

TP-Link RE300

TP-Link AC1200 WiFi Range Extender (RE300) Instruction Manual

1. OVERVIEW

The TP-Link AC1200 WiFi Range Extender (RE300) is designed to expand your existing Wi-Fi coverage, eliminating dead zones and providing reliable, high-speed internet access throughout your home or office. This dual-band extender supports both 2.4 GHz and 5 GHz frequencies, offering speeds up to 1200 Mbps (300 Mbps on 2.4 GHz and 867 Mbps on 5 GHz). It features OneMesh technology for seamless roaming when paired with compatible routers, adaptive path selection for optimal connection, and easy setup via the TP-Link Tether app.

2. PRODUCT FEATURES

- **Dual-Band Wi-Fi Extension:** Extends Wi-Fi range with simultaneous 2.4 GHz (300 Mbps) and 5 GHz (867 Mbps) connections, compatible with any standard Wi-Fi router or access point.
- **OneMesh Technology:** Creates a unified mesh network with compatible TP-Link OneMesh routers (e.g., Archer A7) for seamless whole-home coverage and uninterrupted streaming.
- **Smart Signal Indicator:** Helps you find the best location for optimal Wi-Fi coverage by displaying the signal strength from the existing router.
- **High-Speed Mode:** Utilizes both Wi-Fi bands to establish one super-high-speed connection, ideal for HD streaming and gaming.
- **Adaptive Path Selection:** Automatically chooses the fastest connection path to the router to ensure your network runs at top speed.
- **Access Point Mode:** Can function as a wireless access point by connecting to a wired Ethernet network.
- **Easy Setup:** Simple setup via the TP-Link Tether app, WPS button, or web browser.
- **Compact Design:** Plugs directly into a wall outlet, saving space.

3. PACKAGE CONTENTS

- TP-Link AC1200 Mesh Wi-Fi Extender (RE300)
- Quick Installation Guide

Boost Your Wi-Fi Network to Cover Hard-to-reach Areas

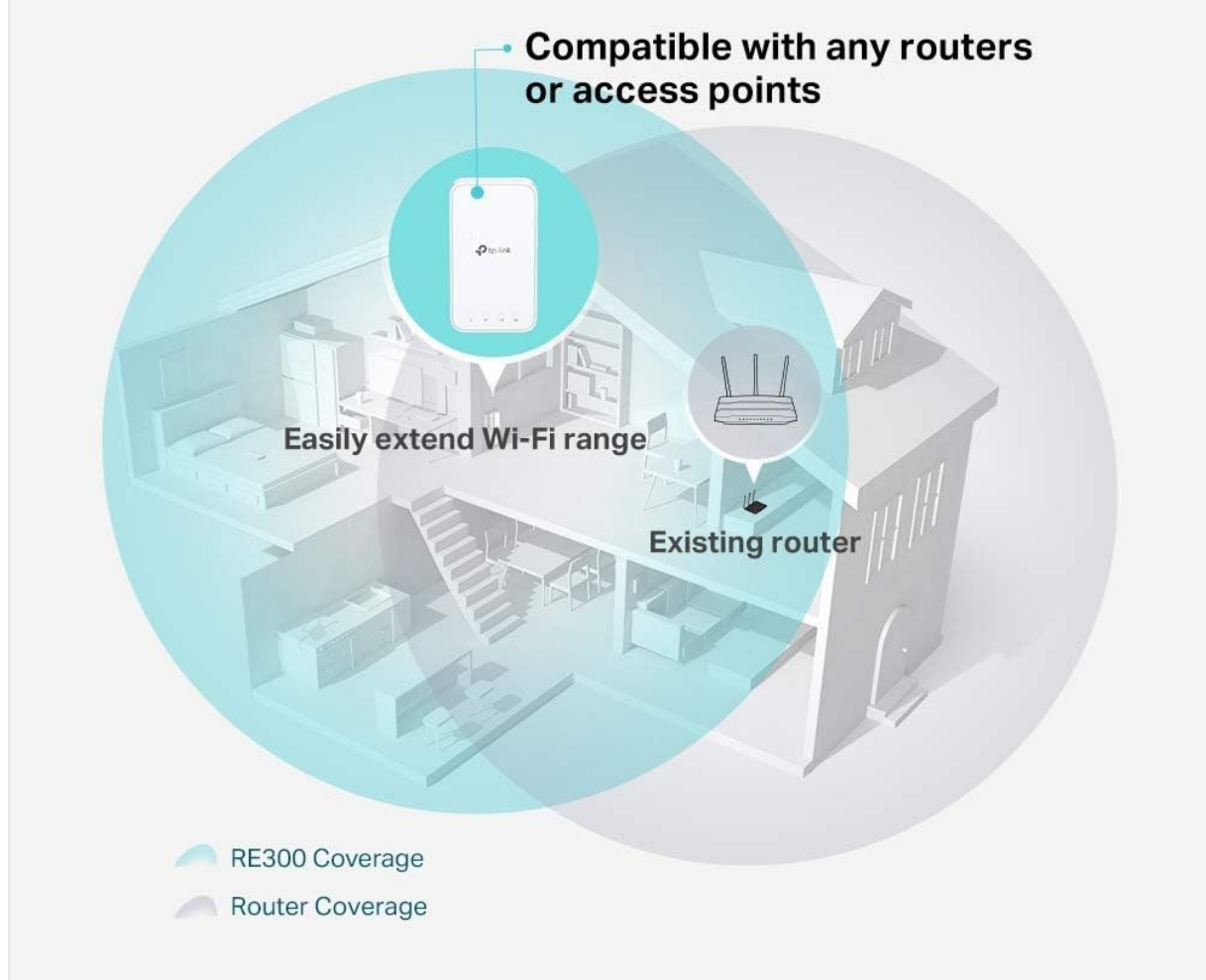


Image: The retail box of the TP-Link RE300 Mesh Wi-Fi Extender, highlighting its AC1200 dual-band capabilities and OneMesh support.

4. SETUP

The RE300 offers multiple convenient setup methods to get your Wi-Fi extended quickly.

4.1 Via the TP-Link Tether App (Recommended)

1. Download the TP-Link Tether app from the Apple App Store or Google Play.
2. Plug the RE300 into a power outlet near your router. Wait for the Power LED to turn solid white.
3. Launch the Tether app and log in with your TP-Link ID. If you don't have one, create it first.
4. Tap the '+' button in the app and select 'Range Extender'.
5. Follow the in-app instructions to complete the setup. The LED should turn solid white, indicating a successful connection to your router.

Secure One-Touch Connection for Easy Setup



Image: Diagram showing how to set up the RE300 using the WPS button on both the router and the extender for a secure one-touch connection.

4.2 Via the WPS Button

1. Plug the extender into a power outlet next to your router. Wait for the Power LED to turn solid white.
2. Press the WPS button on your router.
3. Within 2 minutes, press the WPS button on the extender. The Signal LED should change from blinking to solid white, indicating a successful connection.
4. If the extender connects to a dual-band router, repeat steps 1 and 2 to connect to the other band.



Image: Close-up of the TP-Link RE300 showing the WPS button on its side, used for quick setup.

4.3 Via a Web Browser

1. Connect your computer or smartphone to the extender's network (e.g., TP-Link_Extender).
2. Visit <http://tplinkrepeater.net> or <http://192.168.0.254> in a web browser. Create a password to log in.
3. Follow the web instructions to complete the setup.

4.4 Relocate for Optimal Placement

After initial setup, plug the extender in an outlet halfway between your router and the Wi-Fi dead zone. The location you choose should be within the range of your router. Wait for about 2 minutes until the Signal LED turns solid white. If it doesn't, relocate the extender closer to the router to achieve better signal quality.

High Speed Mode



Image: The TP-Link RE300 showing its smart signal indicator. A white light indicates a strong signal, while a red light indicates a weak signal (too far from the router).

5. OPERATING INSTRUCTIONS

Once set up, the RE300 will automatically extend your Wi-Fi network. Devices in the extended area will connect to the extender's network name (SSID) which is typically your main network's name followed by "_EXT" or a new name you configured during setup. For OneMesh compatible routers, the extender will join your existing mesh network, providing a single unified Wi-Fi name for seamless roaming.

5.1 Dual-Band Connectivity

The RE300 operates on both 2.4 GHz and 5 GHz bands. The 2.4 GHz band offers wider coverage, while the 5 GHz band provides faster speeds and is ideal for bandwidth-intensive tasks like HD streaming and online gaming. Your devices will automatically connect to the most suitable band for optimal performance.

Create a Mesh Network



(Currently only the Archer A7 is compatible for OneMesh™)

Image: Illustrates the dual-band Wi-Fi capabilities of the RE300, showing 2.4 GHz (300 Mbps) and 5 GHz (867 Mbps) bands, supporting up to 32 devices including phones, pads, laptops, smart bulbs, smart cameras, and smart plugs.

5.2 OneMesh for Seamless Roaming

If you have a TP-Link OneMesh compatible router, the RE300 can join the OneMesh network. This creates a single, unified Wi-Fi network name (SSID) across your entire home, allowing your devices to automatically switch to the strongest Wi-Fi signal as you move, without interruptions.

OneMesh Router + Range Extender for Seamless Roaming



Smart Roaming



One WiFi Name



Easy Creation



Unified Management



Unified SSID

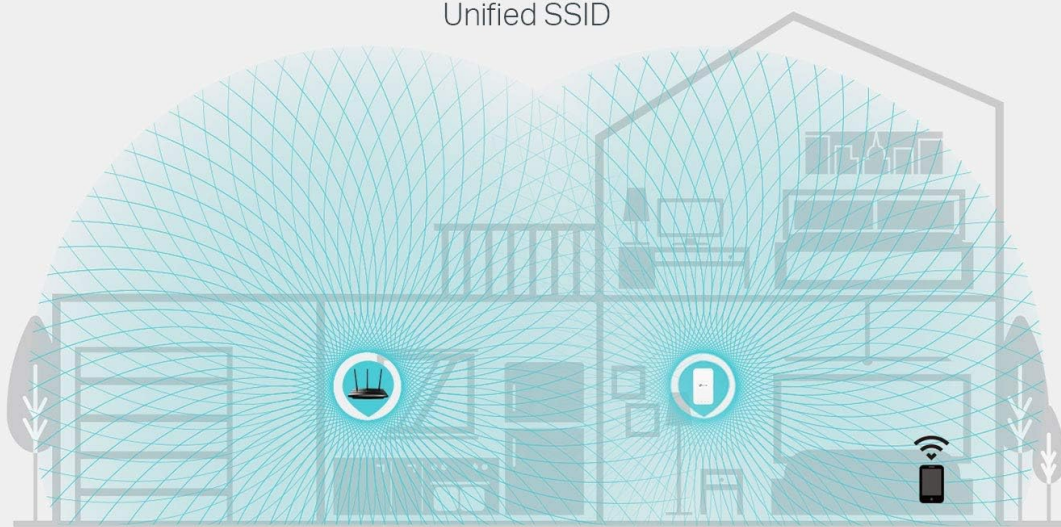


Image: Diagram showing the benefits of OneMesh technology: Smart Roaming, One Wi-Fi Name, Easy Creation, and Unified Management, creating a whole-home Wi-Fi experience.

5.3 High-Speed Mode

Activate High-Speed Mode via the Tether app or web interface to dedicate one Wi-Fi band (e.g., 5 GHz) for backhaul connection to the router and the other band (e.g., 2.4 GHz) for client devices. This optimizes performance for demanding applications.

Universal Compatibility

Expand & strengthen your network with the RE300 & any router or access point



Any existing router like
Archer A7



Image: Illustration of High Speed Mode, showing 100% boosted speed by utilizing both 2.4 GHz and 5 GHz bands for optimized data flow between the router, extender, and client devices.

5.4 Access Point Mode

The RE300 can also function as a wireless access point. Connect an Ethernet cable from your main router to the Ethernet port on the RE300. The extender will then broadcast a new Wi-Fi network, converting your wired connection into a wireless one.

6. MAINTENANCE

- **Firmware Updates:** Regularly check for and install firmware updates via the TP-Link Tether app or the web management interface to ensure optimal performance and security.
- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.
- **Placement:** Ensure the extender is placed in a well-ventilated area, away from obstructions, heat sources, and large metal objects that could interfere with the Wi-Fi signal.

7. TROUBLESHOOTING

- **No Internet Access:**

- Check the Signal LED on the extender. If it's red, relocate the extender closer to your router.
 - Ensure your main router is working correctly and has internet access.
 - Verify that the extender is connected to the correct Wi-Fi network (SSID) of your router.
- **Weak Signal or Frequent Disconnections:**
 - Use the Smart Signal Indicator to find an optimal location for the extender.
 - Reduce interference by moving the extender away from other electronic devices.
 - Update the extender's firmware to the latest version.
- **Cannot Access Web Management Page:**
 - Ensure your device is connected to the extender's network.
 - Verify that you are using the correct address: <http://tplinkrepeater.net> or <http://192.168.0.254>.
 - Try clearing your browser's cache or using a different browser.
- **Factory Reset:** If issues persist, you can perform a factory reset by pressing the Reset button (a small pinhole) on the side of the extender for 1 second while it is powered on. This will restore the extender to its default settings.

8. SPECIFICATIONS

Attribute	Value
Brand	TP-Link
Model	RE300
Wireless Communication Standard	802.11ac
Data Transfer Rate	1200 Megabits Per Second
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
Compatible Devices	Router
Range	150 feet
Connector Type	RJ45 (Ethernet Port)
Item Weight	6.4 Ounces
Color	White

9. WARRANTY AND SUPPORT

The TP-Link RE300 comes with a 90-day limited warranty. TP-Link offers free 24/7 technical support. If you experience any trouble during or after setup, please contact TP-Link support for assistance. For more details, please refer to the user guide at <https://www.tp-link.com/support/download>.

10. PRODUCT VIDEOS

TP-Link RE330 AC1200Mbps WiFi Extender - Honest Review

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Video: A detailed review of the TP-Link RE330 AC1200Mbps WiFi Extender, covering its features, setup process, and performance in extending Wi-Fi coverage to dead zones. The reviewer demonstrates the device's dual-band capabilities and ease of use with the Tether app.

Easy and Affordable Solution for Bad Internet Areas at Home

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Video: This video showcases the TP-Link RE300 as an easy and affordable solution to improve internet connectivity in areas with poor Wi-Fi signal. It highlights the simple plug-and-play installation and its effectiveness in boosting Wi-Fi coverage.

I already have 4 of them! - TPLink AC1200 Range Extender

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Video: A user review expressing high satisfaction with the TP-Link AC1200 Range Extender, noting its reliability and ease of use. The reviewer mentions owning multiple units to ensure full Wi-Fi coverage throughout their large home.

should you buy this ?

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Video: A concise review of the TP-Link RE300, highlighting its effectiveness in extending Wi-Fi signal to previously uncovered areas. The video provides a quick overview of its benefits for users considering purchasing a range extender.