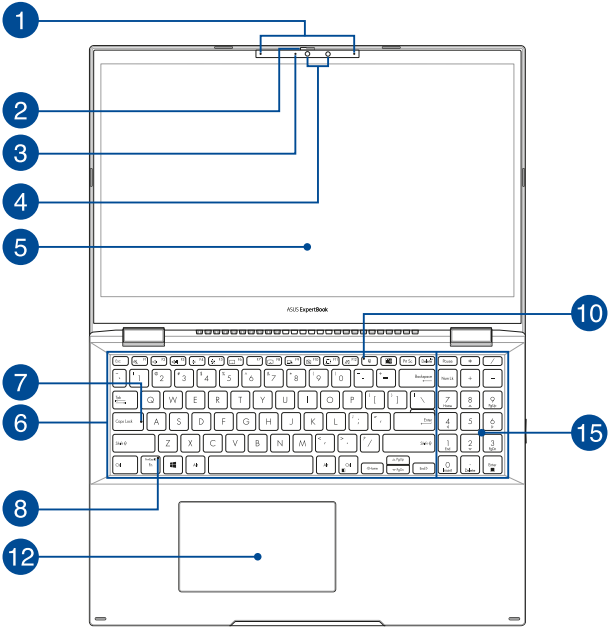
## 14” Flip model (without SensePoint)



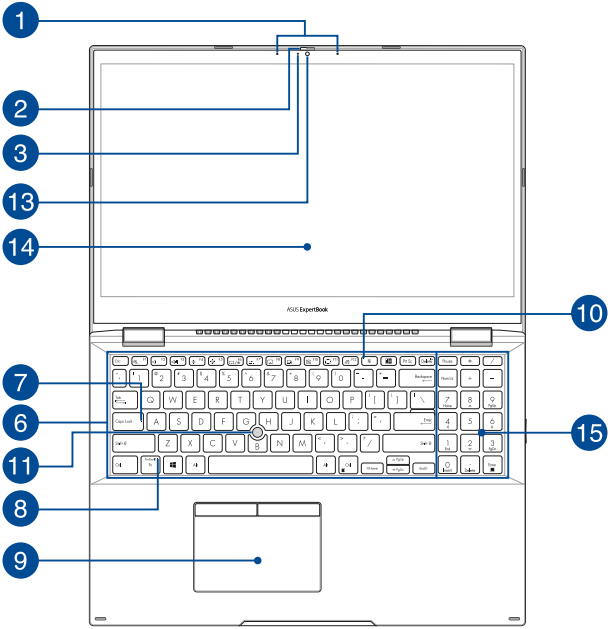
## 15” Clamshell model (with SensePoint)



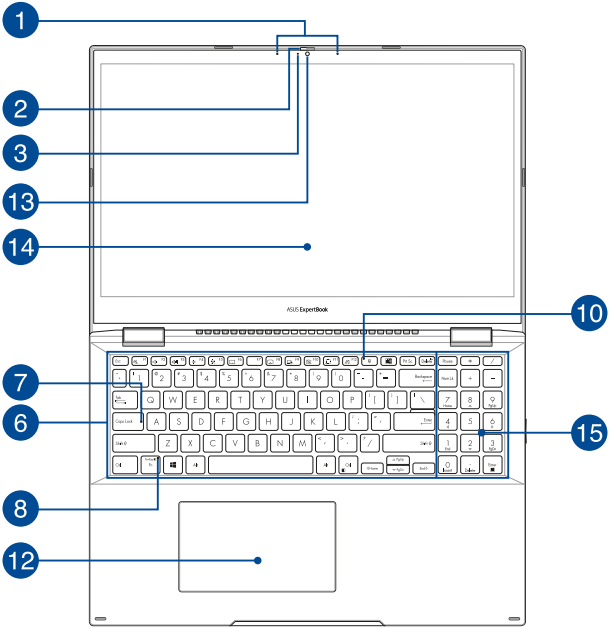
## 15” Clamshell model (without SensePoint)



## 15” Flip model (with SensePoint)



## 15” Flip model (without SensePoint)



1 **Array microphones**

The array microphones feature echo canceling, noise suppression, and beam forming functions for better voice recognition and audio recording.

2 **Webcam shield**

This allows you to cover the camera lens of your Notebook PC.

3 **Camera indicator**

The camera indicator lights up when the built-in camera is in use.

4 **Camera**

The built-in camera allows you to take pictures or record videos using your Notebook PC.

**IR Camera**

The built-in camera allows you to take pictures or record videos using your Notebook PC. The IR Camera also supports Windows Hello.

**NOTE:** The red IR LED blinks in the process while data is being read before you sign in with Windows Hello facial recognition.

## 5 Display panel

This high-definition display panel provides excellent viewing features for photos, videos, and other multimedia files on your Notebook PC.

## 6 Keyboard

The keyboard provides full-sized QWERTY keys with a comfortable travel depth for typing. It also enables you to use the function keys, allows quick access to Windows, and controls other multimedia functions.

**NOTE:** The keyboard layout differs by model or territory.

## 7 Capital lock indicator

This indicator lights up when the capital lock function is activated. Using capital lock allows you to type capitalized letters (such as A, B, C) using your Notebook PC's keyboard.

## 8 Function key lock indicator

This indicator lights up when the function keys feature is activated.

**NOTE:** For more details, refer to the *Using the keyboard* section in this manual.

## 9 Touchpad with buttons

The touchpad allows the use of multi-gestures to navigate onscreen, providing an intuitive user experience. It also simulates the functions of a regular mouse.

**NOTE:** For more details, refer to the *Using SensePoint with the touchpad buttons* section in this manual.

## 10 Microphone indicator

This indicator lights up when the microphone is turned off.

## 11 SensePoint

The SensePoint is a pressure-sensitive pointing device that allows you to move the cursor onscreen. You may also configure its settings to enable the functions of a regular mouse.

**NOTE:** For more details, refer to the *Using the SensePoint* section in this manual.

## 12 Touchpad

The touchpad allows the use of multi-gestures to navigate onscreen, providing an intuitive user experience. It also simulates the functions of a regular mouse.

**NOTE:** For more details, refer to the *Using the touchpad* section in this manual.

## 13 Camera

The built-in camera allows you to take pictures or record videos using your Notebook PC.

## 14 360º-adjustable touch screen panel

Your Notebook PC's touch screen panel can be adjusted all the way into a 360º angle. This feature allows you to quickly turn your device from a Notebook PC into a touch-enabled tablet PC.

This high-definition touch screen panel provides excellent viewing features for photos, videos, and other multimedia files on your Notebook PC. It also allows you to operate it using touch screen gestures.

**NOTE:** For more details on how to turn your Notebook PC into a tablet device, refer to the *Rotating the display panel* section in this manual.

## 15 Numeric keypad

The numeric keypad toggles between these two functions: for numeric input and as pointer direction keys.

**NOTE:** For more details, refer to the *Using the numeric keypad* section in this manual.

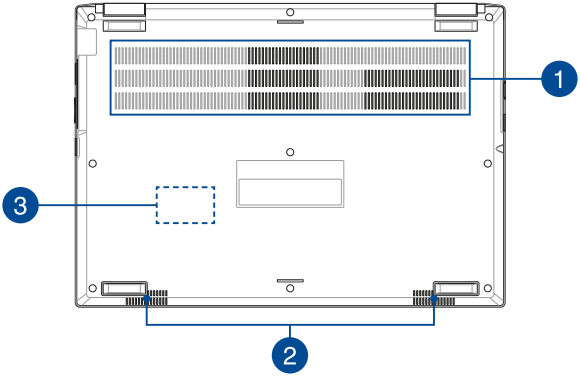
# Bottom View

**NOTE:** The bottom view may vary in appearance depending on model.

**WARNING!** Your Notebook PC can get warm to hot while in use or while charging the battery pack. Do not leave your Notebook PC on your lap or near any part of your body to prevent injury from heat. When working on your Notebook PC, do not place it on surfaces that can block the vents.

**IMPORTANT!**

- Battery time varies by usage and by the specifications for this Notebook PC. The battery pack cannot be disassembled.
- Purchase components from authorized retailers to ensure maximum compatibility and reliability. Consult an ASUS service center or authorized retailers for product service or assistance on proper disassembly or assembly of the product.



## 1 Air vents

The air vents allow cool air to enter and warm air to exit the Notebook PC.

**WARNING!** Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

## 2 Audio speakers

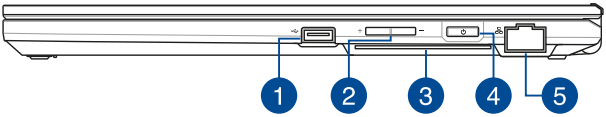
The built-in audio speakers allow you to hear audio straight from your Notebook PC. Audio features are software-controlled.

## 3 Nano SIM card slot (on selected models)

This built-in card reader slot supports Nano SIM card format.

**IMPORTANT!** Visit an authorized retailer to activate your Nano SIM card.

# Right View




1 **USB 2.0 port**

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, flash disk drives, external HDDs, speakers, cameras and printers.

2 **Volume button**

This button turns the volume up or down on your Notebook PC.

3 **Smart card reader (on selected models)**

This built-in IC card reader supports smart card formats.

4 **Power button**

Press the power button to turn your Notebook PC on or off. You can also use the power button to put your Notebook PC to sleep or hibernate mode and wake it up from sleep or hibernate mode.

In the event that your Notebook PC becomes unresponsive, press and hold the power button for at least ten (10) seconds until your Notebook PC shuts down.

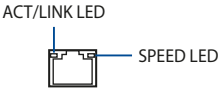
**Fingerprint sensor**

This built-in fingerprint sensor captures your fingerprint and uses it as biometric authentication for logging on to your Notebook PC's system.

5 **LAN port**

Insert the network cable into this port to connect to a local area network.

## LAN port LED indications



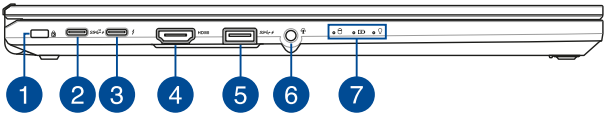

### Intel® I219-LM 1G

| Activity/Link LED | | Speed LED | |
|---|---|---|---|
| **Status** | **Description** | **Status** | **Description** |
| Off | No link | Off | 10 Mbps connection |
| Orange | Linked | Orange | 100 Mbps connection |
| Orange (blinking) | Data activity | Green | 1 Gbps connection |
| Orange (blink then stay on) | Wake from full shutdown (S5) | | |

### Intel® I225-LM 2.5G

| Activity/Link LED | | Speed LED | |
|---|---|---|---|
| **Status** | **Description** | **Status** | **Description** |
| Off | No link | Off | 10/100 Mbps connection |
| Green | Linked | Orange | 1 Gbps connection |
| Green (blinking) | Data activity | Green | 2.5 Gbps connection |
| Green (blink then stay on) | Wake from full shutdown (S5) | | |

# Left View




## 1 Kensington® security slot

The Kensington® security slot allows you to secure your Notebook PC using Kensington® compatible Notebook PC security products.

## 2 USB 3.2 Gen 2 Type-C®/Power Delivery combo port

The USB 3.2 (Universal Serial Bus 3.2) Gen 2 Type-C® port provides a transfer rate of up to 10 Gbit/s and is backward compatible to USB 2.0. Connect a power source rated 20V/3.25A to charge the battery pack and supply power to your Notebook PC.

**NOTE:** Transfer rate of this port may vary per model.

**WARNING!** The adapter may become warm to hot while in use. Do not cover the adapter and keep it away from your body while it is connected to a power source.

**IMPORTANT!**

- It may take longer to fully charge your Notebook PC through a low-voltage power source.
- To prevent any damage, use only power sources rated 20V/3.25A to charge your Notebook PC with the USB Power Delivery combo port. For more information, consult an ASUS service center for assistance.

## 3 Thunderbolt™ 4/Power Delivery combo port

The Thunderbolt™ 4 port is compatible with USB Type-C® standards, and provides a transfer rate of up to 40 Gbit/s for Thunderbolt™ 4 devices. Connect your Notebook PC to a DisplayPort, VGA, DVI, or HDMI external display and experience high-resolution display features via Intel® Thunderbolt™ technology. Connect a power source rated 20V/3.25A to charge the battery pack and supply power to your Notebook PC.

**NOTE:** Transfer rate of this port may vary per model.

**IMPORTANT!**

- It may take longer to fully charge your Notebook PC through a low-voltage power source.
- To prevent any damage, use only power sources rated 20V/3.25A to charge your Notebook PC with the USB Power Delivery combo port. For more information, consult an ASUS service center for assistance.

4 **HDMI output port**

This port allows you to connect your Notebook PC to another HDMI-compatible device for file sharing or extending your display monitor.

5 **USB 3.2 Gen 1 port with charging function**

The USB 3.2 Gen 1 port with the ⚡ icon comes with charging function. It allows you to charge mobile devices and can be used even while your Notebook PC is on sleep, hibernate, or shutdown mode.

6 **Headphone/Headset/Microphone jack**

This port allows you to connect amplified speakers or headphones. You can also use this port to connect your headset or an external microphone.

## 7 Status indicators

The status indicators help identify the current hardware status of your Notebook PC.

### Drive activity indicator

This indicator lights up when your Notebook PC is accessing the internal storage drives.

### Two-color battery charge indicator

The two-color LED provides a visual indication of the battery's charge status. Refer to the following table for details:

| Color | Status |
|---|---|
| **Solid White** | The Notebook PC is plugged to a power source and the battery power is between 95% and 100%. |
| **Solid Orange** | The Notebook PC is plugged to a power source, charging its battery, and the battery power is less than 95%. |
| **Blinking Orange** | The Notebook PC is running on battery mode and the battery power is less than 10%. |
| **Lights off** | The Notebook PC is running on battery mode and the battery power is between 10% to 100%. |

### Power indicator

The power indicator lights up when the Notebook PC is turned on and blinks slowly when the Notebook PC is in sleep mode.

# Chapter 2:
# Using your Notebook PC

# Getting started

## Charge your Notebook PC

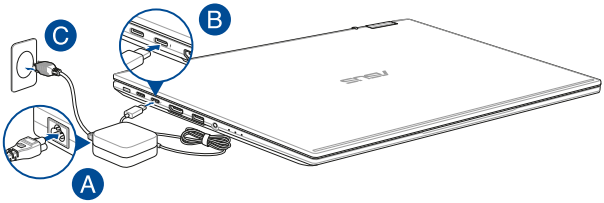
A. Connect the AC power cord to the AC/DC adapter.

B. Connect the DC power connector into your Notebook PC's power (DC) input port.

C. Plug the AC power adapter into a 100V~240V power source.

Charge the Notebook PC for **3 hours** before using it in battery mode for the first time.

**NOTE:** The power adapter may vary in appearance, depending on models and your region.




**IMPORTANT!**

Power adapter information:

- Input voltage: 100-240Vac
- Input frequency: 50-60Hz
- Rating output current: 3.25A (65W)
- Rating output voltage: 20V

**IMPORTANT!**

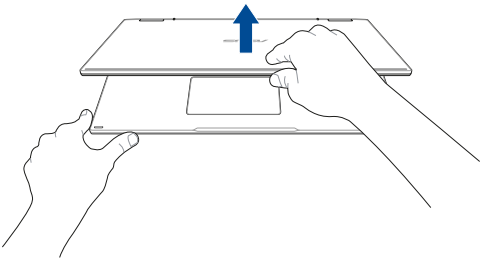
- Locate the input/output rating label on your Notebook PC and ensure that it matches the input/output rating information on your power adapter. Some Notebook PC models may have multiple rating output currents based on the available SKU.
- Ensure that your Notebook PC is connected to the power adapter before turning it on for the first time. Always plug the power cord into a wall socket without using any extension cords. For your safety, connect this device to a properly grounded electrical outlet only.
- The socket outlet must be easily accessible and near your Notebook PC.
- To disconnect your Notebook PC from its main power supply, unplug your Notebook PC from the power socket.

**WARNING!**

Read the following precautions for your Notebook PC's battery:

- Only ASUS-authorized technicians should remove the battery inside the device (for non-removable battery only).
- The battery used in this device may present a risk of fire or chemical burn if removed or disassembled.
- Follow the warning labels for your personal safety.
- Risk of explosion if battery is replaced by an incorrect type.
- Do not dispose of in fire.
- Never attempt to short-circuit your Notebook PC's battery.
- Never attempt to disassemble and reassemble the battery (for non-removable battery only).
- Discontinue usage if leakage is found.
- The battery and its components must be recycled or disposed of properly.
- Keep the battery and other small components away from children.

## Lift to open the display panel



## Press the power button

# Gestures for the touch screen panel and touchpad

Gestures allow you to launch programs and access the settings of your Notebook PC. Refer to the following illustrations when using hand gestures on your touch screen panel and touchpad.

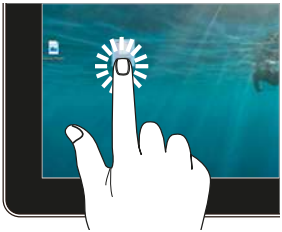
**NOTE:**

- The following screenshots are for reference only. The touch screen panel's appearance may vary depending on model.
- The touch screen panel is available on selected models.

## Using touch screen panel gestures

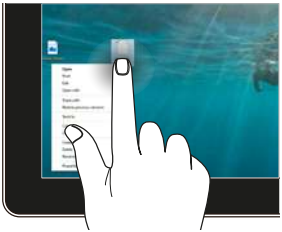
The gestures allow you to launch programs and access the settings of your Notebook PC. The functions can be activated by using the hand gestures on your Notebook PC's touch screen panel.

**Tap/Double-tap**



- Tap an app to select it.
- Double-tap an app to launch it.

**Press and hold**



Press and hold to open the right-click menu.

## Zoom in

Spread apart your two fingers on the touch screen panel.

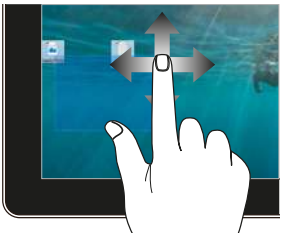
## Zoom out

Bring together your two fingers on the touch screen panel.

## Finger slide

Slide your finger to scroll up and down and slide your finger to pan the screen left or right.

## Drag



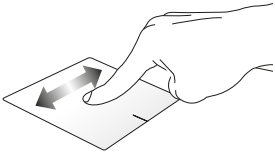
- Drag to create a selection box around multiple items.
- Drag and drop an item to move it to a new location.

# Using the touchpad

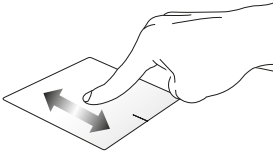
## Moving the pointer

You can tap anywhere on the touchpad to activate its pointer, then slide your finger on the touchpad to move the pointer onscreen.

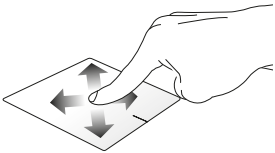
**Slide horizontally**



**Slide vertically**

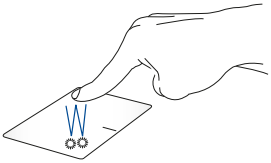


**Slide diagonally**



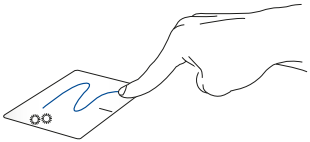
## One-finger gestures

### Tap/Double-tap



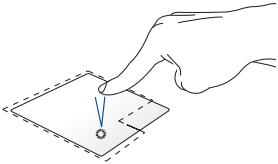
- Tap an app to select it.
- Double-tap an app to launch it.

### Drag and drop



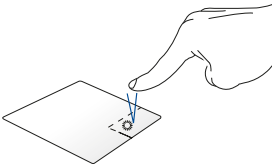
Double-tap an item, then slide the same finger without lifting it off the touchpad. To drop the item to its new location, lift your finger from the touchpad.

**Left-click**



- Click an app to select it.
- Double-click an app to launch it.

**Right-click**

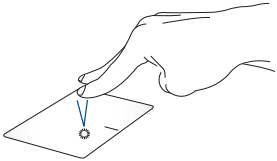


Click this button to open the right-click menu.

**NOTE:** The areas inside the dotted line represent the locations of the left mouse button and the right mouse button on the touchpad.

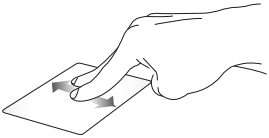
## Two-finger gestures

**Tap**



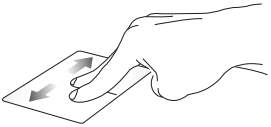
Tap two fingers on the touchpad to simulate the right-click function.

**Two-finger scroll (up/down)**



Slide two fingers to scroll up or down.

**Two-finger scroll (left/right)**

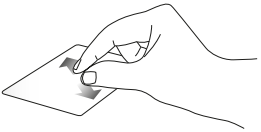


Slide two fingers to scroll left or right.

**Zoom out**

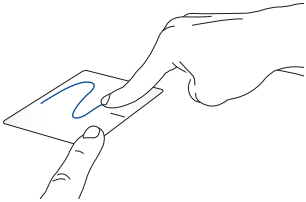
Bring together your two fingers on the touchpad.

**Zoom in**



Spread apart your two fingers on the touchpad.

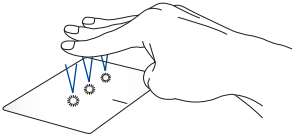
### Drag and drop



Select an item then press and hold the left button. Using your other finger, slide on the touchpad to drag the item, lift your finger off the button to drop the item.

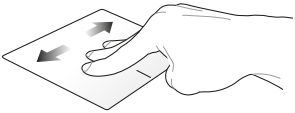
## Three-finger gestures

### Tap



Tap three fingers on the touchpad to launch the function you selected in Settings.

**Swipe left/Swipe right**

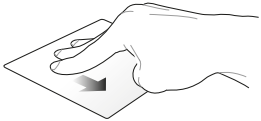


If you opened multiple apps, swipe three fingers left or right to switch between these apps.

**Swipe up**

Swipe up to see an overview of all the apps currently opened.

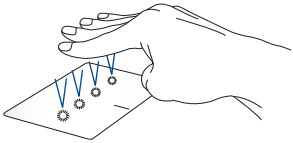
**Swipe down**



Swipe down to show the desktop.

## Four-finger gestures

### Tap



Tap four fingers on the touchpad to launch the function you selected in Settings.

# Using the SensePoint

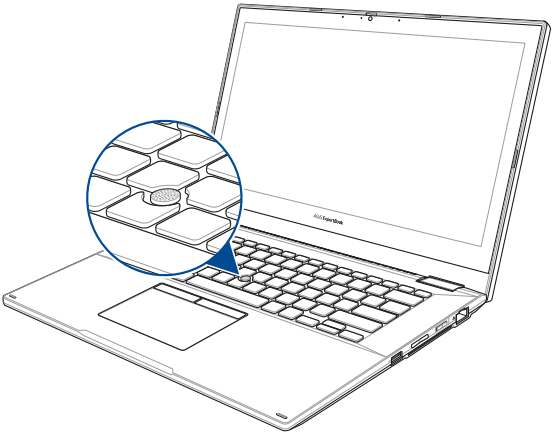
Your Notebook PC comes with the SensePoint which can be used to move the mouse pointer or cursor onscreen. You can also use this to simulate the functions of a regular mouse.

## SensePoint features

### Moving the cursor onscreen

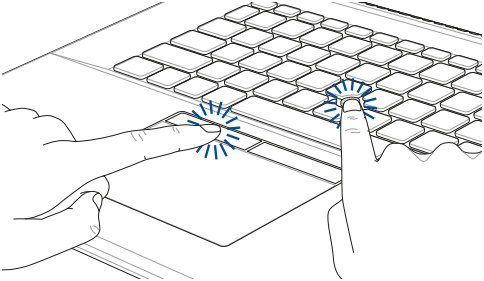
Press and hold down on the SensePoint, then move your finger to the direction where you want to move the cursor onscreen.

**IMPORTANT!** The SensePoint is pressure-sensitive. The more pressure you apply, the faster it moves the cursor onscreen.



## Using SensePoint with the touchpad buttons

### Selecting onscreen items



Press-and-hold the left touchpad button. Using another finger, apply pressure on the SensePoint to move the cursor onscreen and highlight the items you want to select.

# Using the keyboard

## HotKeys

The HotKeys on your Notebook PC's keyboard can trigger the following commands:

| | |
|---|---|
| F1 | Turns the speaker on or off |
| F2 | Turns the speaker volume down |
| F3 | Turns the speaker volume up |
| F4 | Decreases display brightness |
| F5 | Increases display brightness |

F6 Enables or disables the touchpad

F6 Enables or disables the touchpad/SensePoint*

F7 Adjusts brightness for the backlit keyboard*

F8 Toggles the display mode

**NOTE:** Ensure that the second display is connected to your Notebook PC.

** On selected models*

F9 Activates the Lock screen

F10 Turns the camera on or off

F11 Activates screen capture tool

F12 Launches MyASUS

Turns the microphone on or off

Toggles ASUS AI Noise-Canceling for built-in or external audio speakers

fn + 

**Built-in microphone**

Toggles between single presenter conference call mode or multi presenter conference call mode.

| Mode | Description |
|---|---|
| Single presenter conference call | Reduces background noise |
| Multi presenter conference call | Reduces background noise for larger area |

**External microphone**

Toggles ASUS AI Noise-Canceling.

## Function keys

Press fn + esc to enable or disable the function keys feature.

When the function keys feature is enabled, you can also access HotKeys by holding down fn in combination with the top row keys.

## Windows keys

There are two special Windows keys on your Notebook PC's keyboard used as below:

| | |
|---|---|
| or | Launches the Start menu |
| | Displays the drop-down menu* |

** On selected models*

# Using the numeric keypad

**NOTE:** The numeric keypad layout may differ by model or territory but the usage procedures remain the same.

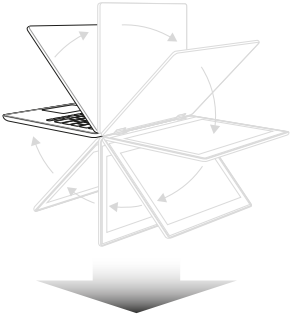
A numeric keypad is available on selected Notebook PC models. You can use this keypad for numeric input or as pointer direction keys.

Press Num Lk to toggle between using the keypad as number keys or as pointer direction keys.

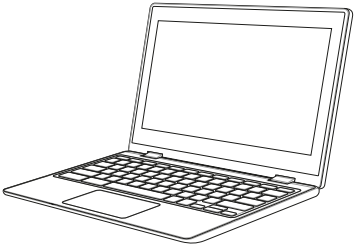
# Rotating the display panel

Your Notebook PC's display panel is adjustable up to 360 degrees. You may adjust the display panel as shown below.

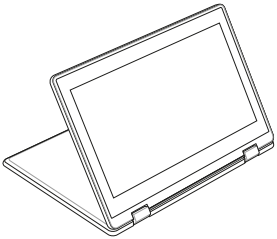
**NOTE:** The illustrations are for reference only.



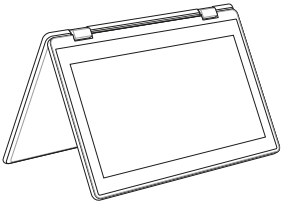
360 degrees adjustable



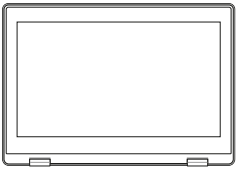
Notebook PC mode



Stand mode



Tent mode



Tablet mode

**NOTE:** Rotating the screen to Stand, Tent and Tablet mode will disable the keyboard and touchpad.

# Chapter 3:
# Working with Windows

# Starting for the first time

When you start your Notebook PC for the first time, a series of screens appear to guide you in configuring your Windows operating system. Follow the onscreen instructions to configure the following basic items:

- Personalize
- Get online
- Settings
- Your account

After configuring the basic items, Windows proceeds to install your apps and preferred settings. Ensure that your Notebook PC is kept powered on during the setup process. Once the setup process is complete, the Desktop appears.

**NOTE:** The screenshots in this chapter are for reference only.

# Start menu

The Start menu is the main gateway to your Notebook PC's programs, Windows apps, folders, and settings. You can use the Start menu to do these common activities:

- Start programs or Windows apps
- Open commonly used programs or Windows apps
- Adjust Notebook PC settings
- Get help with the Windows operating system
- Turn off your Notebook PC
- Log off from Windows or switch to a different user account

## Launching the Start menu

Tap the Start icon on your desktop.

Position your mouse pointer over the Start icon on your desktop then click it.

Press the Windows logo key on your keyboard.

## Opening programs from the Start menu

One of the most common uses of the Start menu is opening programs installed on your Notebook PC.

Tap the program to launch it.

Position your mouse pointer over the program then click to launch it.

Use the arrow keys to browse through the programs.

Press to launch it.

# Windows apps

**NOTE:** Some Windows apps require signing in to your Microsoft account before they are fully launched.

## Launching Windows apps from the Start menu

Tap the app to launch it.

Position your mouse pointer over the app then click to launch it.

Use the arrow keys to browse through the apps. Press

to launch an app.

# MyASUS Splendid

MyASUS Splendid ensures that all ASUS display panels show identical and accurate colors. You may select Vivid, Eye Care, or Manual Mode beside Normal Mode to adjust the display settings.

- **Normal Mode:** Through Gamma and Color temperature correction, the image output from the panel is as close as possible as what your eye can naturally see. For model with OLED panel, this mode is compliant with TÜV Low Blue Light Certification.
- **Vivid Mode:** This mode allows you to adjust the saturation of the image, making it more vivid and vibrant.
- **Manual Mode:** This mode allows you to adjust the color temperature value to your personal needs, ranging from -50 to +50.
- **Eye Care Mode:** This mode reduces blue light emission by up to 30%, helping to protect your eyes.

  Level 1-5: The higher the level, the more blue light emission is reduced. For model with LCD panel, Level 5 is the optimized setting, and is compliant with TÜV Low Blue Light Certification.

**NOTE:** Enable **HDR** from **Settings** > **System** > **Display** for a better viewing experience with your OLED panel (on selected models), and is compliant with TÜV Flicker Free Certification.

Please refer to the following tips to alleviate eye strain:

- Take some time away from the display if working for long hours. It is advised to take short breaks (at least 5 minutes) after around 1 hour of continuous working at the computer. Taking short and frequent breaks is more effective than a long break.
- To minimize eye strain and eye dryness, rest your eyes periodically by focusing on objects that are far away.
- Repeat the following exercises to reduce eye strain:

  (1) Look up and down repeatedly

  (2) Slowly roll your eyes

  (3) Move your eyes diagonally

  If eye strain persists, please consult a physician.
- High energy blue light may lead to eye strain and AMD (Age-Related Macular Degeneration). Blue light Filter reduces 30% (max.) harmful blue light to avoid CVS (Computer Vision Syndrome).

# Connecting to wireless networks

## Wi-Fi

Access emails, surf the Internet, and share applications via social networking sites using your Notebook PC's Wi-Fi connection.

**IMPORTANT! Airplane mode** disables this feature. Ensure that **Airplane mode** is turned off before enabling the Wi-Fi connection of your Notebook PC.

### Connecting Wi-Fi

Connect your Notebook PC to a Wi-Fi network by using the following steps:

or

1. Click/Tap the **Wi-Fi** icon from the taskbar to enable Wi-Fi.
2. Select an access point from the list of available Wi-Fi connections.
3. Select **Connect** to start the network connection.

**NOTE:** You may be prompted to enter a security key to activate the Wi-Fi connection.

# Bluetooth

Use Bluetooth to facilitate wireless data transfers with other Bluetooth-enabled devices.

**IMPORTANT! Airplane mode** disables this feature. Ensure that **Airplane mode** is turned off before enabling the Bluetooth connection of your Notebook PC.

## Pairing with other Bluetooth-enabled devices

You need to pair your Notebook PC with other Bluetooth-enabled devices to enable data transfers. Connect your devices by using the following steps:

1. Launch **Settings** from the Start menu.
2. Select **Devices** > **Bluetooth** to search for Bluetooth-enabled devices. (*for Windows 10*)

   or

   Select **Bluetooth & devices** > **Add device** to search for Bluetooth-enabled devices. (*for Windows 11*)
3. Select a device from the list to pair your Notebook PC with the device.

**NOTE:** For some Bluetooth-enabled devices, you may be prompted to key in the passcode of your Notebook PC.

# Airplane mode

Airplane mode disables wireless communication, allowing you to use your Notebook PC safely while in-flight.

**NOTE:** Contact your airline provider to learn about related in-flight services that can be used and restrictions that must be followed when using your Notebook PC in-flight.

## Turning Airplane mode on/off

or

1. Launch **Action Center** from the taskbar.
2. Click/Tap the **Airplane mode** icon to enable or disable Airplane mode.

# Connecting to wired networks

You can also connect to wired networks, such as local area networks and broadband Internet connection, using your Notebook PC's LAN port.

**NOTE:** Contact your Internet Service Provider (ISP) for details or your network administrator for assistance in setting up your Internet connection.

# Turning your Notebook PC off

You can turn off your Notebook PC by doing either of the following procedures:

- Launch the Start menu, select the power icon then select **Shut down** to do a normal shutdown.
- From the log-in screen, select the power icon then select **Shut down**.

or

- Press alt + F4 to launch Shut Down Windows. Select **Shut down** from the drop-down list then select **OK**.
- If your Notebook PC is unresponsive, press and hold the power button for at least ten (10) seconds until your Notebook PC turns off.

# Putting your Notebook PC to sleep

To put your Notebook PC to Sleep mode:

- Launch the Start menu, select the power icon then select **Sleep** to put your Notebook PC to sleep.

or

- From the log-in screen, select the power icon then select **Sleep**.

Press alt + F4 to launch Shut Down Windows.

Select **Sleep** from the drop-down list then select **OK**.

**NOTE:** You can also put your Notebook PC to Sleep mode by pressing the power button once.

# Chapter 4:
# Power-On Self-Test (POST)

# The Power-On Self-Test (POST)

The POST (Power-On Self-Test) is a series of software-controlled diagnostic tests that run when you turn on or restart your Notebook PC. The software that controls the POST is installed as a permanent part of the Notebook PC's architecture.

## Using POST to access BIOS and Troubleshoot

During POST, you can access the BIOS settings or run troubleshooting options using the function keys of your Notebook PC. You may refer to the following information for more details.

# BIOS

The BIOS (Basic Input and Output System) stores system hardware settings that are needed for system startup in the Notebook PC.

The default BIOS settings apply to most conditions of your Notebook PC. Do not change the default BIOS settings except in the following circumstances:

- An error message appears onscreen during system bootup and requests you to run the BIOS Setup.
- You have installed a new system component that requires further BIOS settings or updates.

**WARNING!** Using inappropriate BIOS settings may result to system instability or boot failure. We strongly recommend that you change the BIOS settings only with the help of a trained service personnel.

## Accessing BIOS

Restart your Notebook PC then press F2 during POST.

# Recovering your system

Using recovery options on your Notebook PC allows you to restore the system to its original state or simply refresh its settings to help improve performance.

**IMPORTANT!**

- Backup all your data files before doing any recovery option on your Notebook PC.
- Note down important customized settings such as network settings, user names, and passwords to avoid data loss.
- Ensure that your Notebook PC is plugged in to a power source before resetting your system.

Windows allows you to do any of the following recovery options:

- **Keep my files** - This option allows you to refresh your Notebook PC without affecting personal files (photos, music, videos, documents).

  Using this option, you can restore your Notebook PC to its default settings and delete other installed apps.

- **Remove everything** - This option resets your Notebook PC to its factory settings. You must backup your data before doing this option.

- **Advanced startup** - Using this option allows you to perform other advanced recovery options on your Notebook PC such as:
  - Using a USB drive, network connection or Windows recovery DVD to startup your Notebook PC.
  - Using **Troubleshoot** to enable any of these advanced recovery options: Startup Repair, Uninstall Updates, Startup Settings, UEFI Firmware Settings, Command Prompt, System Restore, and System Image Recovery.

## Performing a recovery option

Refer to the following steps if you want to access and use any of the available recovery options for your Notebook PC.

1. Launch **Settings** > **Update and security**. (*for Windows 10*)

   Launch **Settings** > **System** > **Recovery**. (*for Windows 11*)

2. Select the recovery option you would like to perform.

# *Tips and FAQs*

# Useful tips for your Notebook PC

To help you maximize the use of your Notebook PC, maintain its system performance, and ensure all your data are kept secured, here are some useful tips that you can follow:

- Update Windows periodically to ensure that your applications have the latest security settings.
- Update MyASUS to ensure that you have the latest settings for ASUS exclusive applications, drivers, and utilities.
- Use an anti-virus software to protect your data and keep this updated too.
- Unless absolutely necessary, refrain from using force shutdown to turn off your Notebook PC.
- Always backup your data and make it a point to create a backup data in an external storage drive.
- If you are not using your Notebook PC for a long period of time, ensure to charge the battery power to 50% then power off your Notebook PC and disconnect the AC power adapter.
- If you are constantly using AC power for your Notebook PC, set the Battery Health Charging to Balanced mode in MyASUS.

- Disconnect all external devices and ensure you have the following items prior to resetting your Notebook PC:
  - Product key for your operating systems and other installed applications
  - Backup data
  - Log in ID and password
  - Internet connection information
- Visit our support site for troubleshooting and view some of the most frequently asked questions at https://www.asus.com/support.

# Hardware FAQs

1. **A black dot, or sometimes a colored dot, appears onscreen when I turn on the Notebook PC. What should I do?**

   Although these dots normally appear onscreen, they will not affect your system. If the incident continues and subsequently affects system performance, consult an authorized ASUS service center.

2. **My display panel has an uneven color and brightness. How can I fix this?**

   The color and brightness of your display panel may be affected by the angle and current position of your Notebook PC. The brightness and color tone of your Notebook PC may also vary per model. You may use the function keys or the display settings in your operating system to adjust the appearance of your display panel.

3. **How can I maximize my Notebook PC's battery life?**

   You can try doing any of the following suggestions:

   - Use the function keys to adjust the display brightness.
   - If you are not using any Wi-Fi connection, switch your system into **Airplane mode**.
   - Disconnect unused USB devices.
   - Close unused applications, especially those that take up too much system memory.

**4. My battery charge indicator does not light up. What's wrong?**

- Check whether the power adapter or battery pack is attached correctly. You may also disconnect the power adapter or battery pack, wait for a minute, then reconnect them again to the power outlet and Notebook PC.
- If the problem still exists, contact your local ASUS service center for assistance.

**5. Why is my touchpad not working?**

Press F6 to enable your touchpad.

**6. When I play audio and video files, why can't I hear any sound from my Notebook PC's audio speakers?**

You can try doing any of the following suggestions:

- Press F3 to turn up the speaker volume.
- Check if your speakers were set to mute.
- Check if a headphone jack is connected to your Notebook PC and remove it.

7. **What should I do if my Notebook PC's power adapter gets lost or my battery stops working?**

   Contact your local ASUS service center for assistance.

8. **My Notebook PC cannot do keystrokes correctly because my cursor keeps on moving. What should I do?**

   Make sure that nothing accidentally touches or presses on your touchpad while you type on the keyboard. You can also disable your touchpad by pressing F6 .

# Software FAQs

1. **When I turn on my Notebook PC, the power indicator lights up but nothing appears on my screen. What can I do to fix this?**

   You can try doing any of the following suggestions:

   - Force shutdown your Notebook PC by pressing the power button for at least ten (10) seconds. Check if the power adapter and battery pack are inserted correctly then turn on your Notebook PC.
   - If the problem still exists, contact your local ASUS service center for assistance.

2. **What should I do when my screen displays this message: "Remove disks or other media. Press any key to restart."?**

   You can try doing any of the following suggestions:

   - Remove all connected USB devices then restart your Notebook PC.
   - Remove any optical discs that are left inside the optical drive then restart.
   - If the problem still exists, your Notebook PC might have a memory storage problem. Contact your local ASUS service center for assistance.

3. **My Notebook PC boots slower than usual and my operating system lags. How can I fix this?**

   Delete the applications you recently installed or were not included with your operating system package then restart your system.

4. **My Notebook PC does not boot up. How can I fix this?**

   You can try doing any of the following suggestions:

   - Remove all connected devices to your Notebook PC then restart your system.
   - If the problem still exists, contact your local ASUS service center for assistance.

5. **Why can't my Notebook PC wake up from sleep mode?**

   - You need to press the power button to resume your last working state.
   - Your system might have completely used up its battery power. Connect the power adapter to your Notebook PC and connect to a power outlet then press the power button.

# Appendices

# Internal Modem Compliancy

The Notebook PC with internal modem model complies with JATE (Japan), FCC (US, Canada, Korea, Taiwan), and CTR21. The internal modem has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems you should contact your equipment supplier in the first instance.

# Overview

On 4th August 1998 the European Council Decision regarding the CTR 21 has been published in the Official Journal of the EC. The CTR 21 applies to all non voice terminal equipment with DTMF-dialling which is intended to be connected to the analogue PSTN (Public Switched Telephone Network).

CTR 21 (Common Technical Regulation) for the attachment requirements for connection to the analogue public switched telephone networks of terminal equipment (excluding terminal equipment supporting the voice telephony justified case service) in which network addressing, if provided, is by means of dual tone multi-frequency signalling.

## Network Compatibility Declaration

Statement to be made by the manufacturer to the Notified Body and the vendor: "This declaration will indicate the networks with which the equipment is designed to work and any notified networks with which the equipment may have inter-working difficulties."

Statement to be made by the manufacturer to the user: "This declaration will indicate the networks with which the equipment is designed to work and any notified networks with which the equipment may have inter-working difficulties. The manufacturer shall also associate a statement to make it clear where network compatibility is dependent on physical and software switch settings. It will also advise the user to contact the vendor if it is desired to use the equipment on another network."

Up to now the Notified Body of CETECOM issued several pan-European approvals using CTR 21. The results are Europe's first modems which do not require regulatory approvals in each individual European country.

## Non-Voice Equipment

Answering machines and loud-speaking telephones can be eligible as well as modems, fax machines, auto-dialers and alarm systems. Equipment in which the end-to-end quality of speech is controlled by regulations (e.g. handset telephones and in some countries also cordless telephones) is excluded.

## This table shows the countries currently under the CTR21 standard.

| Country | Applied | More Testing |
|---|---|---|
| Austria[1] | Yes | No |
| Belgium | Yes | No |
| Czech Republic | No | Not Applicable |
| Denmark[1] | Yes | Yes |
| Finland | Yes | No |
| France | Yes | No |
| Germany | Yes | No |
| Greece | Yes | No |
| Hungary | No | Not Applicable |
| Iceland | Yes | No |
| Ireland | Yes | No |
| Italy | Still Pending | Still Pending |
| Israel | No | No |
| Lichtenstein | Yes | No |
| Luxemburg | Yes | No |
| The Netherlands[1] | Yes | Yes |
| Norway | Yes | No |
| Poland | No | Not Applicable |
| Portugal | No | Not Applicable |
| Spain | No | Not Applicable |
| Sweden | Yes | No |
| Switzerland | Yes | No |
| United Kingdom | Yes | No |

This information was copied from CETECOM and is supplied without liability. For updates to this table, you may visit http://www.cetecom.de/technologies/ctr_21.html.

1 National requirements will apply only if the equipment may use pulse dialling (manufacturers may state in the user guide that the equipment is only intended to support DTMF signalling, which would make any additional testing superfluous).

In The Netherlands additional testing is required for series connection and caller ID facilities.

## Federal Communications Commission Interference Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING!** The use of a shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

(Reprinted from the Code of Federal Regulations #47, part 15.193, 1993. Washington DC: Office of the Federal Register, National Archives and Records Administration, U.S. Government Printing Office.)

This device operates within a 5.15-5.25 GHz frequency range and is restricted for indoor use only. Outdoor operation within 5150-5250 MHz is prohibited.

## FCC Radio Frequency (RF) Exposure Caution Statement

**WARNING!** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

# RF Exposure Information (SAR)

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels.

# Radiation Exposure Statement

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

# Déclaration relative à l'exposition aux radiations

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les États-Unis et le Canada établies pour un environnement non contrôlé.

Le produit est sûr pour une utilisation telle que décrite dans ce manuel. Le niveau d'exposition aux ondes radio peut être réduit en plaçant l'appareil aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.

## Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when operated in portable exposure conditions.

## Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par cet appareil sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industrie Canada (IC). Utilisez l'appareil sans fil de façon à minimiser les contacts humains lors d'un fonctionnement normal.

Cet appareil a été évalué et démontré conforme aux limites de DAS (Débit d'absorption spécifique) d'IC lorsqu'il est utilisé dans des conditions d'exposition à des appareils portables.

# Caution

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and

(iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

(iv) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

# Avertissement

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment:

(i) Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement à une utilisation en intérieur afin de réduire les risques d'interférence préjudiciables aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) Le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit être conforme à la limite de P.I.R.E; et

(iii) Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit être conforme à la limite de P.I.R.E spécifiée pour l'exploitation point à point et non point à point, selon le cas.

(iv) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient créer des interférences et/ou des dommages aux dispositifs LAN-EL.

# Compliance Statement of Innovation, Science and Economic Development Canada (ISED)

This device complies with *Innovation, Science and Economic Development Canada* license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

CAN ICES-003(B)/NMB-003(B)

# Déclaration de conformité de Innovation, Sciences et Développement économique Canada (ISED)

Le présent appareil est conforme aux CNR d'*Innovation, Sciences et Développement économique Canada* applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

La bande 5150-5250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

CAN ICES-003(B)/NMB-003(B)

# UL Safety Notices

Required for UL 1459 covering telecommunications (telephone) equipment intended to be electrically connected to a telecommunication network that has an operating voltage to ground that does not exceed 200V peak, 300V peak-to-peak, and 105V rms, and installed or used in accordance with the National Electrical Code (NFPA 70).

When using the Notebook PC modem, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- DO NOT use the Notebook PC near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- DO NOT use the Notebook PC during an electrical storm. There may be a remote risk of electric shock from lightning.
- DO NOT use the Notebook PC in the vicinity of a gas leak.

Required for UL 1642 covering primary (non-rechargeable) and secondary (rechargeable) lithium batteries for use as power sources in products. These batteries contain metallic lithium, or a lithium alloy, or a lithium ion, and may consist of a single electrochemical cell or two or more cells connected in series, parallel, or both, that convert chemical energy into electrical energy by an irreversible or reversible chemical reaction.

- DO NOT dispose the Notebook PC battery pack in a fire, as they may explode. Check with local codes for possible special disposal instructions to reduce the risk of injury to persons due to fire or explosion.
- DO NOT use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only UL certified power adapters or batteries supplied by the manufacturer or authorized retailers.

# Power Safety Requirement

Products with electrical current ratings up to 6A and weighing more than 3Kg must use approved power cords greater than or equal to: H05VV-F, 3G, 0.75mm$^2$ or H05VV-F, 2G, 0.75mm$^2$.

# TV Notices

Note to CATV System Installer—Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable – installation should include bonding the screen of the coaxial cable to the earth at the building entrance.

# Macrovision Corporation Product Notice

This product incorporates copyright protection technology that is protected by method claims of certain U.S.A. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only *unless otherwise authorized by Macrovision Corporation*. Reverse engineering or disassembly is prohibited.

# Prevention of Hearing Loss

To prevent possible hearing damage, do not listen at high volume levels for long periods.

# Nordic Lithium Cautions (for lithium-ion batteries)

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. (English)

ATTENZIONE! Rischio di esplosione della batteria se sostituita in modo errato. Sostituire la batteria con un una di tipo uguale o equivalente consigliata dalla fabbrica. Non disperdere le batterie nell'ambiente. (Italian)

VORSICHT! Explosionsgefahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers. (German)

ADVARSELI! Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren. (Danish)

VARNING! Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion. (Swedish)

VAROITUS! Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan sousittelemaan tyyppiin. Hävitä käytetty paristo valmistagan ohjeiden mukaisesti. (Finnish)

ATTENTION! Danger d'explosion si la batterie n'est pas correctement remplacée. Remplacer uniquement avec une batterie de type semblable ou équivalent, recommandée par le fabricant. Jeter les batteries usagées conformément aux instructions du fabricant. (French)

ADVARSEL! Eksplosjonsfare ved feilaktig skifte av batteri. Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner. (Norwegian)

標準品以外の使用は、危険の元になります。交換品を使用する場合、製造者に指定されるものを使って下さい。製造者の指示に従って処理して下さい。
(Japanese)

ВНИМАНИЕ! При замене аккумулятора на аккумулятор иного типа возможно его возгорание. Утилизируйте аккумулятор в соответствии с инструкциями производителя. (Russian)

# CTR 21 Approval (for Notebook PC with built-in Modem)

## Danish

»Udstyret er i henhold til Rådets beslutning 98/482/EF EU-godkendt til at blive opkoblet på de offentlige telefonnet som enkeltforbundet terminal. På grund af forskelle mellem de offentlige telefonnet i de forskellige lande giver godkendelsen dog ikke i sig selv ubetinget garanti for, at udstyret kan fungere korrekt på samtlige nettermineringspunkter på de offentlige telefonnet.

I tilfælde af problemer bør De i første omgang henvende Dem til leverandøren af udstyret.«

## Dutch

„Dit apparaat is goedgekeurd volgens Beschikking 98/482/EG van de Raad voor de pan-Europese aansluiting van enkelvoudige eindapparatuur op het openbare geschakelde telefoonnetwerk (PSTN). Gezien de verschillen tussen de individuele PSTN's in de verschillende landen, biedt deze goedkeuring op zichzelf geen onvoorwaardelijke garantie voor een succesvolle werking op elk PSTN-netwerkaansluitpunt.

Neem bij problemen in eerste instantie contact op met de leverancier van het apparaat.".

## English

'The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

In the event of problems, you should contact your equipment supplier in the first instance.'

## Finnish

"Tämä laite on hyväksytty neuvoston päätöksen 98/482/EY mukaisesti liitettäväksi yksittäisenä laitteena yleiseen kytkentäiseen puhelinverkkoon (PSTN) EU:n jäsenvaltioissa. Eri maiden yleisten kytkentäisten puhelinverkkojen välillä on kuitenkin eroja, joten hyväksyntä ei sellaisenaan takaa häiriötöntä toimintaa kaikkien yleisten kytkentäisten puhelinverkkojen liityntäpisteissä.

Ongelmien ilmetessä ottakaa viipymättä yhteyttä laitteen toimittajaan."

## French

«Cet équipement a reçu l'agrément, conformément à la décision 98/482/CE du Conseil, concernant la connexion paneuropéenne de terminal unique aux réseaux téléphoniques publics commutés (RTPC). Toutefois, comme il existe des différences d'un pays à l'autre entre les RTPC, l'agrément en soi ne constitue pas une garantie absolue de fonctionnement optimal à chaque point de terminaison du réseau RTPC.

En cas de problème, vous devez contacter en premier lieu votre fournisseur.»

## German

„Dieses Gerät wurde gemäß der Entscheidung 98/482/EG des Rates europaweit zur Anschaltung als einzelne Endeinrichtung an das öffentliche Fernsprechnetz zugelassen. Aufgrund der zwischen den öffentlichen Fernsprechnetzen verschiedener Staaten bestehenden Unterschiede stellt diese Zulassung an sich jedoch keine unbedingte Gewähr für einen erfolgreichen Betrieb des Geräts an jedem Netzabschlußpunkt dar.

Falls beim Betrieb Probleme auftreten, sollten Sie sich zunächst an ihren Fachhändler wenden."

## Greek

«Ο εξοπλισμός έχει εγκριθεί για πανευρωπαϊκή σύνδεση μεμονωμέου τερματικού με το δημόσιο τηλεφωνικό δίκτυο μεταγωγής (PSTN), σύμφωνα με την απόφαση 98/482/ΕΚ του Συμβουλίου· ωστόσο, επειδή υπάρχουν διαφορές μεταξύ των επιμέρους PSTN που παρέχονται σε διάφορες χώρες, η έγκριση δεν παρέχει αφ' εαυτής ανεπιφύλακτη εξασφάλιση επιτυχούς λειτουργίας σε κάθε σημείο απόληξης του δικτύου PSTN.

Εάν ανακύψουν προβλήματα, θα πρέπει κατ' αρχάς να απευθύνεστε στον προμηθευτή του εξοπλισμού σας.»

## Italian

«La presente apparecchiatura terminale è stata approvata in conformità della decisione 98/482/CE del Consiglio per la connessione paneuropea come terminale singolo ad una rete analogica PSTN. A causa delle differenze tra le reti dei differenti paesi, l'approvazione non garantisce però di per sé il funzionamento corretto in tutti i punti di terminazione di rete PSTN.

In caso di problemi contattare in primo luogo il fornitore del prodotto.»

## Portuguese

«Este equipamento foi aprovado para ligação pan-europeia de um único terminal à rede telefónica pública comutada (RTPC) nos termos da Decisão 98/482/CE. No entanto, devido às diferenças existentes entre as RTPC dos diversos países, a aprovação não garante incondicionalmente, por si só, um funcionamento correcto em todos os pontos terminais da rede da RTPC.

Em caso de problemas, deve entrar-se em contacto, em primeiro lugar, com o fornecedor do equipamento.»

## Spanish

«Este equipo ha sido homologado de conformidad con la Decisión 98/482/CE del Consejo para la conexión paneuropea de un terminal simple a la red telefónica pública conmutada (RTPC). No obstante, a la vista de las diferencias que existen entre las RTPC que se ofrecen en diferentes países, la homologación no constituye por sí sola una garantía incondicional de funcionamiento satisfactorio en todos los puntos de terminación de la red de una RTPC.

En caso de surgir algún problema, procede ponerse en contacto en primer lugar con el proveedor del equipo.».

## Swedish

"Utrustningen har godkänts i enlighet med rådets beslut 98/482/EG för alleuropeisk anslutning som enskild terminal till det allmänt tillgängliga kopplade telenätet (PSTN). På grund av de skillnader som finns mellan telenätet i olika länder utgör godkännandet emellertid inte i sig självt en absolut garanti för att utrustningen kommer att fungera tillfredsställande vid varje telenätsanslutningspunkt.

Om problem uppstår bör ni i första hand kontakta leverantören av utrustningen."

# Declaration of Compliance for Product Environmental Regulation

ASUS follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASUS product is in line with global environmental regulations. In addition, ASUS disclose the relevant information based on regulation requirements.

Please refer to http://csr.asus.com/Compliance.htm for information disclosure based on regulation requirements ASUS is complied with.

# EU REACH and Article 33

Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we publish the chemical substances in our products at ASUS REACH website at http://csr.asus.com/english/REACH.htm.

# EU RoHS

This product complies with the EU RoHS Directive. For more details, see http://csr.asus.com/english/article.aspx?id=35.

# Japan JIS-C-0950 Material Declarations

Information on Japan RoHS (JIS-C-0950) chemical disclosures is available on http://csr.asus.com/english/article.aspx?id=19.

# India RoHS

This product complies with the "India E-Waste (Management) Rules, 2016" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in concentrations exceeding 0.1% by weight in homogenous materials and 0.01% by weight in homogenous materials for cadmium, except for the exemptions listed in Schedule II of the Rule.

## Vietnam RoHS

ASUS products sold in Vietnam, on or after September 23, 2011, meet the requirements of the Vietnam Circular 30/2011/TT-BCT.

Các sản phẩm ASUS bán tại Việt Nam, vào ngày 23 tháng 9 năm2011 trở về sau, đều phải đáp ứng các yêu cầu của Thông tư 30/2011/TT-BCT của Việt Nam.

## ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials.

Please go to http://csr.asus.com/english/Takeback.htm for detailed recycling information in different regions.

## Rechargeable Battery Recycling Service in North America

For US and Canada customers, you can call 1-800-822-8837 (toll-free) for recycling information of your ASUS products' rechargeable batteries.

## Ecodesign Directive

European Union announced a framework for the setting of ecodesign requirements for energy-related products (2009/125/EC). Specific Implementing Measures are aimed at improving environmental performance of specific products or across multiple product types. ASUS provides product information on the CSR website. Further information could be found at https://csr.asus.com/english/article.aspx?id=1555.

# ENERGY STAR Qualified Product

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

All ASUS products with the ENERGY STAR logo comply with the ENERGY STAR standard, and the power management feature is enabled by default. The monitor is automatically set to sleep within 10 minutes of user inactivity; the computer is automatically set to sleep within 30 minutes of user inactivity. To wake your computer, click the mouse, press any key on the keyboard, or press the power button.

Please visit http://www.energystar.gov/powermanagement for detail information on power management and its benefits to the environment. In addition, please visit http://www.energystar.gov for detail information on the ENERGY STAR joint program.

**NOTE:** Energy Star is NOT supported on FreeDOS and Linux-based operating systems.

# EPEAT Registered Products

The public disclosure of key environmental information for ASUS EPEAT (Electronic Product Environmental Assessment Tool) registered products is available at https://csr.asus.com/english/article.aspx?id=41. More information about EPEAT program and purchase guidance can be found at www.epeat.net.

# Coating Notice

**IMPORTANT!** To provide electrical insulation and maintain electrical safety, a coating is applied to insulate the device except on the areas where the I/O ports are located.

# Regional notice for Singapore

| |
|---|
| Complies with IMDA Standards DB103778 |

This ASUS product complies with IMDA Standards.

# Notices for removable batteries

- Risk of explosion if battery is replaced by an incorrect type.
- The battery and its component must be recycled or disposed of properly.

# Avis concernant les batteries remplaçables

- La batterie de l'appareil peut présenter un risque d'incendie ou de brûlure si celle-ci est retirée ou désassemblée.
- La batterie et ses composants doivent être recyclés de façon appropriée.

# Wi-Fi Network Notice

**IMPORTANT!** Wi-Fi 6E network card is available on selected models. The connectivity of Wi-Fi 6E band may vary according to the regulation and certification of each country/region.

## Simplified EU Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Full text of EU declaration of conformity is available at https://www.asus.com/support/.

The WiFi operating in the band 5150-5350 MHz shall be restricted to indoor use for countries listed in the table below:

| | | | | | | |
|---|---|---|---|---|---|---|
| AT | BE | BG | CZ | DK | EE | FR |
| DE | IS | IE | IT | EL | ES | CY |
| LV | LI | LT | LU | HU | MT | NL |
| NO | PL | PT | RO | SI | SK | TR |
| FI | SE | CH | HR | UK(NI) | | |

CE

## Simplified UKCA Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of The Radio Equipment Regulations 2017 (S.I. 2017/1206). Full text of UKCA declaration of conformity is available at https://www.asus.com/support/.

The WiFi operating in the band 5150-5350 MHz shall be restricted to indoor use for the country listed below:

UK

# RF Exposure information (SAR)

This device meets the EU requirements (2014/53/EU) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The limits are part of extensive recommendations for the protection of the general public. These recommendations have been developed and checked by independent scientific organizations through regular and thorough evaluations of scientific studies. The unit of measurement for the European Council's recommended limit for mobile devices is the "Specific Absorption Rate" (SAR), and the SAR limit is 2.0 W/Kg averaged over 10 gram of body tissue. It meets the requirements of the International Commission on Non-Ionizing Radiation Protection (ICNIRP).

For next-to-body operation, this device has been tested and meets the ICNIRP exposure guidelines and the European Standard EN 50566 and EN 62209-2. SAR is measured with the device directly contacted to the body while transmitting at the highest certified output power level in all frequency bands of the mobile device.

A minimum separation distance of 1 cm must be maintained between the user's body and the device, including the antenna during body-worn operation to comply with the RF exposure requirements in Europe.