

TP-Link RE305

TP-Link RE305 AC1200 Wi-Fi Range Extender User Manual

Model: RE305

1. INTRODUCTION

The TP-Link RE305 AC1200 Wi-Fi Range Extender is designed to expand your existing Wi-Fi coverage and eliminate Wi-Fi dead zones. It works with any standard Wi-Fi router and operates on both 2.4GHz and 5GHz bands, providing fast and reliable connections for multiple devices. This manual provides detailed instructions for setting up, operating, and troubleshooting your range extender.

2. PACKAGE CONTENTS

- TP-Link RE305 AC1200 Wi-Fi Range Extender
- Quick Installation Guide

Note: Contents may vary slightly by region.

3. PRODUCT OVERVIEW

The RE305 features a compact design with external antennas for optimal signal strength. It includes an Ethernet port for wired connections and intuitive LED indicators to show its status.



Figure 3.1: Front view of the TP-Link RE305 Wi-Fi Range Extender, showing the WPS button and LED indicators.



Figure 3.2: Illustration of the RE305's dual-band capabilities, supporting 2.4 GHz (300 Mbps) and 5 GHz (867 Mbps) connections.



Figure 3.3: Bottom view of the RE305, highlighting the Ethernet port for wired device connectivity.

LED Indicators

LED Name	Status	Description
Power	Solid Blue	The extender is powered on.
Power	Off	The extender is powered off.
Signal	Solid Blue	Good connection to the host router.
Signal	Solid Red	Poor connection to the host router (too far).
Signal	Off	No connection to the host router.
2.4GHz	Solid Blue	2.4GHz Wi-Fi band is active.

LED Name	Status	Description
5GHz	Solid Blue	5GHz Wi-Fi band is active.

4. SETUP

There are two main methods to set up your TP-Link RE305 Wi-Fi Range Extender: using the WPS button or via a web browser.

Method 1: Using the WPS Button (Recommended for quick setup)

1. Plug the extender into a power outlet next to your router. Wait until the Power LED turns solid blue.
2. Press the WPS button on your router.
3. Within two minutes, press the WPS button on the RE305 extender. The Signal LED should start blinking.
4. Wait for the Signal LED to turn solid blue, indicating a successful connection. If the LED is red or off, try relocating the extender closer to the router or use Method 2.

Method 2: Via Web Browser (For detailed configuration)

1. Plug the extender into a power outlet next to your router. Wait until the Power LED turns solid blue.
2. Connect your computer or mobile device to the extender's Wi-Fi network (e.g., "TP-Link_Extender" or "TP-Link_Ext"). No password is required for the initial connection.
3. Open a web browser and type **http://tplinkrepeater.net** or **http://192.168.0.254** into the address bar.
4. Create a login password for the extender's management page.
5. Follow the on-screen instructions to select your host Wi-Fi network(s) (2.4GHz and/or 5GHz) and enter their respective passwords.
6. You can customize the extended network names (SSIDs) or keep them as default (e.g., "YourNetworkName_EXT").
7. Confirm your settings and wait for the extender to reboot and apply the changes.
8. Once the Signal LED turns solid blue, the setup is complete. You can now connect your devices to the extended network.

5. OPERATION

After successful setup, the RE305 will automatically extend your Wi-Fi network. You can relocate the extender to an optimal position between your router and the Wi-Fi dead zone. Ensure the Signal LED is solid blue for the best performance.

- **Optimal Placement:** Place the extender halfway between your router and the area where you need improved Wi-Fi. The Signal LED should be solid blue.
- **Ethernet Port:** Use the Ethernet port to connect a wired device like a smart TV, gaming console, or PC to your Wi-Fi network. This provides a stable wired connection while still extending Wi-Fi wirelessly.
- **Access Point Mode:** The RE305 can also function as an Access Point (AP). In AP mode, it connects to a wired network and transforms it into a wireless network, allowing multiple devices to connect wirelessly. This mode is configured via the web management interface.

6. MAINTENANCE

- Keep the device in a dry environment, away from water and moisture.
- Ensure proper ventilation around the device to prevent overheating.
- Clean the device with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Periodically check for firmware updates on the TP-Link official website to ensure optimal performance and security.

7. TROUBLESHOOTING

Q1: What should I do if I cannot access the extender's web management page?

- Ensure your computer or mobile device is connected to the extender's Wi-Fi network.
- Verify that **http://tplinkrepeater.net** or **http://192.168.0.254** is correctly typed in the web browser.
- If you are using a computer, ensure it is set to obtain an IP address automatically.
- Try a different web browser.
- Reboot your extender and try again.

Q2: What should I do if the Signal LED is red or off?

- Relocate the extender closer to your host router.
- Ensure the host router's Wi-Fi is active and broadcasting.
- If using WPS, ensure you pressed the WPS button on both the router and extender within the two-minute window.
- Try setting up the extender via the web browser method (Method 2).

Q3: How do I reset the extender to factory default settings?

With the extender powered on, use a pin to press and hold the Reset button (located in a small hole, usually near the Ethernet port) for about 5 seconds until all LEDs flash briefly. The extender will then restart with factory default settings.

8. SPECIFICATIONS

Feature	Detail
Model	RE305
Wireless Communication Standard	802.11n, 802.11b, 802.11a, 802.11g, 802.11ac
Data Transfer Rate	1200 Megabits Per Second (AC1200)
Special Feature	WiFi Mesh
Connector Type	RJ45 (Ethernet Port)
Product Dimensions	3.07 x 3.03 x 3.15 inches
Item Weight	5.6 ounces
Manufacturer	TP-Link
Date First Available	November 6, 2016

9. WARRANTY AND SUPPORT

TP-Link provides a standard warranty for this product. For detailed warranty information, technical support, and additional resources, please visit the official TP-Link website:

www.tp-link.com/us/support/

You can also find FAQs, firmware updates, and contact information for customer service on their support page.