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TP-Link RE653BE

TP-Link BE10000 Wi-Fi 7 Range Extender RE653BE User Manual

Model: RE653BE

1. Introduction

The TP-Link BE10000 Wi-Fi 7 Range Extender RE653BE is designed to expand your existing Wi-Fi network coverage, eliminating dead zones and providing a stable wireless connection throughout your home or office. This device supports the latest Wi-Fi 7 standard, offering tri-band connectivity (2.4 GHz, 5 GHz, and 6 GHz) and advanced features such as Multi-Link Operation (MLO) and 320 MHz channels for enhanced performance. It also includes a 2.5 Gbps Ethernet port for high-speed wired connections and supports EasyMesh for seamless whole-home Wi-Fi.

2. Safety Information

- Do not expose the device to water, fire, humidity, or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact TP-Link support.
- Do not use the device where wireless devices are not allowed.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Plug the range extender into an electrical outlet only.

3. Package Contents

Verify that your package contains the following items:

- TP-Link BE10000 Wi-Fi 7 Range Extender RE653BE
- Quick Installation Guide

4. Product Overview

The RE653BE features a compact design that plugs directly into a wall outlet. It includes LED indicators to show its status and active bands, along with a 2.5 Gbps Ethernet port for wired connections.

2.4G
5G
6G
tp-link

Figure 4.1: Front view of the TP-Link RE653BE Wi-Fi 7 Range Extender. The device is plugged into a wall outlet, displaying its LED indicators and the TP-Link logo.

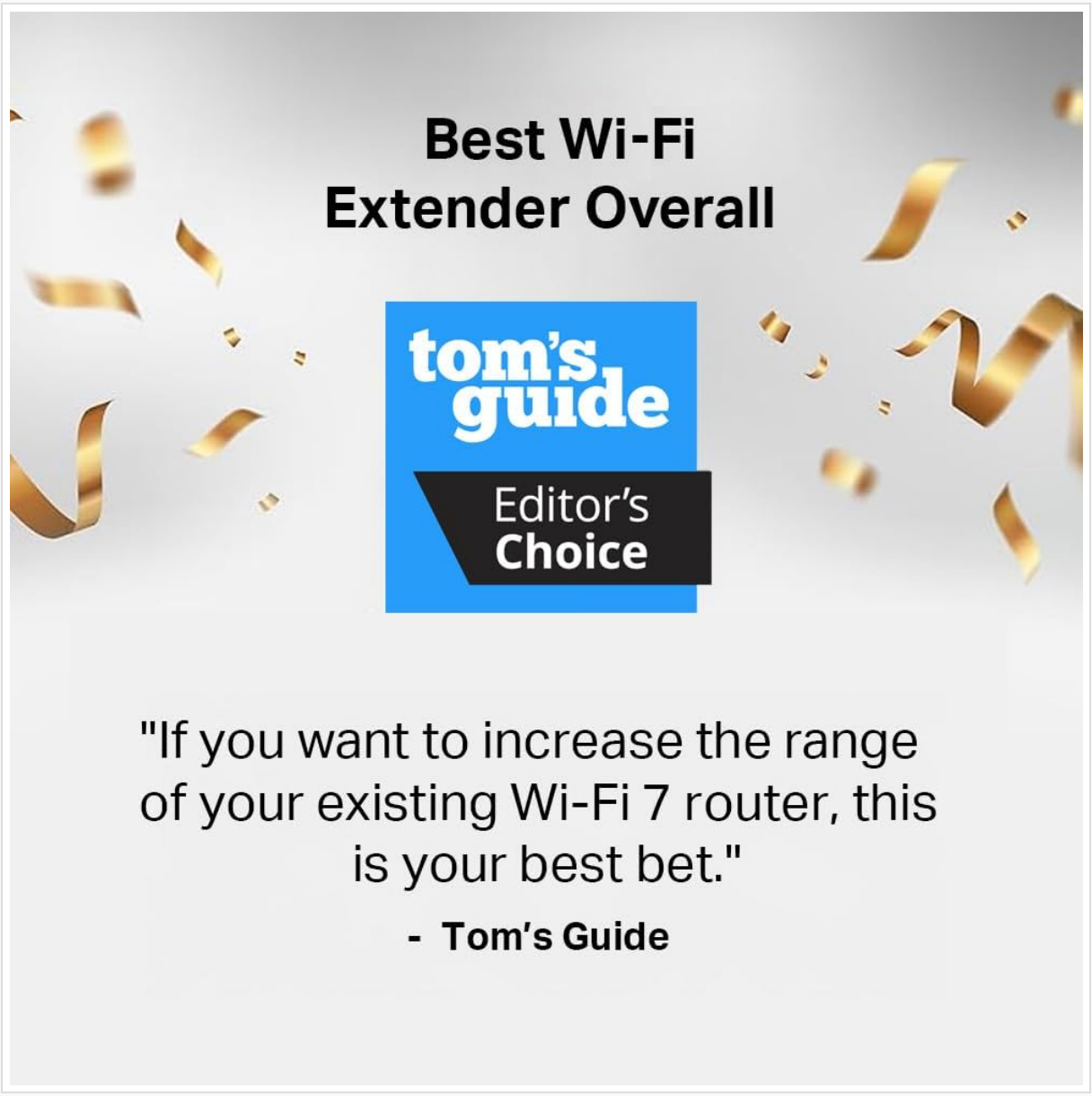

Figure 4.2: Side view of the TP-Link RE653BE, highlighting the 2.5 Gbps Ethernet port, WPS button, and Reset button.

LED Indicators

- **Power LED:** Indicates the power status of the extender.
- **Signal LEDs (2.4G, 5G, 6G):** Indicate the signal strength received from the main router for each band. More illuminated LEDs mean a stronger connection.

Buttons and Ports

- **WPS Button:** Used for quick setup with a WPS-enabled router.

- **Reset Button:** Used to restore the extender to factory default settings.
- **2.5 Gbps Ethernet Port:** Provides a high-speed wired connection for devices like PCs, gaming consoles, or smart TVs.

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Video 4.1: Product Introduction for RE653BE. This video provides a brief overview of the TP-Link RE653BE Wi-Fi 7 Range Extender, showcasing its features and design.

5. Setup

There are two primary methods to set up your RE653BE Range Extender: using the WPS button or via the TP-Link Tether app.

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

1. **Plug In:** Plug the extender into an electrical outlet near your main router.
2. **Press WPS on Router:** Press the WPS button on your main router. Refer to your router's manual for the exact location.
3. **Press WPS on Extender:** Within two minutes, press the WPS button on your RE653BE extender. The Signal LEDs on the extender should begin to flash.
4. **Relocate:** Once the Signal LEDs become solid blue, the connection is successful. Unplug the extender and relocate it to a suitable location between your router and the Wi-Fi dead zone. Ensure the Signal LEDs remain solid blue for optimal performance.

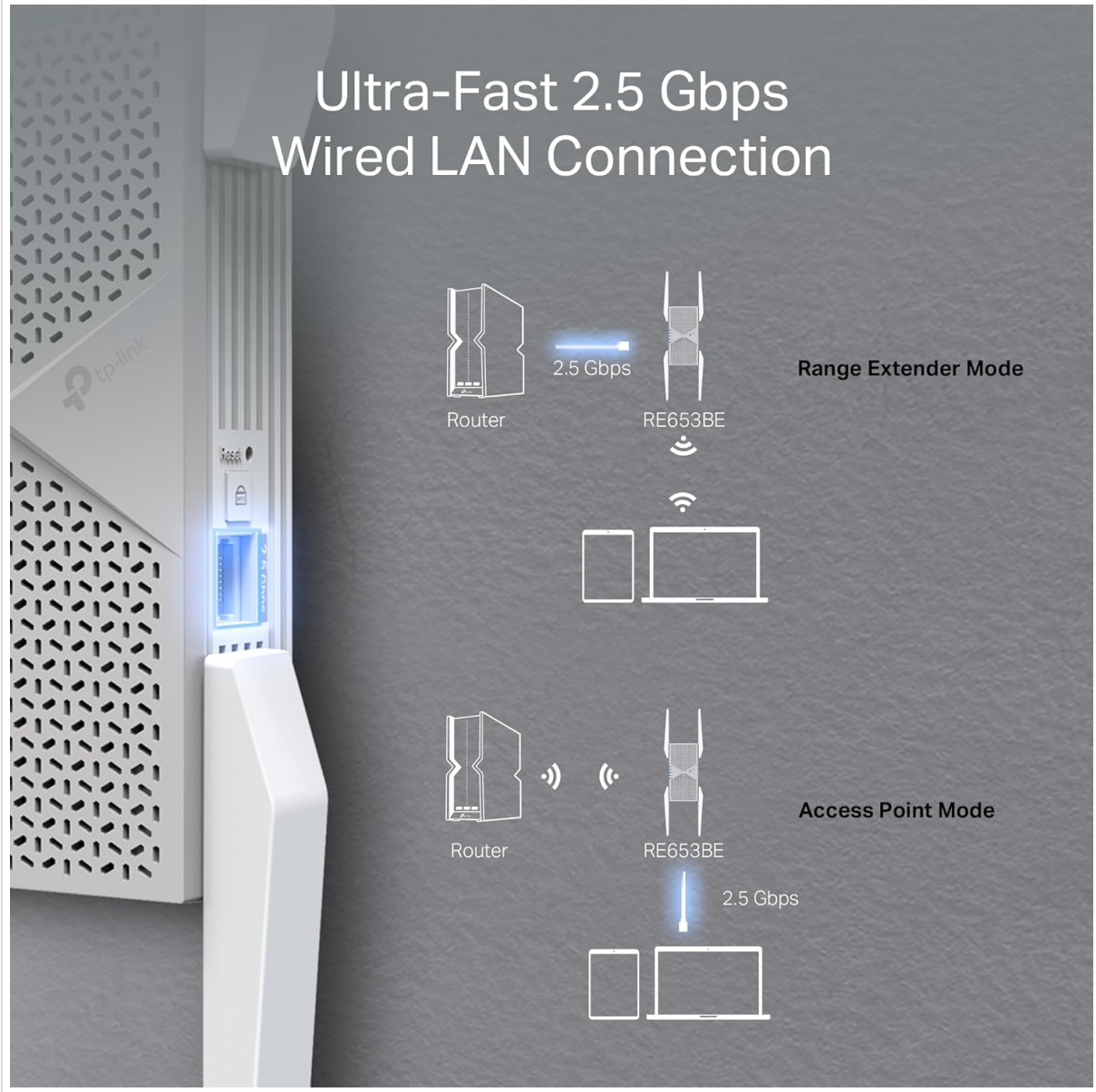

Figure 5.1: Easy One-Click Setup using the WPS button.

Method 2: Using the TP-Link Tether App

1. **Download Tether App:** Download the TP-Link Tether app from the App Store or Google Play. You can scan the QR code below or visit tp-link.com/app/qrcode/?app=tether.
2. **Plug In:** Plug the extender into an electrical outlet near your main router.
3. **Connect to Extender's Wi-Fi:** Connect your mobile device to the extender's Wi-Fi network (e.g., TP-Link_Extender_XXXX).
4. **Follow App Instructions:** Open the Tether app and follow the on-screen instructions to complete the setup.
5. **Relocate:** Once setup is complete, unplug the extender and relocate it to a suitable location between your router and the Wi-Fi dead zone. Ensure the Signal LEDs remain solid blue for optimal performance.

Figure 5.2: Setup using the TP-Link Tether App.

6. Operating Modes

The RE653BE can operate in two modes:

Range Extender Mode

In this mode, the RE653BE extends the wireless signal of your existing router, providing increased coverage. Devices connect wirelessly to the extender, which then relays data to and from the main router.

Figure 6.1: Range Extender Mode (top) and Access Point Mode (bottom) connection diagrams.

Access Point Mode

In Access Point (AP) mode, the RE653BE connects to your router via an Ethernet cable and transforms your wired network into a wireless one. This is ideal for extending Wi-Fi coverage in areas where running an Ethernet cable is feasible, providing a more stable and potentially faster connection than wireless extension.

7. Maintenance

- **Firmware Updates:** Regularly check for and install firmware updates via the TP-Link Tether app or TP-Link website to ensure optimal performance and security.
- **Placement:** Ensure the extender is placed in an open area, away from obstructions and sources of interference (e.g., microwaves, cordless phones).
- **Cleaning:** Clean the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.

8. Troubleshooting

No Internet Access After Setup

- Verify that your main router is working correctly and has internet access.
- Check the Signal LEDs on the extender. If they are not solid blue, try relocating the extender closer to the router or re-run the setup process.

- Ensure your devices are connected to the extender's network.

Poor Signal Strength

- Relocate the extender to a position that is roughly halfway between your router and the area with poor signal.
- Avoid placing the extender near large metal objects, thick walls, or other electronic devices that may cause interference.
- Adjust the extender's antennas for better reception.

Resetting the Extender

If the extender is not functioning as expected, you may need to reset it to factory default settings. With the extender powered on, use a pin to press and hold the Reset button for approximately 5 seconds until the LEDs flash.

9. Specifications

Feature	Detail
Model Number	RE653BE
Wireless Standard	802.11be (Wi-Fi 7), 802.11ax (Wi-Fi 6), 802.11ac (Wi-Fi 5), 802.11n, 802.11a/b/g
Data Transfer Rate	Up to 10000 Mbps (Tri-Band)
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Ethernet Port	1x 2.5 Gbps LAN Port
Special Features	Access Point Mode, LED Indicator, MU-MIMO, Remote Access, WiFi Mesh (EasyMesh)
Dimensions	4.2 x 1.5 x 6.3 inches (approximate)
Item Weight	15.2 ounces
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Humidity	10% to 90% non-condensing

10. Warranty and Support

For warranty information, technical support, and product registration, please visit the official TP-Link website or refer to the documentation included with your product. You can also visit the TP-Link Store on Amazon for additional resources.

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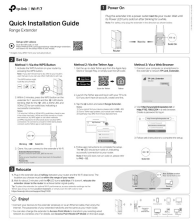
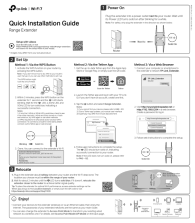
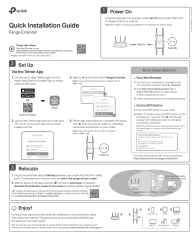
Related Documents - RE653BE

	TP-Link RE653BE/RE655BE Wi-Fi 7 Range Extender Quick Installation Guide Quick installation guide for TP-Link BE10000/BE11000 Tri-Band Wi-Fi 7 Range Extender (RE653BE/RE655BE). Learn how to set up your extender using WPS, the Tether App, or a web browser. Includes LED explanations, relocation tips, and troubleshooting.
	TP-Link Wi-Fi 7 Range Extender Quick Installation Guide A comprehensive guide to setting up and using your TP-Link Wi-Fi 7 Range Extender, covering power-on, connection methods (WPS, Tether App, Web Browser), optimal placement, LED indicators, Access Point Mode, EasyMesh compatibility, and troubleshooting FAQs.
	TP-Link RE815X AX5400 Tri-Band Wi-Fi 6 Range Extender Quick Installation Guide A concise guide to installing and setting up the TP-Link RE815X AX5400 Tri-Band Wi-Fi 6 Range Extender, covering power on, setup via Tether app, web browser, WPS button, and relocation tips.
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	TP-Link AC750 Mesh Wi-Fi Range Extender RE215: Features, Specs & Benefits Explore the TP-Link AC750 Mesh Wi-Fi Range Extender (RE215). Learn about its features like OneMesh™ compatibility, dual-band speeds up to 750 Mbps, Wi-Fi dead-zone elimination, easy setup, and detailed specifications for enhanced home Wi-Fi coverage.
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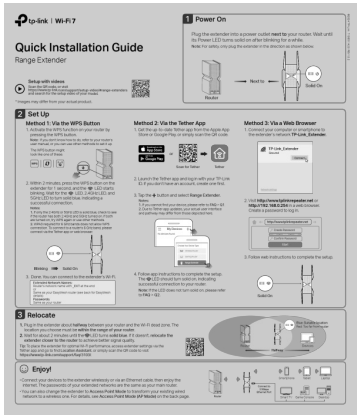

[TP-Link Wi-Fi 7 Range Extender Quick Installation Guide]

A comprehensive guide to setting up and using your TP-Link Wi-Fi 7 Range Extender, covering power-on, connection methods (WPS, Tether App, Web Browser), optimal placement, LED indicators, Access Point Mode, EasyMesh compatibility, and troubleshooting FAQs.

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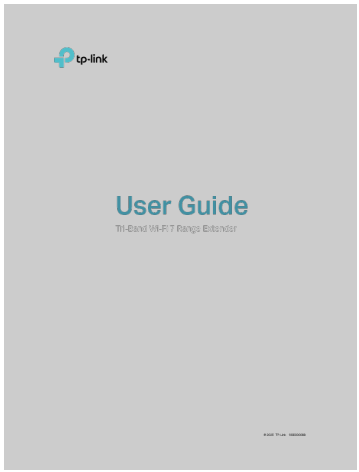

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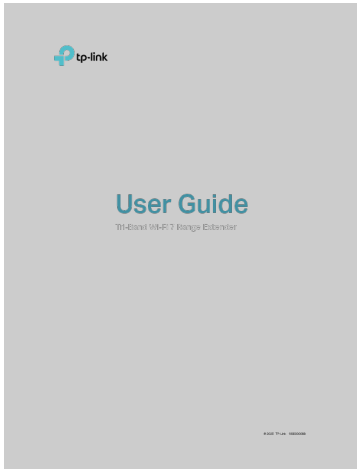

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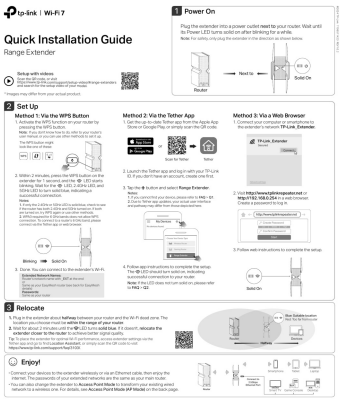

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