

ASUS RP-AX56

ASUS AX1800 Dual Band WiFi 6 Repeater (RP-AX56) Instruction Manual

Model: RP-AX56 | Brand: ASUS

INTRODUCTION

The ASUS RP-AX56 is a dual-band WiFi 6 range extender designed to expand your wireless network coverage. It supports the latest 802.11ax (WiFi 6) standard, offering enhanced capacity and efficiency. This device can function as a standalone repeater or integrate seamlessly into an existing ASUS AiMesh system to provide whole-home WiFi coverage.

PRODUCT OVERVIEW

Key Features

- **Next-Gen WiFi Standard:** Supports 802.11AX (WiFi 6) and 80MHz bandwidth for better capacity and efficiency.
- **Ultra-fast WiFi Speed:** RP-AX56 supports 80MHz bandwidth and 1024-QAM for dramatically faster wireless connections. With a total networking speed of about 1800Mbps — 574 Mbps on the 2.4GHz band and 1201 Mbps on the 5GHz band.
- **Extend Seamless AiMesh WiFi System:** Expand your current AiMesh network to deliver powerful, seamless WiFi and robust functions on AiMesh router to your entire home.
- **One or Multiple WiFi Name, the Choice is Yours:** When extending an AiMesh network, you can keep one WiFi name (SSID) for the entire network or give individual names to each WiFi band for different uses.
- **Easy Setup with Mobile App:** With ASUS Router app and ASUS Extender app, you can upgrade your home WiFi with just a few taps.

What's in the Box

- RP-AX56 Router
- Quick Start Guide
- Warranty Card

Product Dimensions

The RP-AX56 measures approximately 5.91 x 2.83 x 3.43 inches.



Image showing the physical dimensions of the ASUS RP-AX56 WiFi Repeater, indicating a height of 5.91 inches, a width of 2.83 inches, and a depth of 3.43 inches.

SETUP INSTRUCTIONS

Initial Placement

For optimal performance, place the RP-AX56 between your existing router and the area where you need improved WiFi coverage. Ensure it receives a strong signal from your main router.



A diagram depicting a multi-story house with WiFi signals extending from a central ASUS router and two AiMesh nodes, illustrating how the system provides seamless whole-home coverage.

Powering On

Plug the RP-AX56 into a power outlet. Wait for the power LED to stabilize, indicating it is ready for configuration.

Configuration Methods

The RP-AX56 can be set up using two primary methods:

Method 1: Using the ASUS Router App (Recommended for AiMesh)

1. Download the ASUS Router app on your mobile device.
2. Ensure your main ASUS router is powered on and configured.
3. Open the ASUS Router app and follow the on-screen instructions to add a new AiMesh node. The app will guide you through the process of detecting and integrating the RP-AX56 into your AiMesh system.
4. Once connected, the RP-AX56 will automatically adopt the settings of your AiMesh router.

Method 2: Manual Setup via Web Browser

1. Connect your computer or mobile device to the RP-AX56's default WiFi network (usually named "ASUS_RP-AX56" or similar, found on the product label).
2. Open a web browser and navigate to router.asus.com or the IP address specified in the Quick Start Guide.
3. Follow the on-screen wizard to configure the RP-AX56 as a repeater or to join an existing AiMesh network. You will be prompted to enter your existing WiFi network's credentials.
4. After configuration, the device will restart. Reconnect your devices to your extended WiFi network.

OPERATING INSTRUCTIONS

Understanding LED Indicators

The RP-AX56 features LED indicators that provide status information. Refer to the Quick Start Guide for a

detailed explanation of each LED's meaning (e.g., power, 2.4GHz WiFi, 5GHz WiFi, signal strength).

AiMesh Node Functionality

When configured as an AiMesh node, the RP-AX56 works seamlessly with your ASUS AiMesh router to create a unified whole-home WiFi network. Devices will automatically connect to the strongest signal, ensuring smooth roaming.

Repeater Mode

In repeater mode, the RP-AX56 extends the range of your existing WiFi network. It receives the wireless signal from your router and re-transmits it, effectively expanding coverage to dead zones.

Dual-Band Operation

The RP-AX56 operates on both 2.4GHz and 5GHz bands. The 2.4GHz band offers wider coverage, while the 5GHz band provides faster speeds for compatible devices.

MAINTENANCE

Firmware Updates

Regularly check for and install firmware updates for your RP-AX56 and main ASUS router. Firmware updates often include performance improvements, security patches, and new features. These can typically be managed through the ASUS Router app or the web interface.

Optimal Placement

Ensure the RP-AX56 is placed in an open area, away from obstructions like large metal objects, thick walls, and other electronic devices that may cause interference.

Cleaning

Keep the device clean and free from dust to ensure proper ventilation. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.

TROUBLESHOOTING

No Internet Connection

- Verify that your main router has an active internet connection.
- Check the LED indicators on the RP-AX56. If the signal strength LED is red or off, try repositioning the extender closer to your main router.
- Restart both your main router and the RP-AX56.

Slow WiFi Speed

- Ensure the RP-AX56 is placed in an optimal location, where it receives a strong signal from the main router.
- Reduce interference by moving the extender away from other electronic devices.
- Check if too many devices are connected to the extended network, potentially saturating bandwidth.
- Consider using the 5GHz band for devices that require higher speeds, if available.

Unable to Connect to AiMesh

- Ensure your main ASUS router supports AiMesh and has the latest firmware.
- Perform a factory reset on the RP-AX56 and attempt the setup process again using the ASUS Router app.
- Place the RP-AX56 closer to the main router during the initial AiMesh setup.

TECHNICAL SPECIFICATIONS

Feature	Detail
Wireless Type	802.11a, 802.11ac, 802.11ax, 802.11g, 802.11n
Brand	ASUS
Series	RP-AX56
Item Model Number	RP-AX56
Item Weight	6.7 ounces (0.42 Pounds)
Product Dimensions	5.91 x 2.83 x 3.43 inches
Frequency Band Class	Dual-Band
Compatible Devices	Router
Connectivity Technology	Wi-Fi
Date First Available	February 22, 2021

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the Warranty Card included in the product packaging or visit the official ASUS support website.

Online resources, including FAQs and driver downloads, are available at www.asus.com/support/.