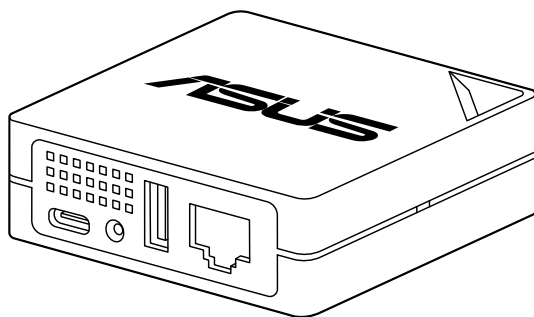


User Guide

RT-AX50 Go

Dual Band WiFi 6 Travel Router



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ACCESSIBILITY STATEMENT

ASUS is committed to making our documentation accessible, in accordance with Directive (EU) 2019/882 of the European Parliament and of the Council. This document is designed to meet requirements for WCAG 2.1 (level AA)/EN 301 549 and be accessible to screen readers such as NVDA Screen Reader or Microsoft Narrator.

For more product information, please refer to the product webpage:

https://qr.asus.com/networking/rt-ax50_go



Service and Support

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



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1 Getting to know your wireless router

1.1 Welcome!

Thank you for purchasing an ASUS RT-AX50 Go Travel Router!

Designed with a sleek white chassis, RT-AX50 Go is an ideal travel companion for users who need reliable and secure internet access on the go. Featuring dual-band 2.4GHz and 5GHz wireless connectivity, it provides fast and stable connections for HD streaming, video calls, and web browsing wherever your travels take you.

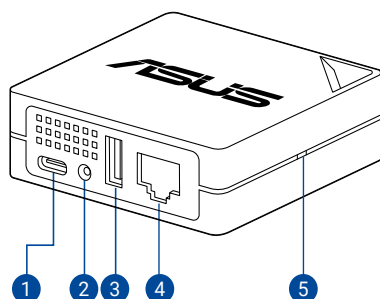
1.2 Package contents

- RT-AX50 Go Travel Router
- Quick Start Guide
- Warranty card

NOTES:

- If any of the items are damaged or missing, contact ASUS for technical inquiries and support. Refer to **Service and Support** in this user manual.
 - Keep the original packaging material in case you would need future warranty services such as repair or replacement.
-

1.3 Your wireless router



1. Power (DCIN) port (5V/9V/2V, PD/QC)

Insert a USB-C® adapter into this port and connect your router to a power source.

NOTE: The USB-C® adapter is not included in the box.

2. Reset button

This button resets or restores the system to its factory default settings.

3. USB tethering port

Connect a USB cable into this port to share the internet connection of a mobile device.

4. WAN/LAN port

Connect a network cable into this port to establish WAN/LAN connection.

5. Power LED

Solid blue (Standby): Ready for setup.

Solid white: Connected to Internet (Router mode) or Parent WiFi (WISP mode)

Solid red: Disconnected from Internet (Router mode)

Blinking green: Starting up

Blinking blue: Connecting to a Parent WiFi

Blinking yellow: Resetting to factory defaults

NOTE: You can check the router's working status in the router app.

Specifications:

DC Power input: USB-C® PD Type: +5V/3A, +9V/1.67A,
+12V/1.25A

Operating Temperature: 0 to 40 °C

Storage Temperature: 0 to 70 °C

Operating Humidity: 50 to 90%

Storage Humidity: 20 to 90%

1.4 Setup Requirements

To set up your wireless network, you need a computer that meets the following system requirements:

- IEEE 802.11a/b/g/n/ac/ax wireless capability
- An installed TCP/IP service
- Web browser such as Microsoft Edge, Firefox, Safari, or Google Chrome

NOTES:

- If your computer does not have built-in wireless capabilities, you may install an IEEE 802.11a/b/g/n/ac/ax WLAN adapter to your computer to connect to the network.
- With its dual band technology, your wireless router supports 2.4GHz and 5GHz wireless signals simultaneously. This allows you to do Internet-related activities such as Internet surfing or reading/writing e-mail messages using the 2.4GHz band while simultaneously streaming high-definition audio/video files such as movies or music using the 5GHz band.
- Some IEEE 802.11n devices that you want to connect to your network may or may not support 5GHz band. Refer to the device's manual for specifications.

IMPORTANT!

- Some wireless adapters might have connectivity issues to 802.11ax WiFi APs.
- If you're experiencing such issue, please ensure you update the driver to the latest version. Check your manufacturer's official support site where software drivers, updates, and other related information can be obtained.

Realtek: <https://www.realtek.com>

Mediatek: <https://www.mediatek.com>

Intel: <https://www.intel.com/>

2 Getting started

2.1 Router Setup

IMPORTANT! Use a charger or power bank that supports the standard PD protocol.



WARNING!

- Do NOT use damaged power cords, accessories, or other peripherals.
 - Do NOT mount this equipment higher than 2 meters.
 - Use this product in environments with ambient temperatures between 0°C (32°F) and 40°C (104°F).
-

A. Setting up via app

To set up your wireless router via app:

1. On your iOS or Android mobile device, go to the app store, search for **ASUS Router**, and download the app.



2. Launch the **ASUS Router** app and follow the instructions to complete the setup.

NOTES:

- To ensure proper functionality during the app setup, please grant all required permissions.
 - The app only provides guidance for web-based settings and does not have app management capabilities.
-

B. Setting up via web browser

To set up your wireless router via web browser:

1. Open a web browser on your mobile device. You will be redirected to the ASUS Setup Wizard. If not, navigate to <http://www.asusrouter.com>.



2. Follow the instructions to complete the setup.

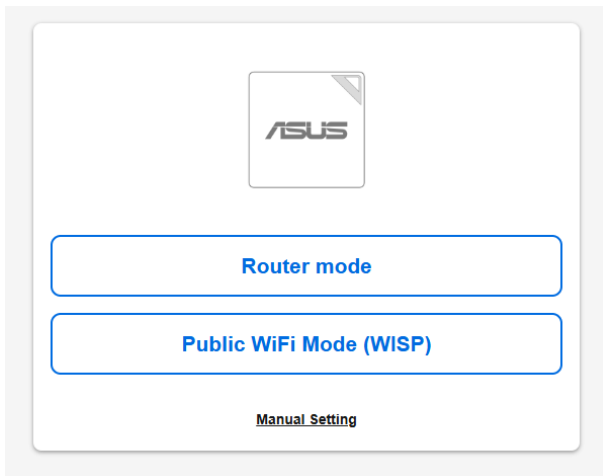
2.2 Operation Mode

RT-AX50 Go offers multiple operation modes, allowing you to choose the most suitable network connection method based on your home or outdoor environment.

The following sections introduce the three main operation modes: Router mode, Public WiFi Mode (WISP), and Access Point (AP) mode.

These modes are designed to address different networking scenarios, whether you are connecting via home broadband, public WiFi, or extending an existing network.

For each mode, you will find connection checklists and switching instructions to help you complete initial setup and ongoing management with ease.



Manual Setting

When you select **Manual Setting** on the initial setup screen, you will be redirected to a page where you can choose one of the three operation modes for your RT-AX50 Go.

Setup



Choose operation mode

Router mode



Public WiFi Mode (WISP)



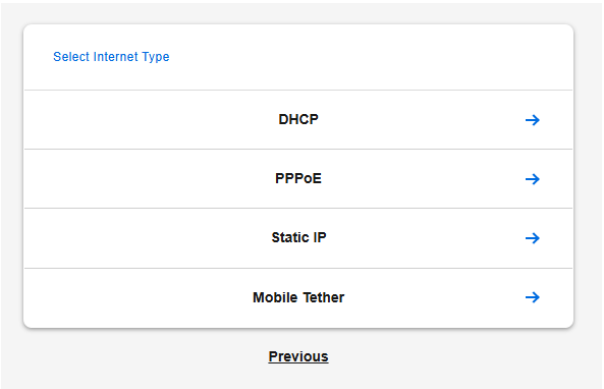
Access Point(AP) mode



2.2.1 Router mode

In Router mode, you can configure how your RT-AX50 Go connects to the internet. The available connection types are: **DHCP**, **PPPoE**, **Static IP** and **Mobile Tether**.

Each option allows you to enter further settings and complete the configuration. Click **Previous** at the bottom to return to the previous screen if needed.



2.2.1.1 DHCP

When you select **DHCP**, RT-AX50 Go will automatically detect and configure your internet connection. No additional setup is required. The router will obtain the necessary IP address and network settings from your Internet Service Provider (ISP), allowing you to quickly get online with minimal effort.

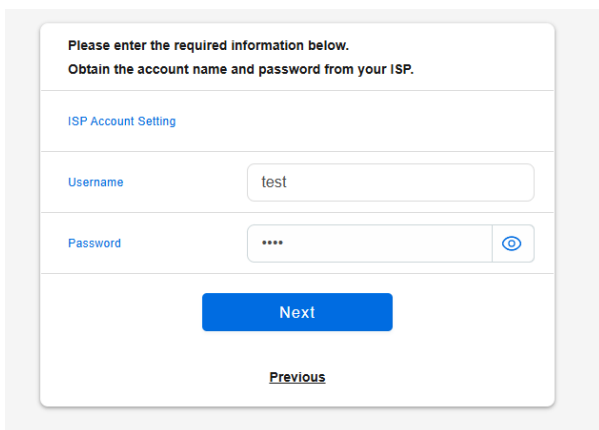
This option is recommended for most users, especially when connecting to standard home, office, or hotel networks.

2.2.1.2 PPPoE

When you choose **PPPoE**, you will be prompted to enter the username and password provided by your ISP.

NOTE: If you are unsure about your username or password, contact your ISP for assistance.

When done, click **Next**.



The screenshot shows a web form titled "Please enter the required information below. Obtain the account name and password from your ISP." The form is labeled "ISP Account Setting". It contains two input fields: "Username" with the text "test" and "Password" with masked characters "****". There is a toggle icon for the password field. Below the fields is a blue "Next" button and a "Previous" link.

This option is commonly used for DSL or fiber broadband connections that require authentication.

2.2.1.3 Static IP

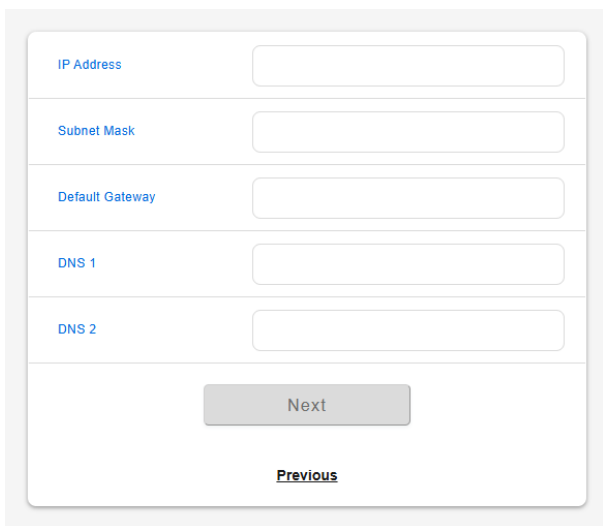
When you select **Static IP**, you will be redirected to a page where you can manually enter your network settings.

Please enter the following information as provided by your ISP.

- IP address
- Subnet mask
- Default gateway
- DNS 1 & DNS 2

NOTE: If you are unsure about any of the information, contact your ISP for assistance.

When done, click **Next**.



A screenshot of a network configuration interface. It features five input fields stacked vertically, each with a label to its left: 'IP Address', 'Subnet Mask', 'Default Gateway', 'DNS 1', and 'DNS 2'. Below these fields is a large, light gray button labeled 'Next'. At the bottom of the form is a smaller, underlined link labeled 'Previous'.

This option is commonly used for advanced users or specific network environments that require a fixed IP configuration.

2.2.1.4 Mobile Tether

This option allows you to connect to the internet using a mobile device's data connection via USB tethering.

2.2.2 Public WiFi Mode (WISP)

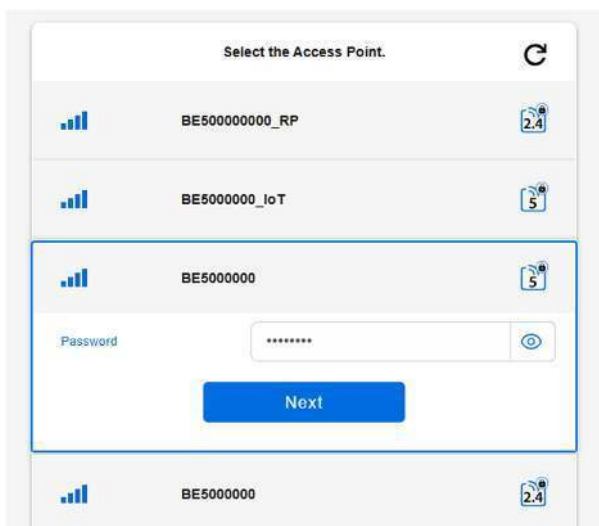
When you select **Public WiFi Mode (WISP)**, RT-AX50 Go will search for available wireless networks (SSIDs) nearby. A list of detected WiFi networks will be displayed, along with signal strength indicators and frequency bands (2.4 GHz or 5 GHz).

- **Automatic Wi-Fi connection**

a) Select the SSID you wish to connect to, and enter the required WiFi password in the provided field.

b) Click **Next**.

NOTE: You can click  to rescan available networks if needed.



Select the Access Point. 

	BE500000000_RP	
	BE50000000_IoT	
	BE50000000	
Password *****  Next		
	BE50000000	

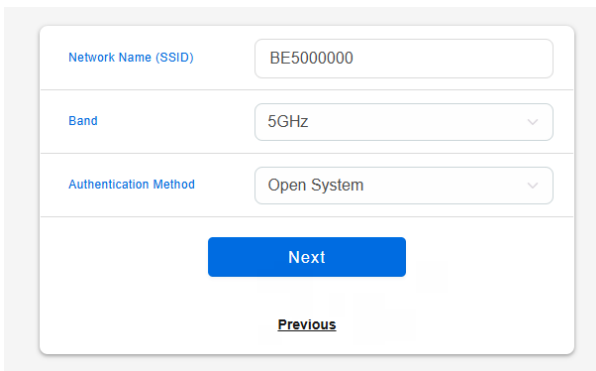
This mode enables you to securely share public WiFi connections with your devices, making it ideal for use in hotels, airports, or other public spaces.

- **Manual Wi-Fi connection**

If the desired WiFi network does not appear in the SSID list, you can manually connect to Wi-Fi by entering the following information:

- Network Name (SSID)
- Band
- Authentication Method

When done, click **Next**.

A screenshot of a manual Wi-Fi connection form. The form is white with a light gray border. It contains three input fields: 'Network Name (SSID)' with the value 'BE5000000', 'Band' with a dropdown menu showing '5GHz', and 'Authentication Method' with a dropdown menu showing 'Open System'. Below these fields is a large blue button labeled 'Next'. At the bottom of the form is a link labeled 'Previous'.

This mode allows you to connect to hidden or non-broadcasting networks that may not be detected automatically.

2.3 Wi-Fi SSID and Security Setup

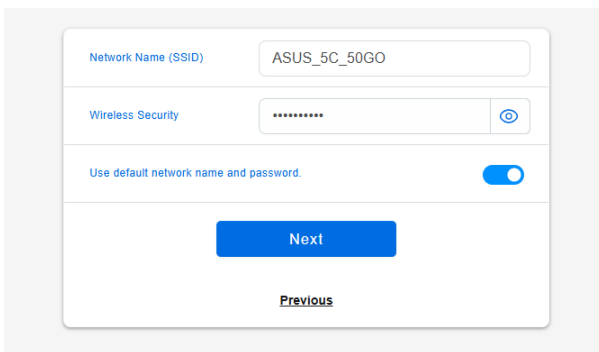
After selecting the operating mode and completing the internet connection setup, you will be guided to configure your RT-AX50 Go's wireless network name (SSID) and security settings, which ensures your wireless network is identifiable and secure according to your preferences.

To set up Wi-Fi SSID and Security:

1. Enter the following information:
 - **Network Name (SSID):** Assign a unique name for your WiFi network, or use the default provided by the system.
 - **Wireless Security:** Set a password to protect your WiFi network. The password will be hidden by default, and you can click the eye icon to reveal or hide it.

NOTE: You can use the default SSID and password settings by enabling **Use default network name and password**, which allows you to skip manual adjustments and proceed quickly.

2. When done, click **Next**.



The screenshot shows a configuration window for Wi-Fi settings. It has three input fields: 'Network Name (SSID)' with the value 'ASUS_5C_50GO', 'Wireless Security' with a masked password '*****' and an eye icon, and a toggle switch for 'Use default network name and password' which is currently turned on. At the bottom, there is a blue 'Next' button and a 'Previous' link.

2.4 Administrator Account Setup

To enhance the security of your RT-AX50 Go, you will be prompted to set up an administrator login name and password, which ensures that only authorized users can manage the router settings.

To set up the administrator account:

1. Enter the following information:
 - **Router Login Name:** assign a unique administrator username.
 - **Router Login Password:** Create a strong password that meets the following requirements:
 - Password length must be between 10 and 32 characters
 - Must include at least one letter
 - Must include at least one special symbol (!@#\$\$%^&?)
 - Must include at least one number
 - No consecutive identical characters
 - Login name and password shall not be the same
 - **Retype Password:** Enter your password again to confirm.

NOTE: You can also use the default administrator name and password by enabling **Use default login name and password for this router**, however, this is not recommended for optimal security.

2. When done, click **Next**.

Router Login Name

Router Login Password

Retype Password

✓ Must be between 10-32 characters

✓ At least one letter (a-z, A-Z)

✓ At least one special character (!@#\$\$%^&?)

✓ At least one number (0-9)

✓ Shall not have consecutive identical characters

✓ Login username and password shall not be the same

Use default login name and password for this router.

Next

[Previous](#)

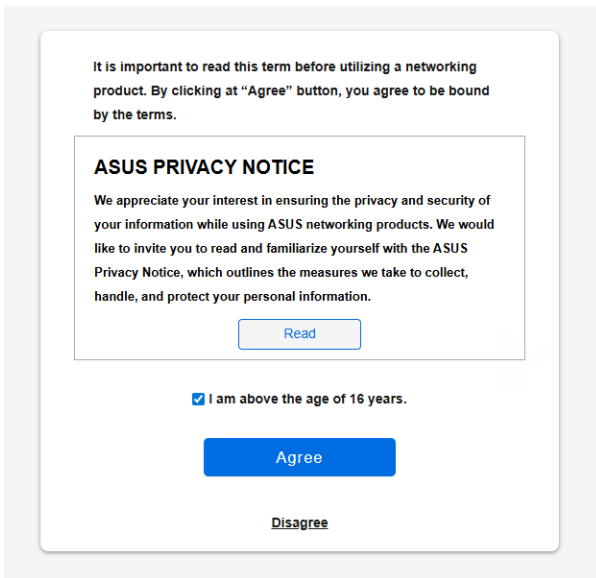
2.5 Privacy Notice and Final Setup

Before completing the setup, you will be presented with the ASUS Privacy Notice. Please read the privacy policy to understand how your personal information is collected, processed, and protected.

To complete the final setup:

1. If you are above the age of 16, check the **I am above the age of 16 years** box.
2. Click **Agree** to accept the privacy terms and proceed.

NOTE: If you do not agree, select **Disagree** to exit.

A screenshot of the ASUS Privacy Notice screen. At the top, it says "It is important to read this term before utilizing a networking product. By clicking at 'Agree' button, you agree to be bound by the terms." Below this is a box titled "ASUS PRIVACY NOTICE" containing text about privacy and security. There is a "Read" button below the text. Below the box is a checkbox labeled "I am above the age of 16 years." which is checked. At the bottom are two buttons: "Agree" (blue) and "Disagree" (black text).

3. Wait for the router to complete configuration. It may restart automatically.

When the setup is complete, the LED indicator will turn solid white. Your RT-AX50 Go Travel Router is ready for use.

3 Backup WAN

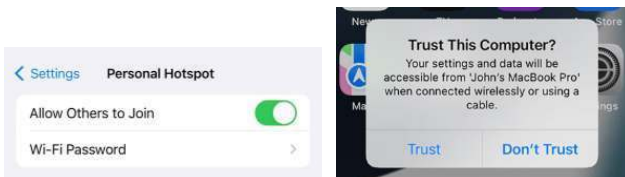
Tether mode works under Router mode and WISP mode.

NOTE: If the USB tether does not work properly, change a USB cable and try again.

- Using tether mode on Android phones
 - a) Connect your mobile phone to the router's USB port.
 - b) Go to the phone's network settings page.
 - c) Turn on **USB tethering**.



- Using tether mode on iPhones
 - a) On your iPhone, go to **Settings > Cellular > Personal Hotspot > Allow Others to Join**.
 - b) Connect your mobile phone to the router's USB port.
 - c) Tap **Trust** if the **Trust This Computer** prompt appears.



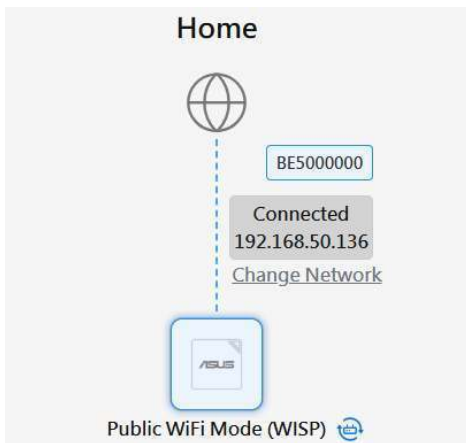
4 Management Interface

To access the management interface of RT-AX50 Go after completing the setup:

1. Reconnect your device to the SSID you have just configured.
2. On your web browser, enter www.asusrouter.com or 192.168.72.1 in the address bar.
3. When prompted, enter the administrator username and password you created during setup.



You will then be able to access RT-AX50 Go router's management interface, where you can further adjust settings, monitor your network, and manage connected devices.



5 Firmware Upgrade

To keep your ASUS RT-AX50 Go operating securely and efficiently, it is recommended to check for firmware updates regularly.

To upgrade the firmware:

1. Log into the router's management interface.
2. Select **More Config** from the main menu and click on **Firmware Upgrade**.
3. Click **Check Update** to verify if the latest firmware is available.



If an update is found, follow the on-screen instructions to complete the upgrade process. Keeping your firmware up to date ensures optimal performance and security for your RT-AX50 Go.

6 Troubleshooting

If your RT-AX50 Go disconnects, check the operation mode and try the corresponding steps:

- Router mode
 - Ensure that the network cable is plugged properly.
 - If the LED is solid white, contact the Internet Service Provider (ISP).
 - Make sure the internet type is correct, you can click **c**.
 - a. **PPPoE**: Requires a pair of a username and a password from the Internet Service Provider (ISP).
 - b. **DHCP**: Plug and connect to the internet.
 - c. **Static IP**: Requires a full list of IP addresses, subnet mask settings, DNS settings and default gateway, please contact the Internet Service Provider (ISP).
 - Click  to reconfigure RT-AX50 Go.
- Public WiFi mode (WISP)
 - If the LED is red: RT-AX50 Go is disconnected from the Parent WiFi network, please click **change network** to connect to other WiFi networks.
 - If the LED is blinking blue: RT-AX50 Go is connecting to the Parent WiFi network and it may take 1~2 minutes to complete. If the status remains unchanged, click **change network** to connect to other WiFi networks.
 - If you want to change the operation mode, click  to reconfigure RT-AX50 Go.

- Access Point (AP) mode
 - Ensure that the network cable is plugged properly.
 - If the LED is solid white, please check the internet connection of the parental router or contact the Internet Service Provider (ISP).
 - If you want to change the operation mode, click  to reconfigure RT-AX50 Go.

7 FAQ (Frequently Asked Questions)

[How to reset my RT-AX50 Go to factory defaults?](#)

[How to connect RT-AX50 Go to a mobile hotspot?](#)

[How to fix disconnections in Access Point \(AP\) Mode?](#)

[How to fix disconnections in Public WiFi Mode \(WISP\)?](#)

[How to fix disconnections in Router Mode?](#)

[Why am I unable to use my mobile hotspot connection properly?](#)

[How to recover the firmware of RT-AX50 Go?](#)

Appendices

Safety Notices

When using this product, always follow the fundamental safety precautions, including, but not limited to the following:



WARNING!

- Do NOT use damaged power cords, accessories, or other peripherals.
 - Do NOT mount this equipment higher than 2 meters.
 - Use this product in environments with ambient temperatures between 0°C (32°F) and 40°C (104°F).
 - Read the operational guidelines and the temperature range provided before using the product.
 - Pay particular attention to the personal safety when using this device in airports, hospitals, gas stations and professional garages.
 - Medical device interference: Maintain a minimum distance of at least 15 cm (6 inches) between implanted medical devices and ASUS products to reduce the risk of interference.
 - Kindly use ASUS products in good reception conditions to minimize the radiation's level.
 - Keep the device away from pregnant women and the lower abdomen of the teenager.
 - Do NOT use this product if visible defects can be observed or it has been wet or damaged or modified. Seek servicing for assistance.
-

**WARNING!**

- Do NOT place on uneven or unstable work surfaces.
 - Do NOT place or drop objects on the top of the product. Avoid exposing the product to mechanical shock such as crushing, bending, puncturing or shredding.
 - Do NOT disassemble, open, microwave, incinerate, paint, or shove any foreign objects into this product.
 - Refer to the rating label on the bottom of your product and ensure your power adapter complies with this rating.
 - Keep the product away from fire and heat sources.
 - Do NOT expose to or use near liquids, rain, or moisture. Do NOT use the product during electrical storms.
 - Connect the PoE output circuits of this product exclusively to PoE networks, without routing to external facilities.
 - To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
 - Only use accessories that have been approved by the device manufacturer to work with this model. The use of other types of accessories may invalidate the warranty or violate local regulations and laws, and may pose safety risks. Contact your local retailer for the availability of authorized accessories.
 - Use of this product in a way not recommended in the provided instructions may result in a risk of fire or personal injury.
 - The product is for indoor use only.
-

WEEE Notice



The Waste Electrical and Electronic Equipment (WEEE) Directive (Directive 2012/19/EU) is a European Union law that aims to reduce the environmental impact of electrical and electronic equipment. It mandates producers to take responsibility for the end-of-life management of their products, promoting collection, treatment, and recycling to minimize waste and encourage resource recovery.

Do not throw your Electronic and electrical equipment in municipal waste.

The symbol of the crossed-out wheeled bin on the product or packaging indicates that this product (including any batteries it contains), must not be disposed of with your household waste.

To prevent potential harm to the environment and human health, a collection framework should be used to return, recycle, and recover waste electrical and electronic equipment (WEEE), and this product has been designed to enable the reuse of parts and facilitate the recycling of certain materials.

Improper disposal may involve risks due to the presence of hazardous substances within electrical and electronic equipment, such as lead and BFR and other harmful components.

Check your local recycling services for electronic products (<https://esg.asus.com/en/circular-economy/resource-regeneration/global-take-back-service>).