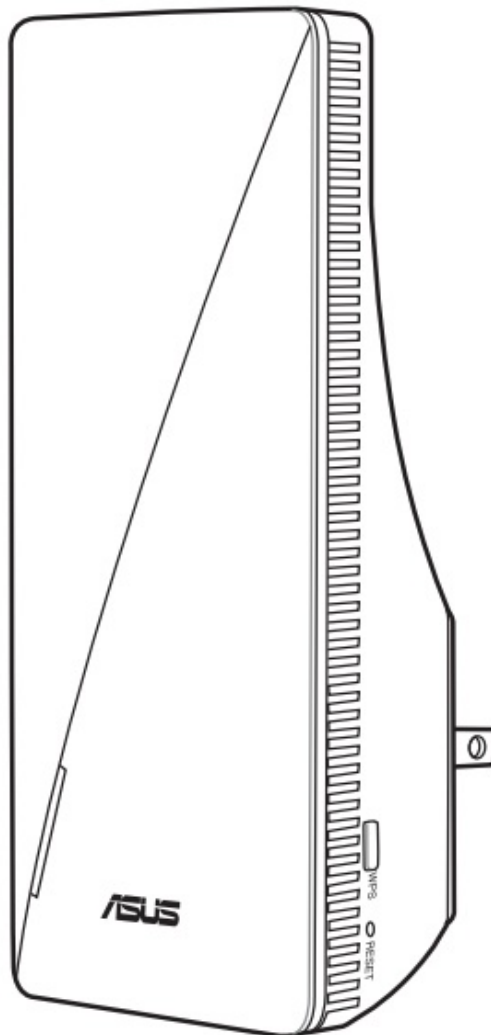




## ASUS Dual-band Wireless Router RP-AX56 User Guide

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**Quick Start Guide**  
RP-AX56  
Dual-Band Wireless Repeater

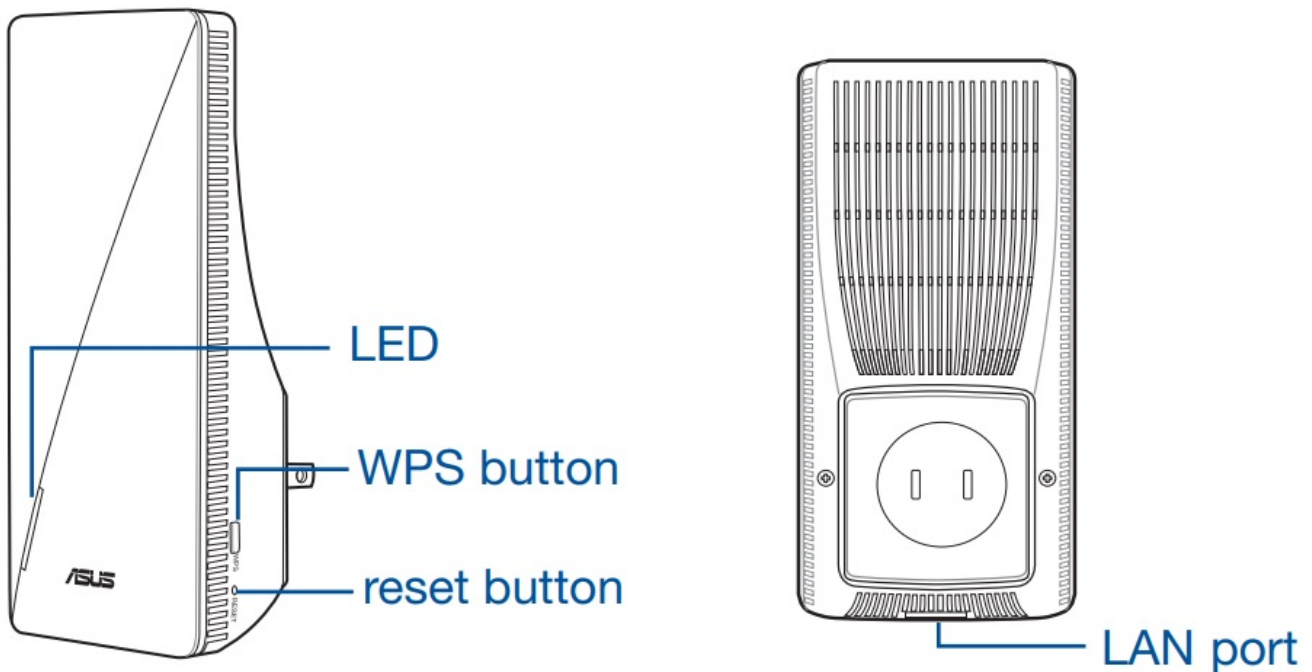
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## Hardware Explanations

1. Plug RP-AX56 into a power outlet.
2. The LED will start breathing white for 3 seconds while booting up.



- **WPS BUTTON**

Launch the WPS Wizard.

- **RESET BUTTON**

Reset the system to its factory default settings.

- **LAN PORT**

Connect your PC to the LAN port with a network cable.

## LED Explanations

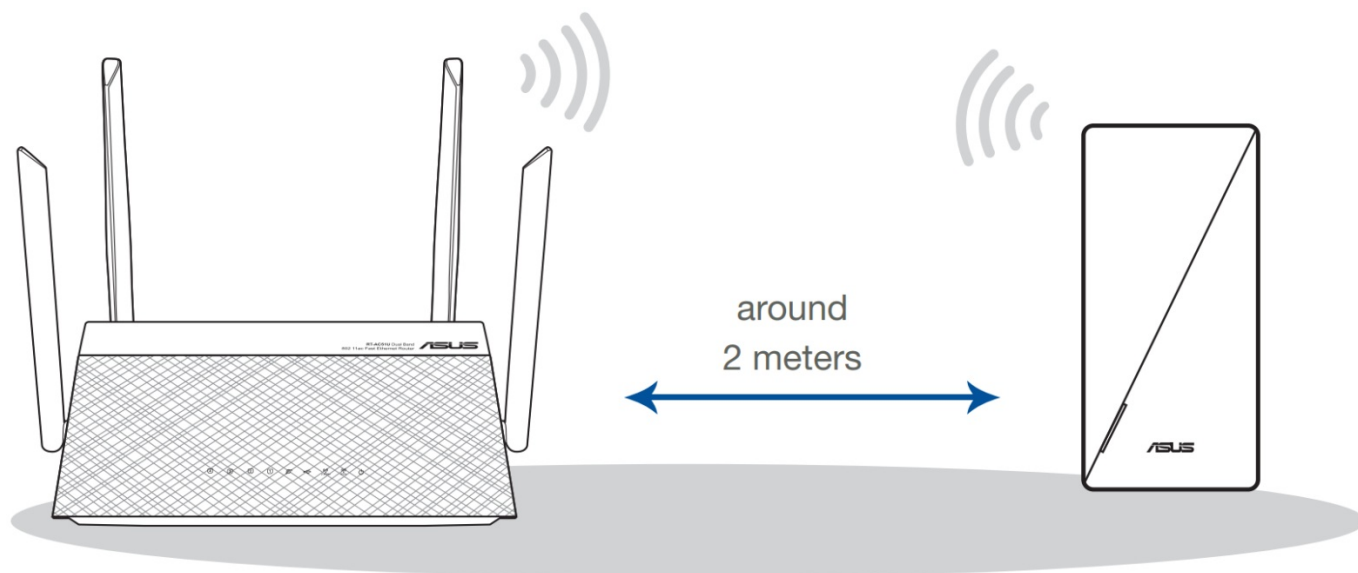
Repeater Mode	
Status	LED Behavior
Booting up	Blinking White
Booting up complete (haven't connected to Router)	Solid Blue
Reset (use a pin to press the reset button for 5 seconds)	Blinking Yellow
Rescue mode	Solid Purple
Starting WPS	Blinking Blue
Connected to the router with Good Signal	Solid White
Connected to the router with Weak Signal	Solid Yellow
No Signal	Solid Red
AP mode (with wired connection)	Solid White
AP mode (without wired connection)	Solid Red

AiMesh Mode	
Status	LED Behavior
Booting up	Blinking White
Booting up complete (not connected to AiMesh Router)	Solid Blue
Reset (use a pin to press the reset button for 5 seconds)	Blinking Yellow
Rescue mode	Solid Purple
Connecting to the AiMesh Router	Blinking Blue
Connected to the AiMesh Router with Good Signal	Solid White
Connected to the AiMesh Router with Weak Signal	Solid Yellow
No Signal	Solid Red
Ethernet backhaul	Solid White

## BEFORE SETUP

### WE SUGGEST

1. Plug your RP-AX56 into a power outlet near your router/AP.
2. Check the LEDs and see the LED explanations.
3. Wait for the LED to flash and turn solid blue, indicating that your RP-AX56 is ready to connect to your existing router/AP.



## SETUP METHODS

### Set up RP-AX56 as a repeater

If you would like to connect RP-AX56 to other WiFi networks excluding AiMesh-supported routers, please follow any one of the following two methods to download the ASUS Extender App.

#### METHOD 1





<https://play.google.com/store/apps/details?id=com.asus.aiextender>



<https://itunes.apple.com/app/asus-extender/id1112040720>

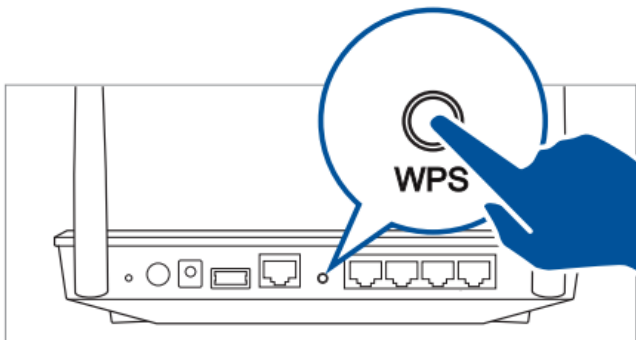


Download the ASUS Extender App and follow the onscreen instructions to finish the setup.

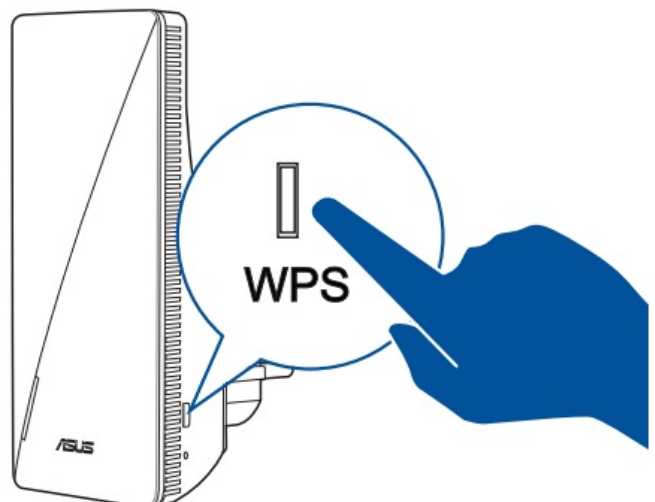
## METHOD 2

Connect via WPS

1 Press the WPS button on your router/AP.



2 Press the WPS button on your RP-AX56 for more than two (2) seconds until the LED starts to blink blue.



## SETUP METHODS

### Setup RP-AX56 as an AiMesh Node

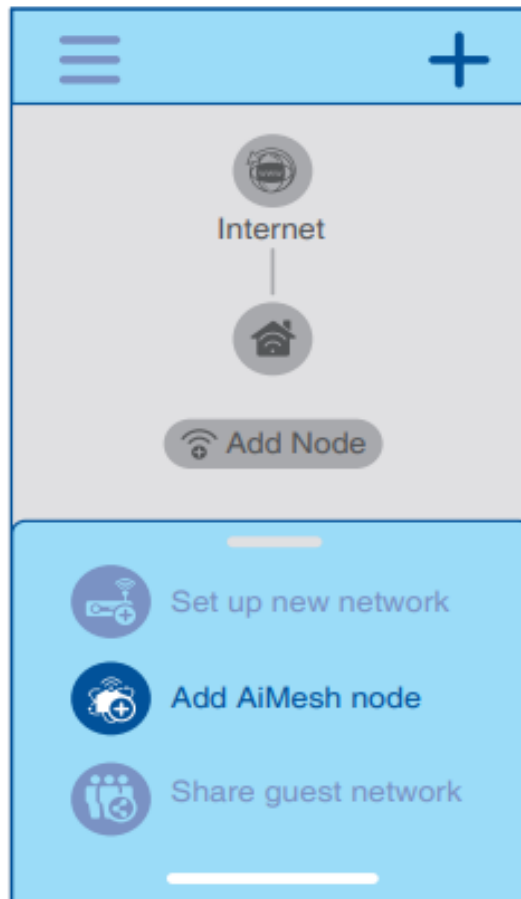
If you've already had an AiMesh supported router and intend to create an AiMesh system, please install ASUS Router App for setting up RP-AX56 as a node. Log in to your existing router and click "+" on the upper right of the Home page. Select "Add AiMesh Node" and follow in-app instructions to finish setting up your node.  
Download the ASUS Router App



<https://play.google.com/store/apps/details?id=com.asus.aihome&hl=en>



<http://itunes.apple.com/app/asus-router/id1033794044>



## TROUBLESHOOTING

If your AiMesh router cannot find RP-AX56 nearby or synchronization fails, please check the following and try again.

- (a) Plug RP-AX56 into a power outlet near your router/AP. Ensure that it is within 3 meters from the AiMesh router.
- (b) Your AiMesh router is upgraded to AiMeshsupported firmware.
- (c) i. Download AiMesh – supported firmware at: <https://www.asus.com/AiMesh/>.
- ii. Launch a web GUI. You will be redirected to the ASUS Setup Wizard. If not, navigate to <http://router.asus.com>.
- iii. Go to **Administration > Firmware Upgrade**. Click Choose File, and upload the AiMesh-supported firmware.

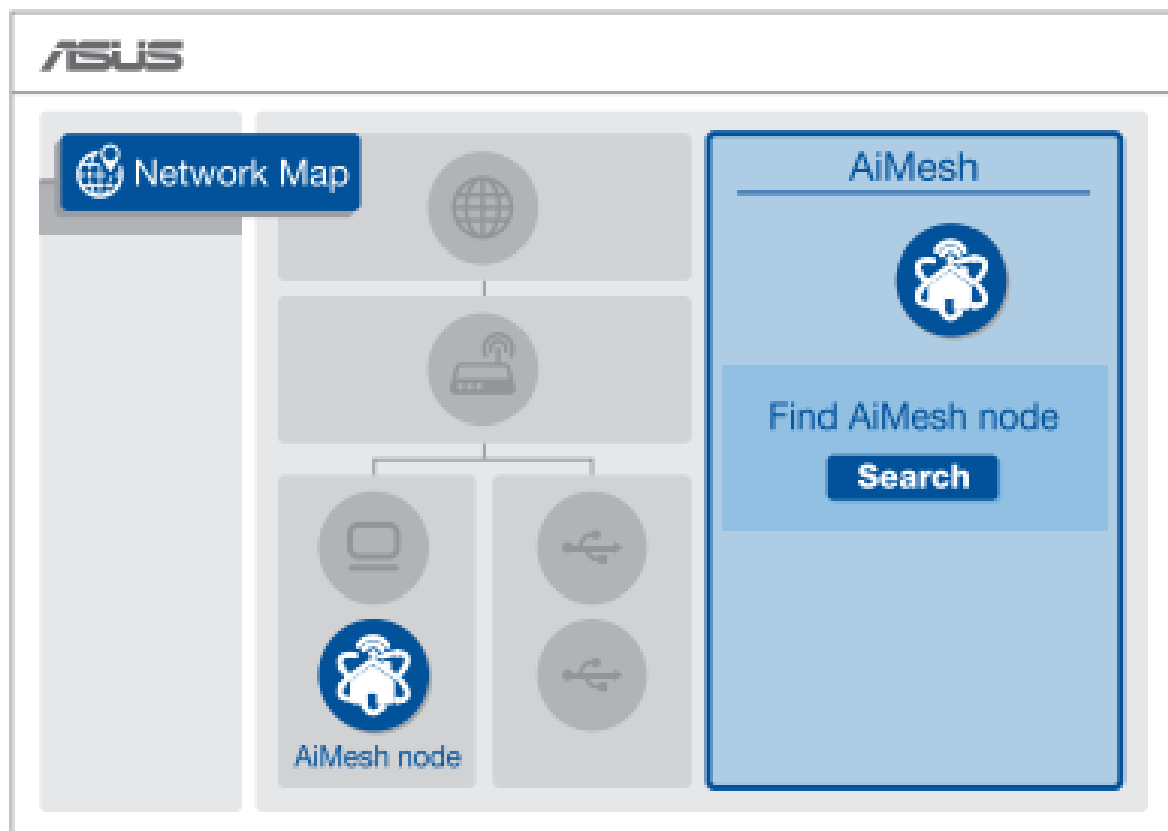
Firmware Upgrade

Administration - Firmware Upgrade

Firmware Version

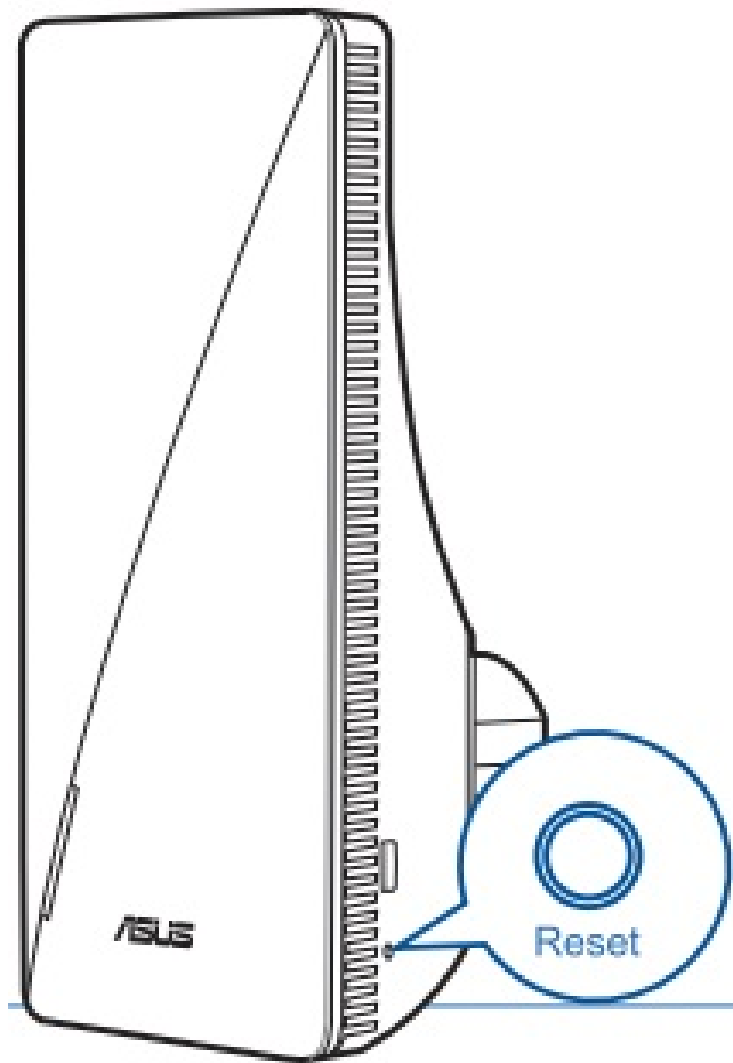
Product ID	RT-ABCDE	
Firmware Version	3.0.4.382_12345678	Check
New Firmware File	<a href="#">Choose File</a>	Upload

iv. After the firmware is uploaded, please go to the Network Map page to check and make sure that the AiMesh icon shows up.



v. Use a pin to press the reset button on your RP-AX56 for at least 5 seconds. Release the reset button when the power LED is flashing slowly.

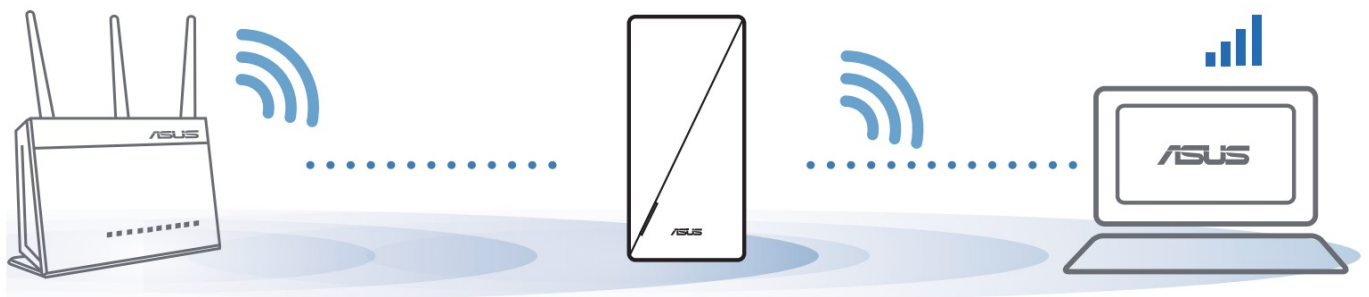




## RELOCATION

### THE BEST PERFORMANCE

Locate the AiMesh router and RP-AX56 at the best place.



### NOTES:

- To minimize interference, keep the routers away from devices like cordless phones, Bluetooth devices, and microwave ovens.
- We recommend that you place the routers in an open or spacious location.

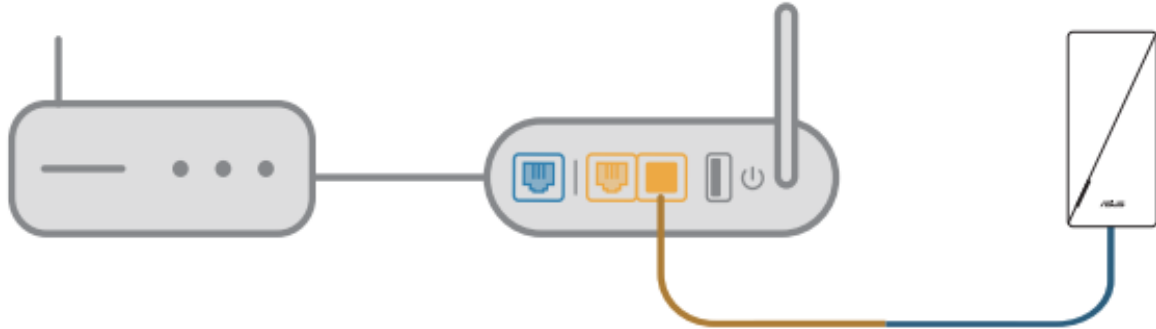
## FAQ

### FREQUENTLY ASKED QUESTIONS

## Q1 Could I set up a wired connection between AiMesh routers and nodes (Ethernet backhaul)?

**A: Yes.** The AiMesh system supports both wireless and wired connections between an AiMesh router and node to maximize throughput and stability. AiMesh analyzes the wireless signal strength for each frequency band available and then determines automatically whether a wireless or wired connection is best to serve as the inter-router connection backbone.

1. Follow the setup steps to establish a connection between the AiMesh router and RP-AX56 via WiFi first.
2. Place the RP-AX56 in an ideal location for the best coverage. Run an Ethernet cable from the LAN port of the AiMesh router to the Ethernet backhaul port of RPAX56.



LAN to LAN (Ethernet backhaul) port

3. AiMesh system will auto-select the best path for data transmission, whether wired or wireless.

To know more about ASUS AiMesh, please go to <https://www.asus.com/AiMesh/>.

## Q2 How to set up the Access Point(AP) mode on an ASUS Repeater?

1. Launch a web browser and enter <http://repeater.asus.com>.
2. If you are logging into the Web GUI for the first time, you will be automatically directed to the Quick Internet Setup (QIS) page. Click Advanced Settings.
3. Click **Choose operation mode**, then click **Access Point(AP) mode**.
4. Click **Automatic IP**, then click to set up the SSIDs separately.
5. For the first time, you'll need to set up the username and password for your RPAX56. When typing is done, click **Next**. Access Point(AP) mode setting is finished.

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

## REACH

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

## Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. 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 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.
- Operations in the 5.15-5.25GHz band are restricted to indoor usage only.



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

#### **Prohibition of Co-location**

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

#### **IMPORTANT NOTE:**

Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End-users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC exposure compliance requirements, please follow operation instructions as documented in this manual.



**WARNING!** This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

#### **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 51505250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

CAN ICES-3(B)/NMB-3(B)

#### **Radio Frequency (RF) Exposure Information**

The radiated output power of the ASUS Wireless Device is below the Innovation, Science, and Economic Development Canada radio frequency exposure limits. The ASUS Wireless Device should be used in such a manner that the potential for human contact during normal operation is minimized. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator any part of your body.

This device has been certified for use in Canada. Status of the listing in the Innovation, Science and Economic Development Canada's REL (Radio Equipment List) can be found at the following web address:

[http://www.ic.gc.ca/eic/site/ceb-bhst.nsf/eng/h\\_tt00020.html](http://www.ic.gc.ca/eic/site/ceb-bhst.nsf/eng/h_tt00020.html)

Additional Canadian information on RF exposure also can be found at the following web:

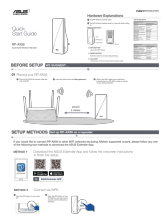
<https://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html>

#### **Safety Notices**

- Use this product in environments with ambient temperatures between 0°C(32°F) and 40°C(104°F).
- Refer to the rating label on the bottom of your product and ensure your power adapter complies with this rating.
- DO NOT place on uneven or unstable work surfaces. Seek to service if the casing has been damaged.
- DO NOT place or drop objects on top and do not shove any foreign objects into the product.
- DO NOT expose to or use near liquids, rain, or moisture. DO NOT use the modem during electrical storms.

- DO NOT cover the vents on the product to prevent the system from getting overheated.
- DO NOT use damaged power cords, accessories, or other peripherals.
- If the Adapter is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- To prevent electrical shock hazards, disconnect the power cable from the electrical outlet before relocating the system.

## Documents / Resources

	<p><a href="#">ASUS Dual-band Wireless Router RP-AX56</a> [pdf] User Guide tp-link, Dual-Band, Wireless, Router, RP-AX56</p>
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## References

- [ASUS Global](#)
- [Radio equipment list \(REL\)](#)
- [Frequently Asked Questions \(FAQ\) on Radiofrequency \(RF\) Energy and Health](#)