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TP-Link Archer BE550

TP-Link Tri-Band BE9300 WiFi 7 Router (Archer BE550) - User Manual

Model: Archer BE550

INTRODUCTION

The TP-Link Tri-Band BE9300 WiFi 7 Router (Archer BE550) is designed to provide high-speed, reliable wireless connectivity for your home or office network. Utilizing the latest Wi-Fi 7 technology, it offers enhanced performance for demanding applications such as 4K/8K streaming, AR/VR gaming, and large file downloads. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Archer BE550 router.

PACKAGE CONTENTS

Before you begin, please verify that all items are included in your package:

- Wi-Fi 7 Router Archer BE550
- Power Adapter
- RJ45 Ethernet Cable
- Quick Installation Guide

PHYSICAL OVERVIEW



Figure 1: Front view of the Archer BE550 router, showcasing its vertical design and LED indicators.

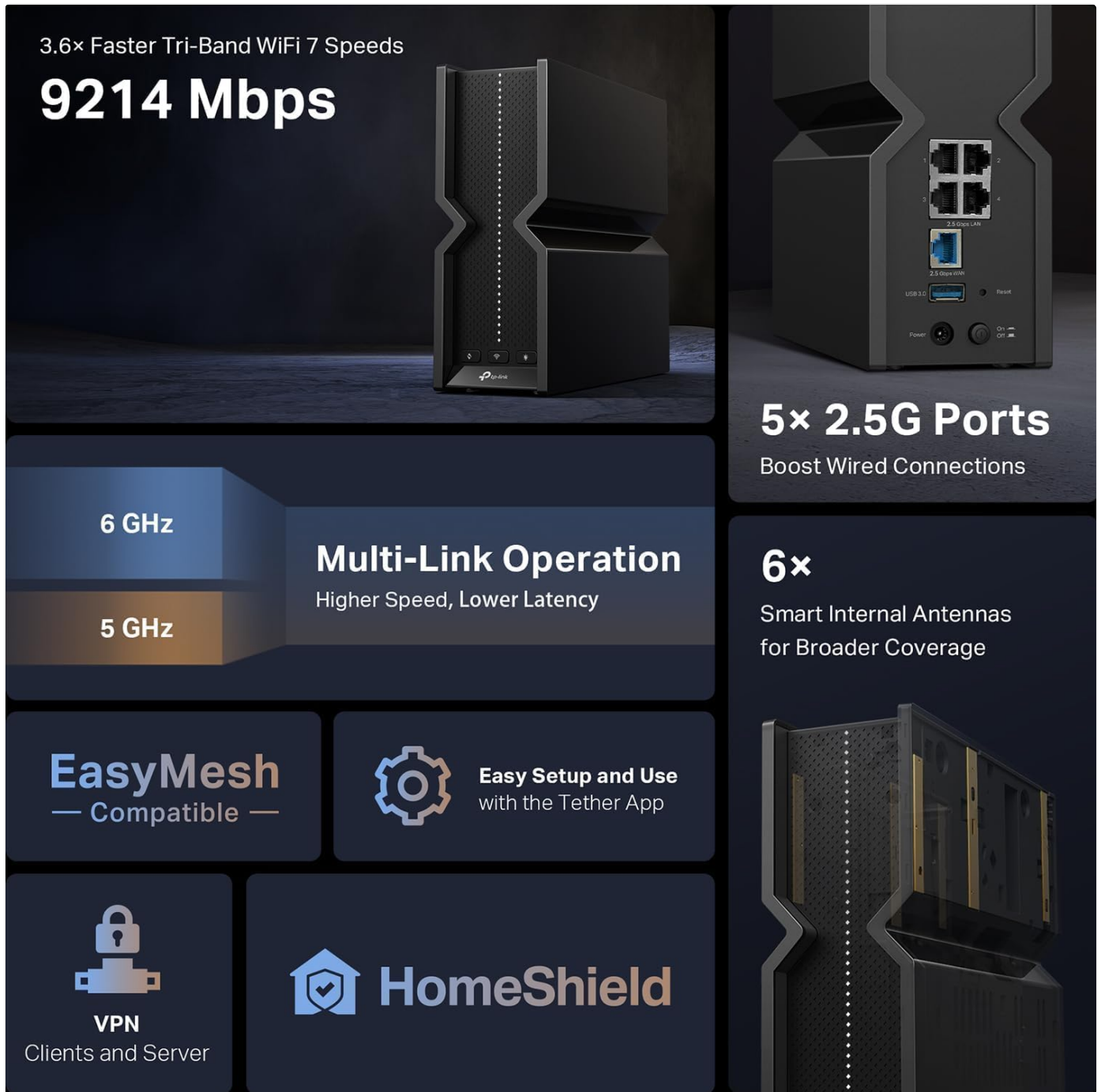


Figure 2: Rear view of the Archer BE550 router, highlighting the 2.5G WAN port, four 2.5G LAN ports, USB 3.0 port, and power connections.

The Archer BE550 features a sleek, vertical design with integrated antennas. The rear panel provides all necessary connectivity options for your network devices.

- **LED Indicators:** Status lights on the front panel indicate power, internet connection, and Wi-Fi status.
- **2.5G WAN Port:** Connects to your modem for internet access.
- **2.5G LAN Ports (x4):** Provides high-speed wired connections for devices like PCs, gaming consoles, or NAS.
- **USB 3.0 Port:** For connecting external storage devices to share files across your network.
- **Power On/Off Button:** Controls the power supply to the router.
- **Reset Button:** Used to restore the router to factory default settings.

Initial Hardware Connection

1. **Power Off:** Disconnect the power from your modem and router (if replacing an existing one).
2. **Connect Modem:** Connect one end of the provided Ethernet cable to your modem's LAN port and the other end to the 2.5G WAN port on your Archer BE550 router.
3. **Power On Router:** Connect the power adapter to the router and plug it into a power outlet. Turn on the router.
4. **Power On Modem:** Power on your modem and wait for it to fully boot up and establish an internet connection (usually indicated by stable LED lights on the modem).
5. **Connect Device:** Connect your computer or mobile device to the router. You can either connect via Wi-Fi using the default SSID and password printed on the router's label, or connect a computer directly to one of the router's 2.5G LAN ports using an Ethernet cable.

Configuration via TP-Link Tether App

The easiest way to set up and manage your Archer BE550 router is through the TP-Link Tether app.

1. **Download App:** Download the TP-Link Tether app from the Apple App Store or Google Play Store.
2. **Launch App:** Open the Tether app and log in with your TP-Link ID. If you don't have one, create one.
3. **Add Router:** Tap the "+" icon in the app and select "Router" to add your Archer BE550. Follow the on-screen instructions to complete the setup process. This will guide you through setting up your Wi-Fi network name (SSID) and password.

Alternatively, you can configure the router via a web browser by navigating to <http://tplinkwifi.net> or <http://192.168.0.1> (default IP address) and following the setup wizard.

OPERATING YOUR ROUTER

Wi-Fi 7 Technology

The Archer BE550 leverages cutting-edge Wi-Fi 7 (802.11be) technology to deliver superior performance:

- **Tri-Band Speeds:** Offers blazing-fast speeds across three bands: 5760 Mbps (6 GHz), 2880 Mbps (5 GHz), and 574 Mbps (2.4 GHz).
- **Multi-Link Operation (MLO):** Combines Wi-Fi bands for higher throughput, lower latency, and improved reliability, especially with compatible Wi-Fi 7 devices.
- **320 MHz Channels:** Doubles data capacity compared to 160 MHz channels in Wi-Fi 6E, boosting speed and efficiency.
- **4K-QAM:** Increases data density by 20% over 1024-QAM, improving speed and efficiency.
- **Multi-RUs:** Distributes data traffic across multiple channels, ensuring all devices experience maximum speed and reduced lag.

 **tp-link** Based in the U.S.A.

Our Commitment to Cybersecurity and Privacy



TP-Link is a signatory of the U.S. Cybersecurity and Infrastructure Security Agency's (CISA) Secure-by-Design pledge.

This device is designed, built, and maintained with advanced security as a core requirement.

Learn more at: www.cisa.gov/securebydesign



HomeShield is a built-in service, available in all HomeShield routers and Deco mesh products.

- Router Security Scan
- Wireless Security Scan
- IoT Device Identification
- Basic Parental Controls
- IoT Protection*
- Web Protection*
- Intrusion Prevention*
- Antivirus Protection*

*Included with HomeShield premium subscription service

Figure 3: Illustration of the Archer BE550's tri-band capabilities and theoretical maximum speeds.

Extended Coverage with EasyMesh

The Archer BE550 is EasyMesh-compatible, allowing you to expand your network coverage seamlessly. If you have dead zones, you can add other EasyMesh-compatible routers or range extenders to form a unified whole-home mesh Wi-Fi system. This eliminates dead zones and provides uninterrupted streaming and connectivity as you move throughout your home.

Need More Wi-Fi Coverage? Expand With Ease.

Archer BE550 is EasyMesh-compatible. If you have any dead zones at home, just add another EasyMesh router/range extender to further form your whole home multi-gigabit mesh Wi-Fi.

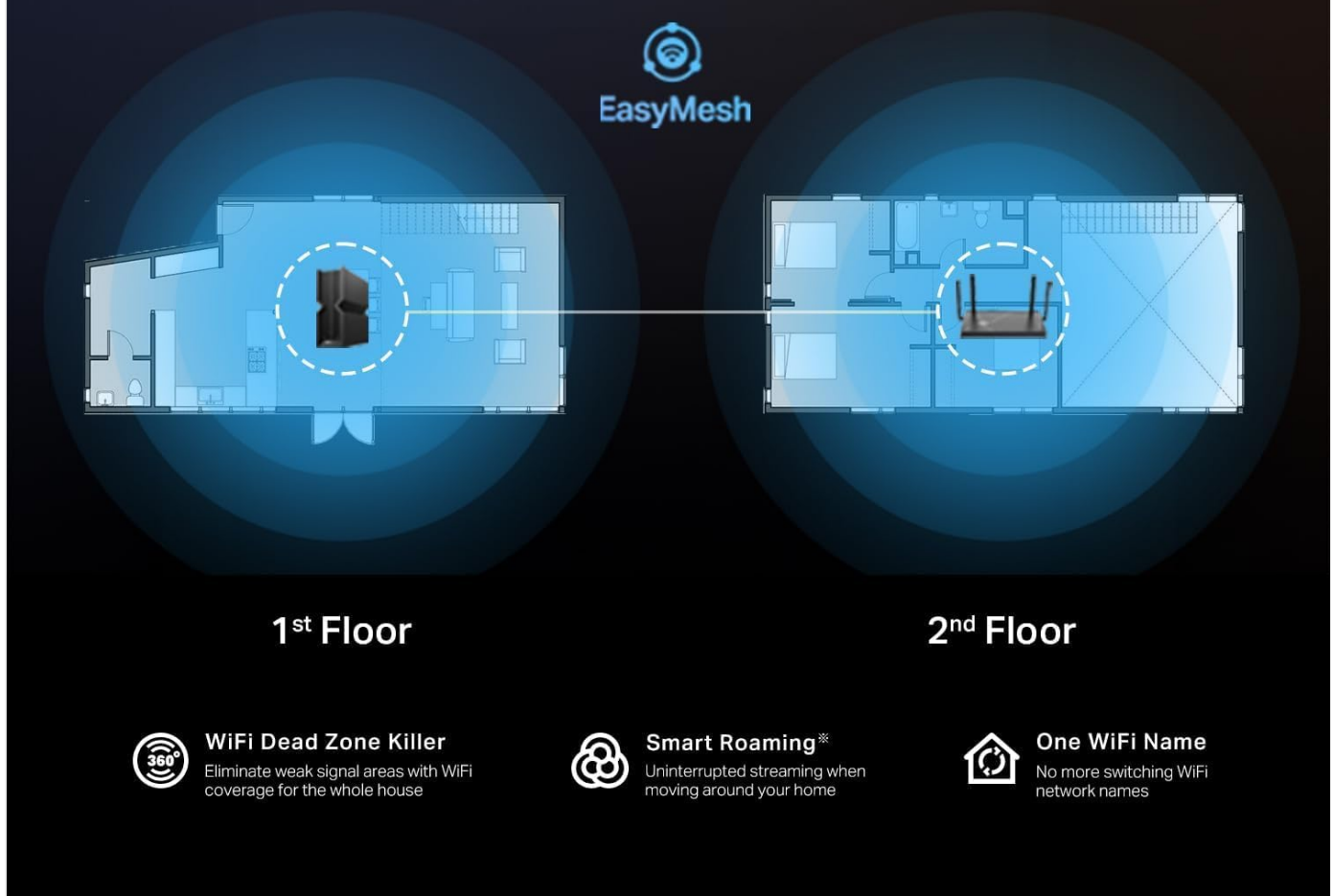


Figure 4: Visual representation of EasyMesh extending Wi-Fi coverage across multiple floors, eliminating dead zones and providing smart roaming.

The router features 6 internal antennas and Beamforming technology to concentrate Wi-Fi signals towards your devices, ensuring stronger and more reliable connections up to 2,000 sq ft.

Advanced Network Features

- **TP-Link HomeShield:** Provides comprehensive network protection, robust parental controls, and real-time IoT security. Features include Router Security Scan, Wireless Security Scan, IoT Device Identification, Basic Parental Controls, Web Protection, Intrusion Prevention, and Antivirus Protection.
- **Private IoT Network:** Create a separate Wi-Fi network specifically for your IoT devices, enhancing security with HomeShield and WPA3 encryption.
- **VPN Client & Server Support:** Allows devices on your home network to connect to remote VPN servers without individual software installation. Supports both VPN and regular internet connections simultaneously for flexibility and security.

MAINTENANCE

To ensure optimal performance and longevity of your Archer BE550 router, consider the following maintenance tips:

- **Firmware Updates:** Regularly check for and install the latest firmware updates via the Tether app or the router's web interface. Firmware updates often include performance improvements, security patches, and new features.
- **Proper Placement:** Place the router in a central location, away from obstructions (thick walls, large metal objects) and sources of interference (microwaves, cordless phones). Elevating the router can also improve signal distribution.
- **Cleaning:** Keep the router clean and free of dust. Ensure ventilation openings are not blocked to prevent overheating.
- **Reboot Periodically:** A periodic reboot (e.g., once a month) can help clear the router's memory and resolve minor performance issues.

TROUBLESHOOTING

If you encounter issues with your Archer BE550 router, try the following steps:

- **No Internet Access:**
 - Check the WAN port connection to your modem.
 - Verify that your modem is working correctly and has an active internet connection.
 - Reboot both your modem and router.
 - Contact your Internet Service Provider (ISP) if the issue persists.
- **Weak Wi-Fi Signal or Dead Zones:**
 - Relocate the router to a more central position.
 - Minimize physical obstructions and interference sources.
 - Consider adding an EasyMesh-compatible range extender or another router to create a mesh network.
- **Slow Speeds:**
 - Ensure your devices support Wi-Fi 7 or Wi-Fi 6 for optimal performance.
 - Check for network congestion (too many devices or high-bandwidth activities).
 - Perform a speed test to verify your internet speed from your ISP.
 - Update your device's wireless drivers.
- **Cannot Access Router Management Page:**
 - Ensure your device is connected to the router's network.
 - Verify you are using the correct web address (<http://tplinkwifi.net> or <http://192.168.0.1>).
 - Clear your browser's cache or try a different browser.

SPECIFICATIONS

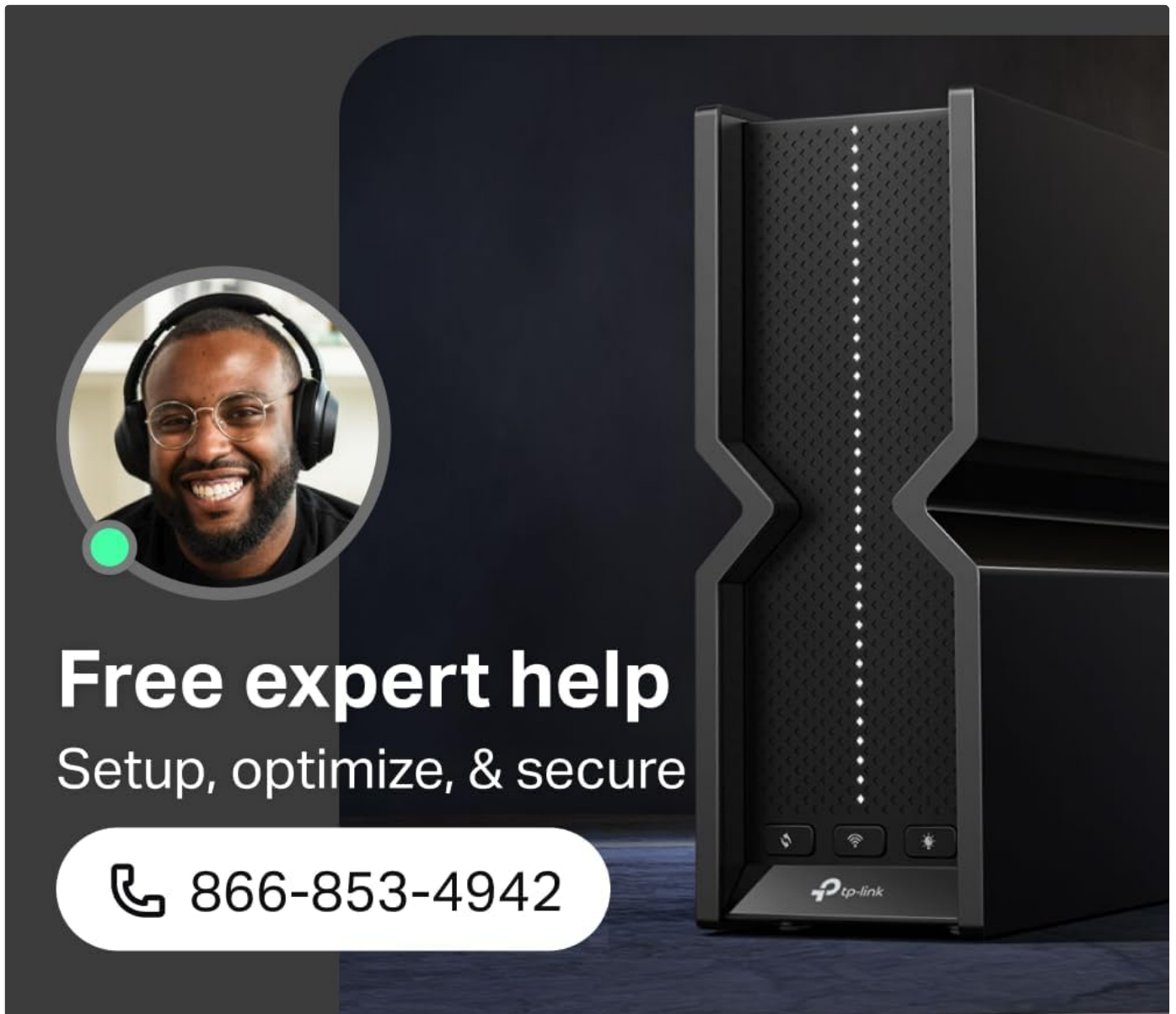
Feature	Description
Model Name	Archer BE550
Brand	TP-Link

Product Dimensions	9.12 x 2.99 x 7.99 inches
Item Weight	2.45 pounds
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Connectivity Technology	Wi-Fi (802.11ac, 802.11ax, 802.11n, 802.11g, 802.11be), Ethernet, USB
Ports	1x 2.5G WAN, 4x 2.5G LAN, 1x USB 3.0
Special Features	QoS, Guest Mode, Access Point Mode, WPS, Remote Access, EasyMesh, HomeShield, VPN Support
Recommended Uses	Gaming, Home Networking
Coverage	Up to 2,000 Sq Ft

WARRANTY AND SUPPORT

TP-Link provides comprehensive support for its products. For any technical assistance, setup guidance, optimization tips, or security concerns, you can contact TP-Link's free expert support.

- **Free Expert Support:** Call 866-853-4942
- **Online Resources:** Visit the official TP-Link website for FAQs, troubleshooting guides, firmware downloads, and community forums.

The advertisement features a dark background. On the left, a circular inset shows a smiling man with a beard and glasses wearing a headset, representing a support agent. To the right is a black TP-Link router with a vertical light strip on its front panel. Below the agent's photo, the text "Free expert help" is written in large white font, followed by "Setup, optimize, & secure" in a smaller white font. At the bottom left, a white rounded rectangle contains a phone icon and the number "866-853-4942".

Free expert help
Setup, optimize, & secure


 866-853-4942

Figure 5: TP-Link offers free expert support for setup, optimization, and security of your router.