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TP-Link RE550

TP-Link AC1900 WiFi Range Extender RE550 User Manual

Model: RE550 | Brand: TP-Link

1. INTRODUCTION AND OVERVIEW

The TP-Link AC1900 Wi-Fi Range Extender RE550 is designed to expand your existing Wi-Fi coverage, eliminating dead zones and providing a stable network experience throughout your home or office. It wirelessly connects to your current router and amplifies its signal, offering dual-band speeds and reliable connections for multiple devices. The RE550 is EasyMesh-compatible, allowing for seamless whole-home coverage under a single Wi-Fi name. It also features a Gigabit Ethernet port for wired connections to devices like smart TVs, gaming consoles, and PCs.



Figure 1: TP-Link AC1900 WiFi Range Extender RE550 with antennas extended.

2. KEY FEATURES

- **Dual-Band Wi-Fi Extender:** Extends your home network with speeds up to 1300 Mbps (5 GHz) and 600 Mbps (2.4 GHz).
- **Maximized Coverage:** Three adjustable external antennas provide optimal Wi-Fi coverage up to 2800 sq. ft., supporting up to 32 devices.
- **EasyMesh-Compatible:** Seamlessly expands your network for whole-home mesh connectivity when connected to any EasyMesh-compatible router.
- **Gigabit Ethernet Port:** Provides ultra-reliable wired connectivity for devices requiring high-speed access.
- **Smart Adaptive Roaming:** Automatically connects devices to the strongest signal for uninterrupted coverage.
- **Access Point (AP) Mode:** Transforms any wired connection into a powerful Wi-Fi hotspot.
- **Easy Setup:** Quick and easy setup and management via the TP-Link Tether app (Android, iOS).
- **Universal Compatibility:** Works with almost all Wi-Fi-enabled devices and routers/access points.



Figure 2: High Performance Dual-Band Wi-Fi up to 1900 Mbps, showing 1300 Mbps on 5GHz and 600 Mbps on 2.4GHz.

3. WHAT'S IN THE BOX

- AC1900 Wi-Fi Range Extender RE550
- Quick Installation Guide

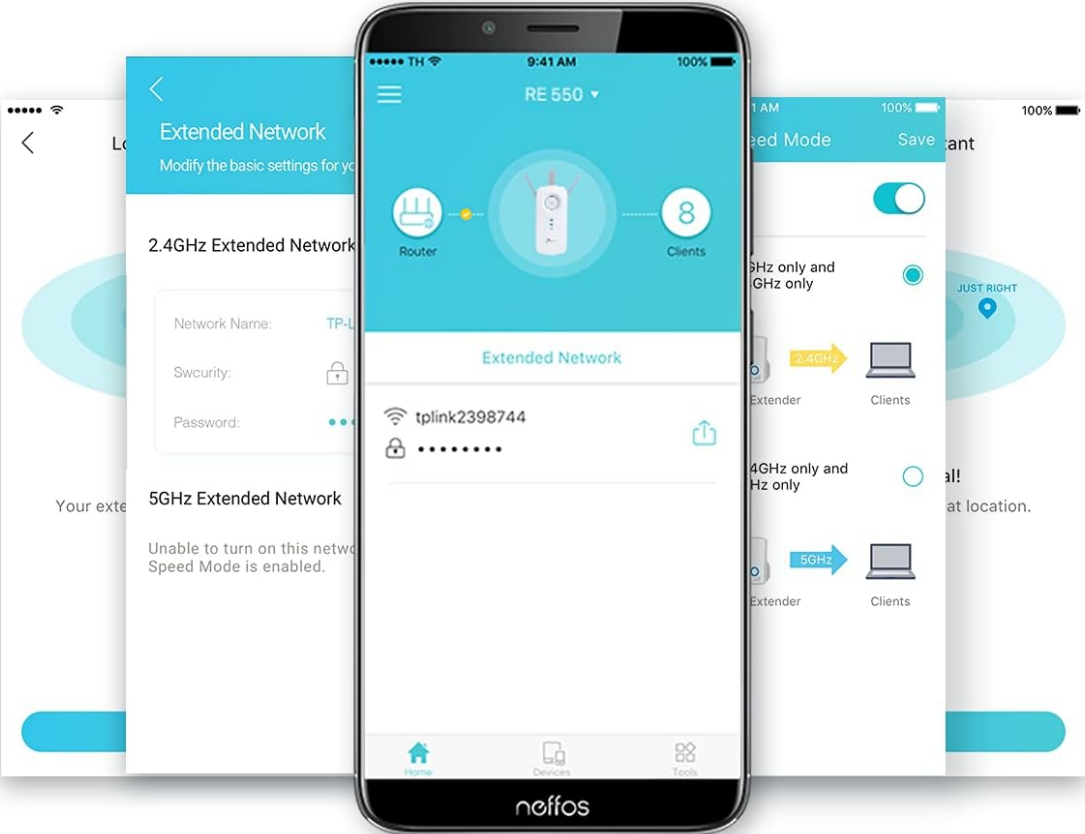
4. SETUP GUIDE

4.1. Initial Placement

Plug the RE550 into a power outlet halfway between your router and the Wi-Fi dead zone. The intelligent signal indicator will help you find the optimal location for the best Wi-Fi connection.

Control At Your Fingertips

Set up and manage your Wi-Fi network with the TP-Link Tether app.






  

Figure 3: Intelligent Signal Indicator showing white for strong signal and red for weak signal (too far from router).

4.2. Setup via TP-Link Tether App (Recommended)

1. Download the TP-Link Tether app from the App Store (iOS) or Google Play (Android). You can find more information about the app [here](#).
2. Open the Tether app and log in with your TP-Link ID. If you don't have one, create one.
3. Tap the + icon in the top right corner and select **Range Extender**.
4. Follow the on-screen instructions to connect your RE550 to your existing Wi-Fi network.

Intelligent Signal Indicator Helps You Find the Best Location for Optimal Wi-Fi Coverage



Figure 4: Control your Wi-Fi network at your fingertips with the TP-Link Tether app.

4.3. Setup via Web Browser

1. Plug the extender into a power outlet near your router.
2. Connect your computer or mobile device to the extender's Wi-Fi network (e.g., "TP-Link_Extender").
3. Open a web browser and type <http://tplinkrepeater.net> or <http://192.168.0.254> in the address bar.
4. Create a login password.
5. Follow the on-screen instructions to select your host Wi-Fi network and extend it.

5. OPERATING THE EXTENDER

Once set up, the RE550 will automatically extend your Wi-Fi signal. The LED indicators on the front of the device provide status information:

- **Signal LED:** Indicates the strength of the signal received from your router. A white light indicates a strong connection, while a red light suggests the extender is too far from the router.

- **2.4GHz/5GHz LEDs:** Indicate whether the respective Wi-Fi bands are active.
- **Power LED:** Indicates if the extender is powered on.

For optimal performance, ensure the Signal LED is white. If it's red, try moving the extender closer to your main router.



Figure 5: Front view of the RE550 showing 2.4GHz, 5GHz, and Power LEDs.

6. EASYMESH COMPATIBILITY

The RE550 is EasyMesh-compatible, allowing it to seamlessly integrate with any EasyMesh-compatible router or mesh Wi-Fi system. This creates a unified network under a single Wi-Fi name, enabling smart roaming for your devices as you move throughout your home. This means your devices will automatically connect to the strongest Wi-Fi signal without manual switching, ensuring uninterrupted coverage and optimal performance.



Figure 6: Diagram illustrating EasyMesh whole-home Wi-Fi coverage with a router and range extender.

7. MAINTENANCE

- **Firmware Updates:** Regularly check for and install firmware updates via the Tether app or web 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.
- **Ventilation:** Ensure the extender is placed in a well-ventilated area to prevent overheating. Do not block the ventilation holes.
- **Power Cycle:** If you experience connectivity issues, try power cycling the extender (unplug it, wait 10 seconds, then plug it back in).

8. TROUBLESHOOTING

- **No Internet Access:**
 - a. Check the Signal LED on the extender. If it's red, move the extender closer to your router.
 - b. Ensure your main router has internet access.
 - c. Restart both your router and the extender.
- **Slow Speeds:**
 - a. While extenders improve coverage, they do not directly increase internet speed. Speed is limited by your main router and ISP.
 - b. Ensure the extender is placed in an optimal location (white Signal LED).
 - c. Minimize interference from other electronic devices.
 - d. If using the 5GHz band, ensure your devices support it and are within optimal range, as 5GHz has shorter range but higher speed.
- **Cannot Connect to Extender's Wi-Fi:**
 - a. Verify you are selecting the correct extended network name (usually your router's SSID with "_EXT" appended).
 - b. Ensure you are using the correct Wi-Fi password.
 - c. Try resetting the extender to factory defaults (press the Reset button for 1 second) and reconfigure it.

9. SPECIFICATIONS

Feature	Value
Product Dimensions	6.4 x 3 x 2.6 inches
Item Weight	8.2 ounces
Item Model Number	RE550
Wireless Communication Standard	802.11n, 802.11b, 802.11a, 802.11g, 802.11ac
Data Transfer Rate	1900 Megabits Per Second
Frequency Band Class	Dual-Band
Special Feature	Access Point Mode
Manufacturer	TP-Link
Country of Origin	Vietnam

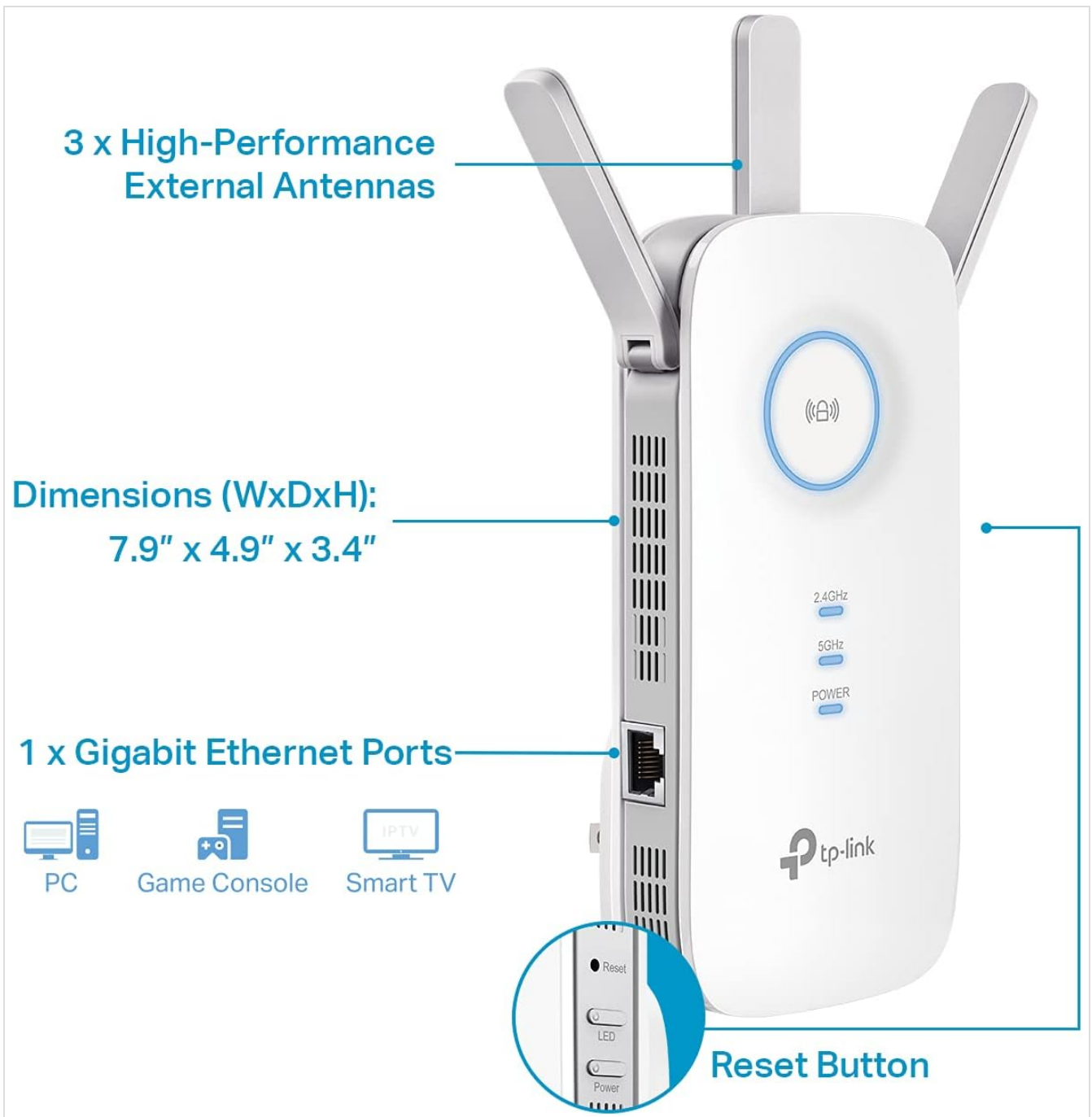


Figure 7: Side view of the RE550 highlighting dimensions, Gigabit Ethernet port, and reset button.

10. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official TP-Link website or the User Guide included with your product. The User Guide (PDF) can also be accessed online via this link: [TP-Link RE550 User Guide](#).

TP-Link is a signatory of the U.S. Cybersecurity and Infrastructure Security Agency's (CISA) Secure-by-Design pledge, ensuring advanced security as a core requirement for their devices.