



# G SERIES

GAMING NOTEBOOK PC

MORE INFO:



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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/>.

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# 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.



= 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 level at which the battery resumes charging is usually set between 90% and 99%. The actual value may vary by model.

---

- 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.

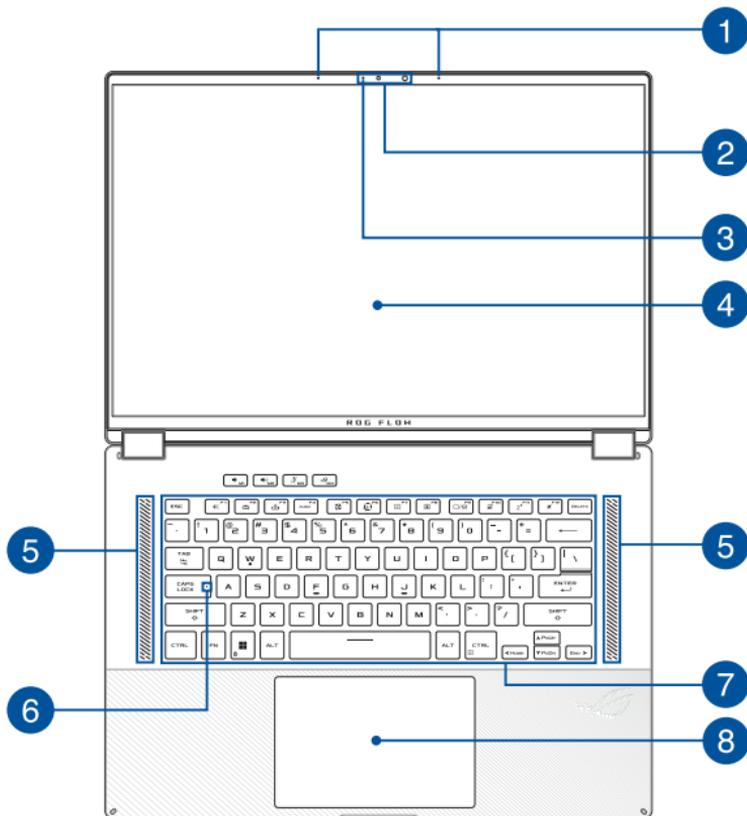


# ***Chapter 1:*** ***Hardware Setup***

# Getting to know your Notebook PC

## Front 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.



## 1 Array microphones

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

## 2 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.

---

## 3 Camera indicator

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

#### 4 **360°-adjustable touch screen panel**

Your Notebook PC's touch screen panel can be adjusted all the way into a 360° 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.

---

#### 5 **Audio speakers**

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

#### 6 **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.

## 7 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.

---

## 8 Touchpad

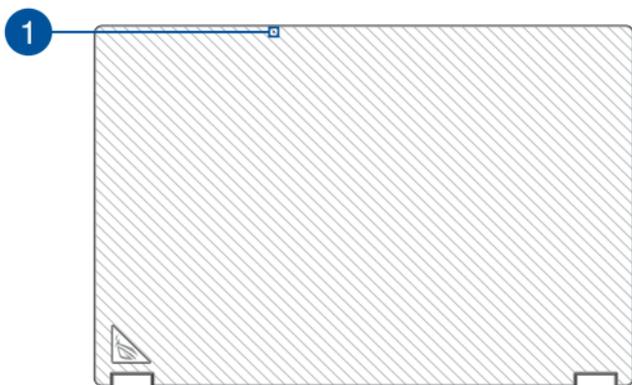
The touchpad allows the use of multi-gestures to navigate onscreen, providing an intuitive user experience. It also simulates the functions of a regular mouse.

---

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

---

## Top View



1

### Microphone

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

## Bottom View

---

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

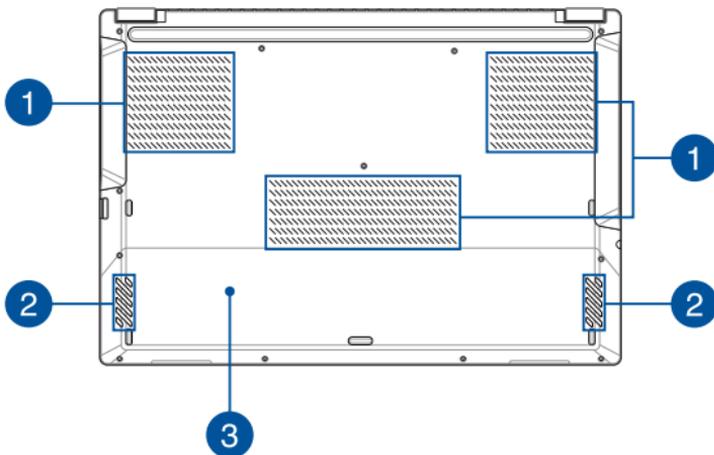
---

**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 Bottom cover

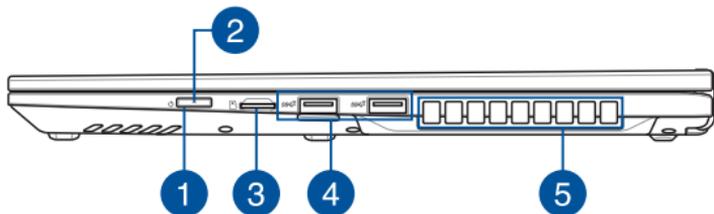
This cover protects the reserved spaces in your Notebook PC for the removable SSD (M.2 2280 slot) and RAM (Random Access Memory) modules.

---

**NOTE:**

- For more details, refer to the Service Manual on our multi-language website at <https://www.asus.com/support/>.
  - The M.2 2280 slot does not support M.2 SATA SSD.
-

## Right View



1

### 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.

2

### 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.

3

### MicroSD card slot

This built-in memory card reader slot supports microSD card formats.

4

### USB 3.2 Gen 2 port

The USB 3.2 (Universal Serial Bus 3.2) Gen 2 port provides a transfer rate of up to 10 Gbit/s and is backward compatible to USB 2.0.

5

### Air vents

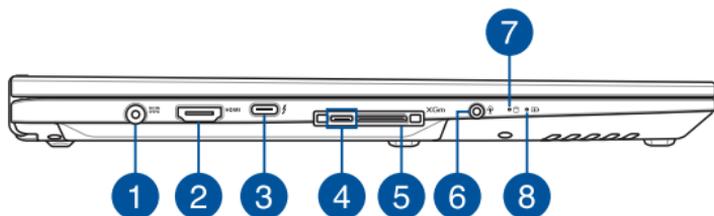
The air vents allow cool air to enter and warm air to exit the Notebook PC.

---

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

---

## Left View



### 1 Power (DC) input port

Insert the bundled power adapter into this port to charge the battery pack and supply power to your Notebook PC.

---

**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!** Use only the bundled power adapter to charge the battery pack and supply power to your Notebook PC.

---

### 2 HDMI output port

This port allows you to send audio and video signals from your Notebook PC to an HDMI-compatible device using an HDMI cable.

## 3

### Thunderbolt™ 4 port with Power Delivery

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. Insert the bundled power adapter into this port to charge the battery pack and supply power to your Notebook PC.

---

**NOTE:**

- Transfer rate of this port may vary per model.
  - The USB Power Delivery power adapter is bundled with selected models only.
- 

---

**IMPORTANT!** It may take longer to fully charge your Notebook PC through a low-voltage power source.

---

## 4

**USB 3.2 Gen 2 Type-C®/DisplayPort/  
Power (DC) input 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. Use a USB Type-C® adapter to connect your Notebook PC to an external display. Insert the bundled power adapter into this port 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. Use only the bundled power adapter to charge the battery pack and supply power to your Notebook PC.

---

5

#### **ROG XG Mobile interface**

This port is for plugging in the ROG XG Mobile connector for external graphics.

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

#### **Drive activity indicator**

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

## 8

**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:

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



## ***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.

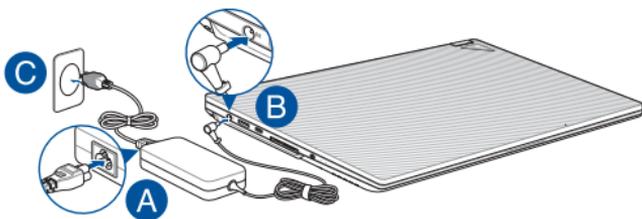


Charge the Notebook PC for **3 hours** before using it in battery mode for the first time.

---

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

---



---

**IMPORTANT!**

AC/DC power adapter information:

- Input voltage: 100-240Vac
- Input frequency: 50-60Hz
- Rating output current: 12A (240W) / 14A (280W)
- Rating output voltage: 20V (240W) / 20V (280W)

ROG XG Mobile power adapter\* information:

- Input voltage: 100-240Vac
- Input frequency: 50-60Hz
- Rating output current: 5A (100W)
- Rating output voltage: 20V

\* *On selected models*

---

---

**IMPORTANT!**

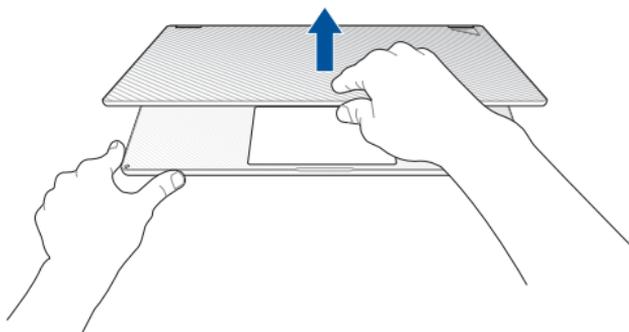
- Locate the input/output rating label on your Notebook PC and ensure that it matches the input/output rating information on your power adapter. Some Notebook PC models may have multiple rating output currents based on the available SKU.
  - Ensure that your Notebook PC is connected to the power adapter 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

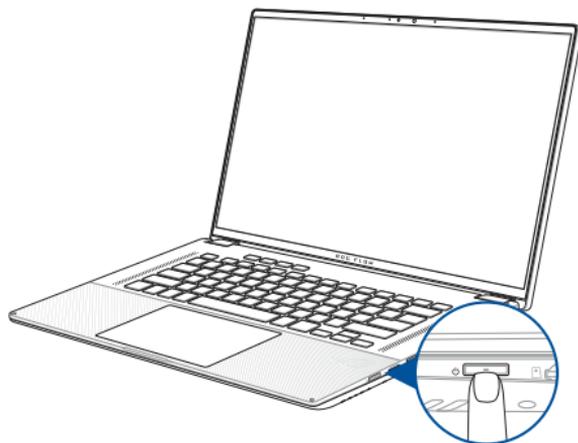


---

**NOTE:** For better heat dissipation, we recommend that you open the display panel to at least 60 degrees while in use.

---

## 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



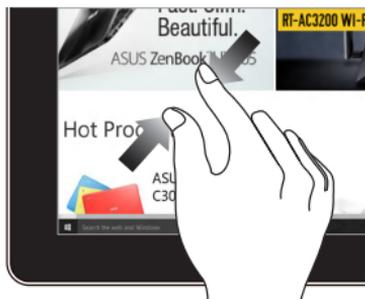
Press and hold to open the right-click menu.

## Zoom in



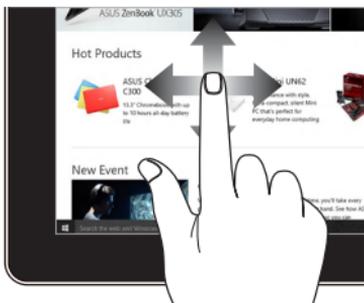
Spread apart your two fingers on the touch screen panel.

## Zoom out



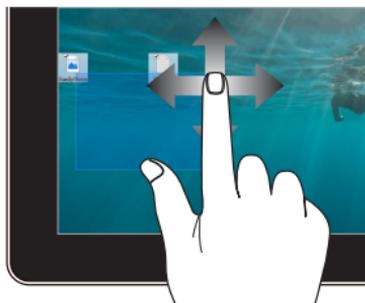
Bring together your two fingers on the touch screen panel.

## Finger slide



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

## Drag



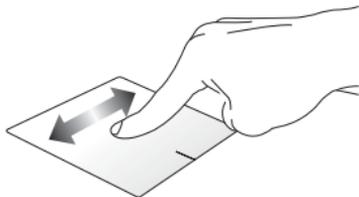
- Drag to create a selection box around multiple items.
- Drag and drop an item to move it to a new location.

## Using the touchpad

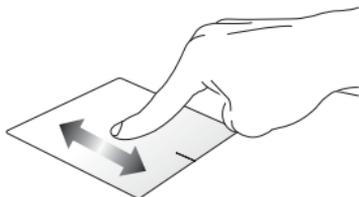
### Moving the pointer

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

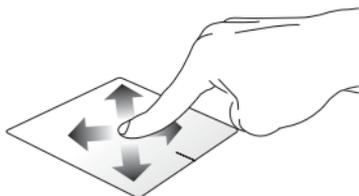
#### Slide horizontally



#### Slide vertically

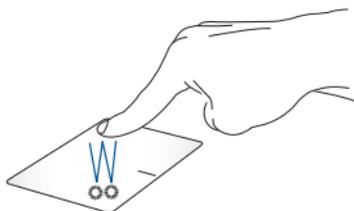


#### Slide diagonally



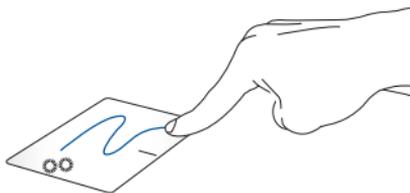
## One-finger gestures

### Tap/Double-tap



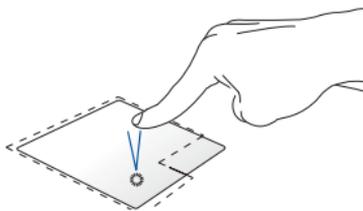
- Tap an app to select it.
- Double-tap an app to launch it.

### Drag and drop

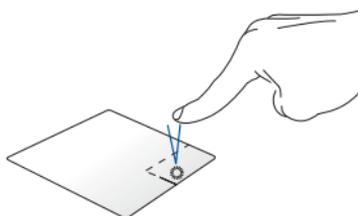


Double-tap an item, then slide the same finger without lifting it off the touchpad. To drop the item to its new location, lift your finger from the touchpad.

## Left-click



## Right-click



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

Click this button to open the right-click menu.

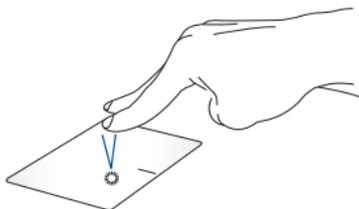
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**NOTE:** The areas inside the dotted line represent the locations of the left mouse button and the right mouse button on the touchpad.

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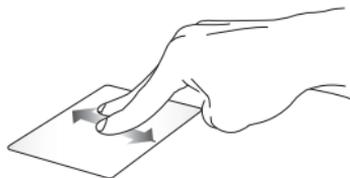
## Two-finger gestures

### 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)



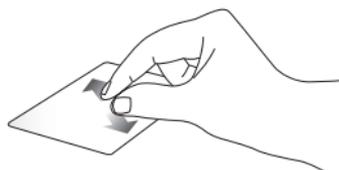
Slide two fingers to scroll left or right.

### Zoom out



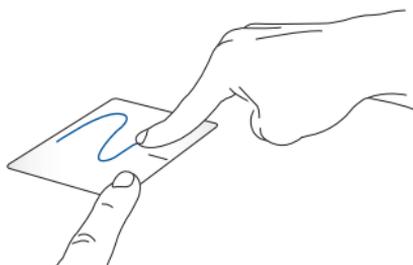
Bring together your two fingers on the touchpad.

### Zoom in



Spread apart your two fingers on the touchpad.

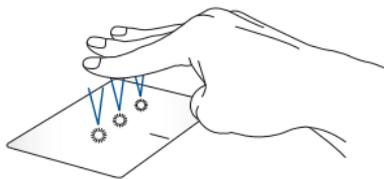
## Drag and drop



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



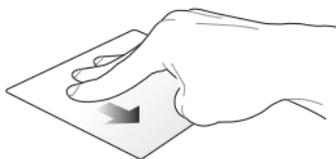
If you opened multiple apps, swipe three fingers left or right to switch between these apps.

## Swipe up



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

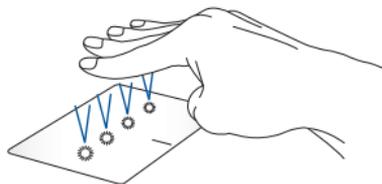
## Swipe down



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 keyboard

## Function keys

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



Turns the speaker on or off



Decreases brightness for the backlit keyboard



Increases brightness for the backlit keyboard



Toggles the Aura lighting effect



Toggles the fan mode



Activates screen capture tool



Decreases display brightness



Increases display brightness



Toggles the display mode

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

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Enables or disables the touchpad



Puts the Notebook PC into **Sleep mode**



Turns **Airplane mode** on or off

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**NOTE:** When enabled, the **Airplane mode** disables all wireless connectivity.

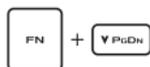
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Displays the drop-down menu



Simulates the page up key



Simulates the page down key



Simulates the home key



Simulates the end key



Enables or disables the Windows key lock

## Hot Keys

Each programmable Hot Key can play the recorded macro or the assigned function. You may program your Hot Keys via the Armoury Crate app, or press the Hot Key to trigger the following default commands:



Turns the speaker volume down



Turns the speaker volume up



Turns the microphone on or off



Opens the Armoury Crate application

## Windows keys

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



Launches the Start menu



or



+



Displays the drop-down menu

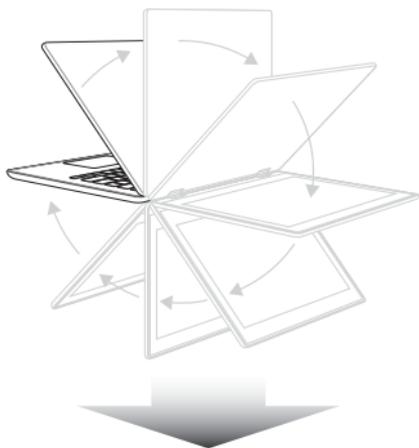
## Rotating the display panel

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

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

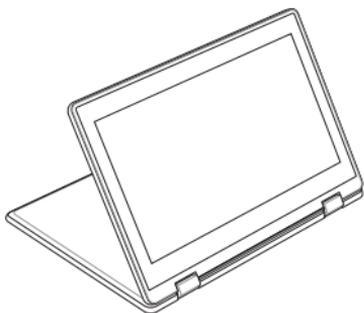
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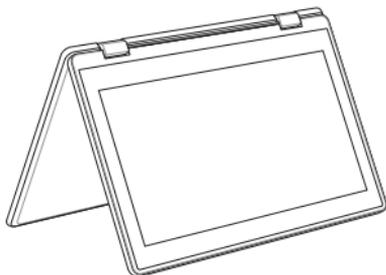
360 degrees adjustable



Notebook PC mode



Stand mode



Tent mode



Tablet mode

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

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