ASUS RT-AC5300

ASUS RT-AC5300 Tri-Band Gigabit Wireless Router Instruction Manual

Model: **RT-AC5300** | Brand: **ASUS**

1. Introduction

The ASUS RT-AC5300 is a high-performance Wireless-AC5300 Tri-band Gigabit Router designed to deliver exceptional network performance. It features 5330 Mbps throughput for smooth 4K/UHD video playback, AiProtection for robust security, MU-MIMO technology for efficient multi-device connectivity, Link Aggregation with teaming ports, and Tri-Band Smart Connect for optimized band allocation. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your router.



Figure 1: Front view of the ASUS RT-AC5300 Router.

2. What's in the Box

Please check the contents of your RT-AC5300 package. If any item is damaged or missing, contact your retailer.

- ASUS RT-AC5300 Tri-Band Gigabit Wireless Router
- Power Adapter
- Ethernet Cable (RJ-45)
- Quick Start Guide
- Warranty Card

3. Setup

3.1. Physical Connection

Before configuring your router, ensure all necessary cables are securely connected.

1. Connect your modem to the router's WAN port using an Ethernet cable.
2. Connect your computer (laptop or PC) to one of the router's LAN ports using another Ethernet cable.
3. Plug the power adapter into the router's DC-IN port and then into a power outlet. Press the power button to turn on the router.
4. Verify that the Power, WAN, LAN, and Wi-Fi LED indicators on the router are illuminated.



Figure 2: Rear view of the ASUS RT-AC5300 Router showing ports.

3.2. Quick Internet Setup (QIS)

The Quick Internet Setup (QIS) wizard guides you through the initial router configuration.

1. Open a web browser on your connected computer.
2. Type router.asus.com into the address bar and press Enter.
3. The QIS wizard will launch. Follow the on-screen prompts to detect your internet connection type, set up your Wi-Fi network name (SSID) and password, and configure the router's login credentials.
4. Once completed, you should see an internet connection status of 'Connected'.

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Video 1: How to set up ASUS WiFi Router via Quick Internet Setup.

4. Operating Your Router

The RT-AC5300 router offers advanced features to optimize your network experience:

- **Tri-band Technology:** Utilizes dual 5 GHz bands and a single 2.4 GHz band with 802.11AC 4x4 technology for maximum throughput (up to 5334 Mbps) and extensive coverage (up to 5,000 sq. ft.).
- **MU-MIMO Technology:** Enables multiple compatible devices to connect simultaneously at their respective maximum speeds, improving overall network efficiency.
- **AiProtection powered by Trend Micro:** Provides multi-stage protection against online threats, from vulnerability detection to safeguarding sensitive data.
- **ASUS Smart Connect:** Automatically and dynamically switches devices between the 2.4 GHz and 5 GHz bands based on speed, load, and signal strength to ensure consistent bandwidth.
- **Adaptive QoS:** Prioritizes network traffic for specific applications, ensuring smooth gaming and streaming experiences.
- **Parental Control:** Allows you to manage and monitor internet usage for connected devices, providing a safer online environment.

5. Maintenance

5.1. Firmware Update

Keeping your router's firmware updated ensures optimal performance, security, and access to new features. You can perform a live update or a manual update.

1. Access the router's settings page by typing router.asus.com in your browser and logging in.
2. Navigate to **Administration** > **Firmware Upgrade**.
3. For a live update, click **Check** to see if a new version is available, then click **Firmware Upgrade**.
4. For a manual update, download the latest firmware from the ASUS support website (asus.com/support), unzip the file, and then use the **Upload** option on the Firmware Upgrade page to select the downloaded file.
5. Do not power off or shut down the router during the update process. The router will reboot automatically once the update is complete.

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Video 2: How to update the firmware of ASUS WiFi Router.

5.2. Restore to Default Settings

If you encounter persistent issues or wish to clear all custom settings, you can restore the router to its factory default settings.

1. **Software Reset:** Access the router's settings page (router.asus.com), navigate to **Administration** > **Restore/Save/Upload Setting**, and click the **Restore** button under 'Factory default'. Confirm the action.
2. **Hardware Reset:** With the router powered on, locate the **RESET** button (usually a small pinhole) on the rear panel. Press and hold this button for about 5-10 seconds until the Power LED light starts to flash, then release. The router will reboot with factory default settings.

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Video 3: How to restore the ASUS router to default setting.

6. Troubleshooting

6.1. Fixing Internet Connection Problems

If your devices cannot access the internet through the router, follow these steps:

1. **Check LED Lights:** Ensure the Power, WAN, LAN, and Wi-Fi LEDs on the router are solid blue. If any are off

or blinking unexpectedly, check the corresponding connections.

2. **Verify Cable Connections:** Make sure all Ethernet cables (WAN to modem, LAN to PC) are securely plugged in.
3. **Power Cycle Devices:** Turn off your modem, router, and computer. Wait for 30 seconds, then turn on the modem, wait for it to fully boot, then turn on the router, and finally your computer.
4. **Check WAN Settings:** Log into the router's settings page (router.asus.com) and navigate to **WAN** settings. Confirm that your WAN connection type (e.g., PPPoE, Static IP, Automatic IP) and credentials are correct as provided by your Internet Service Provider (ISP).
5. **Firmware Update:** Ensure your router's firmware is up to date (refer to Section 5.1).

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Video 4: Troubleshooting steps for Internet Connection on ASUS Router.

6.2. Improving Wi-Fi Signal

If you experience weak or unstable Wi-Fi signals, consider the following:

1. **Router Placement:** Position the router in a central location, away from obstructions like thick walls, metal objects, and other electronic devices (e.g., microwaves, cordless phones) that can cause interference.
2. **Adjust Antennas:** For optimal signal, try adjusting the router's antennas. A common recommendation is to position them at a 45-degree or 90-degree angle relative to each other or the router body.
3. **Change Wi-Fi Channel:** Log into the router's settings page (router.asus.com), navigate to **Wireless** > **General**, and try changing the 'Control Channel' from 'Auto' to a less congested channel.
4. **Update Device Drivers:** Ensure the wireless network adapter drivers on your connected devices (laptops, smartphones, etc.) are up to date.

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Video 5: Tips on how to improve WiFi signal.

7. Specifications

Feature	Detail
Model Name	RT-AC5300
Wireless Type	5.8 GHz Radio Frequency, 802.11a/b/g/n, 802.11ac
Frequency Band Class	Tri-Band
Connectivity Technology	Wireless
Number of USB 2.0 Ports	1
Operating System Support	Windows 8.1, 8, 7, Mac OS
Item Weight	3.21 pounds
Product Dimensions (LxWxH)	24.5 x 6.5 x 24.5 inches
Color	Black
Voltage	240 Volts
Recommended Uses	Business, Gaming, Home

8. Warranty and Support

Your ASUS RT-AC5300 router comes with a manufacturer's warranty. Please refer to the warranty card included in your package for detailed terms and conditions, including warranty period and coverage.

For technical support, product registration, or to download the latest drivers and firmware, please visit the official ASUS Support website: www.asus.com/support.