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> TP-Link RE603X-RB AX1750 Wi-Fi 6 Range Extender User Manual

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Model: RE603X-RB

1. PRODUCT OVERVIEW

The TP-Link RE603X-RB AX1750 Wi-Fi 6 Range Extender is designed to expand your existing Wi-Fi coverage, eliminate dead zones, and provide faster, more reliable wireless connections throughout your home or office. Equipped with the latest Wi-Fi 6 technology, it offers enhanced speed, greater capacity, and reduced network congestion, ensuring a seamless online experience for all your devices.



Front view of the RE603X-RB, showing the TP-Link logo, power

indicator, Wi-Fi signal strength indicators for 2.4GHz and 5GHz bands, and two external antennas.



Side view of the RE603X-RB, highlighting the Gigabit Ethernet Port for wired connections and ventilation grilles.



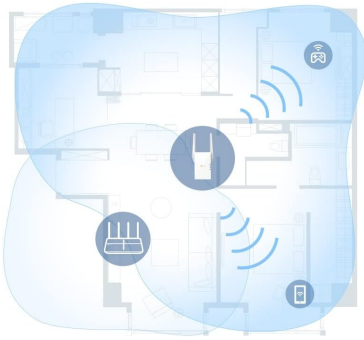
The RE603X-RB plugged into a wall outlet, demonstrating its compact design and how it integrates into a home environment.

2. KEY FEATURES

- **Wi-Fi 6 Technology:** Utilizes the latest wireless standard (802.11ax) for faster speeds, greater capacity, and reduced network congestion.
- **AX1750 Dual-Band Wi-Fi:** Delivers combined speeds of up to 1750 Mbps (1201 Mbps on 5GHz and 574 Mbps on 2.4GHz).

- **OneMesh™ Compatibility:** Creates a seamless Mesh network when connected to a OneMesh router, providing whole-home coverage with a single Wi-Fi name.
- **Gigabit Ethernet Port:** Offers a high-speed wired connection for devices like smart TVs, gaming consoles, or PCs.
- **Intelligent Signal Light:** Helps users find the optimal location for the extender by indicating the signal strength from the router.
- **TP-LINK Tether App:** Enables easy setup and network management from any iOS or Android mobile device.

WiFi Dead Zone Killer



This diagram illustrates how the range extender helps eliminate Wi-Fi dead zones by extending the wireless signal to areas with poor or no coverage.

AX1800 Wi-Fi 6 Speed



Higher Speed



Larger Capacity



Ultra-Low Latency



An infographic detailing the AX1800 Wi-Fi 6 speeds, showing 1201 Mbps on the 5GHz band and 574 Mbps on the 2.4GHz band, highlighting higher speed, larger capacity, and ultra-low latency.

OneMesh™ Router + Range Extender



This diagram demonstrates the OneMesh™ system, where a compatible router and the range extender work together to provide seamless whole-home Wi-Fi

3. PACKAGE CONTENTS

Please check that all items are present and in good condition:

- TP-Link RE603X-RB AX1750 Wi-Fi 6 Range Extender
- Quick Installation Guide
- Power Adapter

4. SETUP GUIDE

There are two primary methods to set up your RE603X-RB range extender: using the WPS button or via the TP-Link Tether app.

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

1. **Power On:** Plug the extender into an electrical outlet near your router. Wait for the Power LED to turn solid blue.
2. **Press WPS on Router:** Press the WPS button on your main router. (If your router has separate WPS buttons for 2.4GHz and 5GHz, press both sequentially).
3. **Press WPS on Extender:** Within two minutes, press the WPS button on your RE603X-RB extender.
4. **Wait for Connection:** The Signal LED on the extender should turn solid blue, indicating a successful connection. If not, try again or use the Tether app method.
5. **Relocate:** Unplug the extender and move it to a location roughly halfway between your router and the Wi-Fi dead zone. Ensure the Signal LED is solid blue for optimal performance.

4.2. Method 2: Using the TP-Link Tether App (Recommended for advanced setup and management)

1. **Download App:** Download the TP-Link Tether app from the Apple App Store or Google Play Store on your smartphone or tablet.
2. **Power On:** Plug the extender into an electrical outlet near your router. Wait for the Power LED to turn solid blue.
3. **Connect to Extender's Wi-Fi:** Go to your device's Wi-Fi settings and connect to the extender's default Wi-Fi network (e.g., "TP-Link_Extender" or "TP-Link_Extender_XXXX").
4. **Launch Tether App:** Open the Tether app and follow the on-screen instructions to set up the extender. You will be prompted to create a TP-Link ID if you don't have one.
5. **Select Network:** Choose the Wi-Fi network you wish to extend and enter its password.
6. **Relocate:** Once configured, unplug the extender and move it to a location roughly halfway between your router and the Wi-Fi dead zone. Ensure the Signal LED is solid blue for optimal performance.

4.3. OneMesh™ Setup

If you have a TP-Link OneMesh™ compatible router, the RE603X-RB can create a unified mesh network for seamless roaming. After initial setup (using either WPS or Tether app), the extender will automatically join the OneMesh network if your router supports it and has OneMesh enabled. Ensure your router's firmware is up to date.

5. OPERATING THE EXTENDER

5.1. Understanding the Signal Light

The Intelligent Signal Light helps you determine the best placement for your extender:

- **Solid Blue:** Good connection. The extender is in an optimal location.
- **Solid Red:** Poor connection. Relocate the extender closer to your router.
- **Off:** No connection or the extender is not powered on.

5.2. Using the Gigabit Ethernet Port

The RE603X-RB includes a Gigabit Ethernet port. You can connect a wired device such as a smart TV, gaming console, desktop computer, or network-attached storage (NAS) to this port using an Ethernet cable. This provides a stable and high-speed wired connection to your extended network.

6. MAINTENANCE

- **Firmware Updates:** Regularly check for and install firmware updates via the Tether app or TP-Link website to ensure optimal performance and security.
- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or aerosols.
- **Placement:** Ensure the extender is placed in a well-ventilated area, away from direct sunlight, heat sources, and obstructions that could block Wi-Fi signals.
- **Restart:** If you experience persistent issues, try restarting the extender by unplugging it from the power outlet for 10 seconds and then plugging it back in.

7. TROUBLESHOOTING

7.1. Extender Cannot Connect to Router

- **Check WPS:** Ensure you pressed the WPS button on your router and then on the extender within two minutes.
- **Router Compatibility:** Some older routers may not support WPS or have a different WPS implementation. Try setting up via the Tether app.
- **Router Settings:** Check your router's wireless security settings. Ensure WPA2-PSK (AES) is enabled.
- **Distance:** Place the extender closer to the router during initial setup.

7.2. Poor Signal Strength After Relocation

- **Signal Light:** Observe the Signal LED on the extender. If it's red, move the extender closer to your router until it turns solid blue.
- **Obstacles:** Walls, floors, and large metal objects can degrade Wi-Fi signals. Try to place the extender in a clear line of sight to the router if possible.
- **Interference:** Other electronic devices (microwaves, cordless phones) can cause interference. Keep the extender away from such devices.

7.3. Extended Network Name (SSID) Not Visible

- **Power Cycle:** Unplug and replug the extender.
- **Reset:** If issues persist, perform a factory reset on the extender (usually a small pinhole button) and reconfigure it.

8. SPECIFICATIONS

Feature	Detail
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Model	RE603X-RB
Wireless Standard	IEEE 802.11ax/ac/n/a 5 GHz, IEEE 802.11ax/n/b/g 2.4 GHz
Data Transfer Rate	1201 Mbps (5 GHz), 574 Mbps (2.4 GHz)
Antennas	2 External Antennas
Ethernet Port	1 Gigabit Ethernet Port (RJ45)
Dimensions (W x D x H)	Approx. 14.17 x 8.07 x 4.76 inches (Package Dimensions)
Item Weight	14.9 ounces
Power Consumption	(Not specified in input, general placeholder)
Security	WPA-PSK/WPA2-PSK encryption

9. WARRANTY AND SUPPORT

This TP-Link RE603X-RB AX1750 Wi-Fi 6 Range Extender is a certified renewed product. For specific warranty details, please refer to the documentation provided with your purchase or contact the retailer directly. TP-Link provides technical support for its products. For further assistance, including troubleshooting and firmware updates, please visit the official TP-Link support website or contact their customer service.

TP-Link Support Website: www.tp-link.com/support