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 - › TP-Link Tri-Band BE15000 WiFi 7 Router Archer BE700 User Manual

TP-Link Archer BE700

TP-Link Archer BE700 WiFi 7 Router User Manual

Model: Archer BE700 | Brand: TP-Link

1. INTRODUCTION

The TP-Link Archer BE700 is a Tri-Band BE15000 WiFi 7 Router designed to provide advanced wireless performance. It features 8-stream 15Gbps connectivity, multiple multi-gigabit ports including a 10G WAN port, a 2.5G LAN port, and two 1G LAN ports, along with a USB 3.0 port. The router incorporates 6 internal antennas for broad coverage and supports VPN Clients & Server, Easy-Mesh, Multi-Link Operation (MLO), and Private IoT networks. This manual provides instructions for setting up, operating, maintaining, and troubleshooting your Archer BE700 router.



Figure 1: TP-Link Archer BE700 WiFi 7 Router

This image displays the TP-Link Archer BE700 WiFi 7 Router from an angled perspective, highlighting its sleek black design and vertical orientation. The front panel features a perforated pattern with illuminated indicators, and the TP-Link logo is visible at the base.

2. WHAT'S IN THE BOX

Verify that all items are present in your package:

- Wi-Fi 7 Router Archer BE700
- 1 * RJ45 Ethernet Cable
- 1 * Power Adapter
- 1 * Quick Installation Guide (QIG)

3. SETUP INSTRUCTIONS

Follow these steps to set up your Archer BE700 router using the TP-Link Tether app:

1. **Connect:** Connect your modem to the router's WAN port using the provided Ethernet cable. Connect the power adapter to the router and plug it into a power outlet. Power on both the modem and the router.
2. **Download:** Download and install the TP-Link Tether app on your Android or iOS device. The app is available on the Google Play Store and Apple App Store.
3. **Configure:** Launch the Tether app and follow the on-screen instructions to complete the setup process. This includes creating a TP-Link ID, connecting to the router's default Wi-Fi network, and configuring your internet connection and Wi-Fi settings.

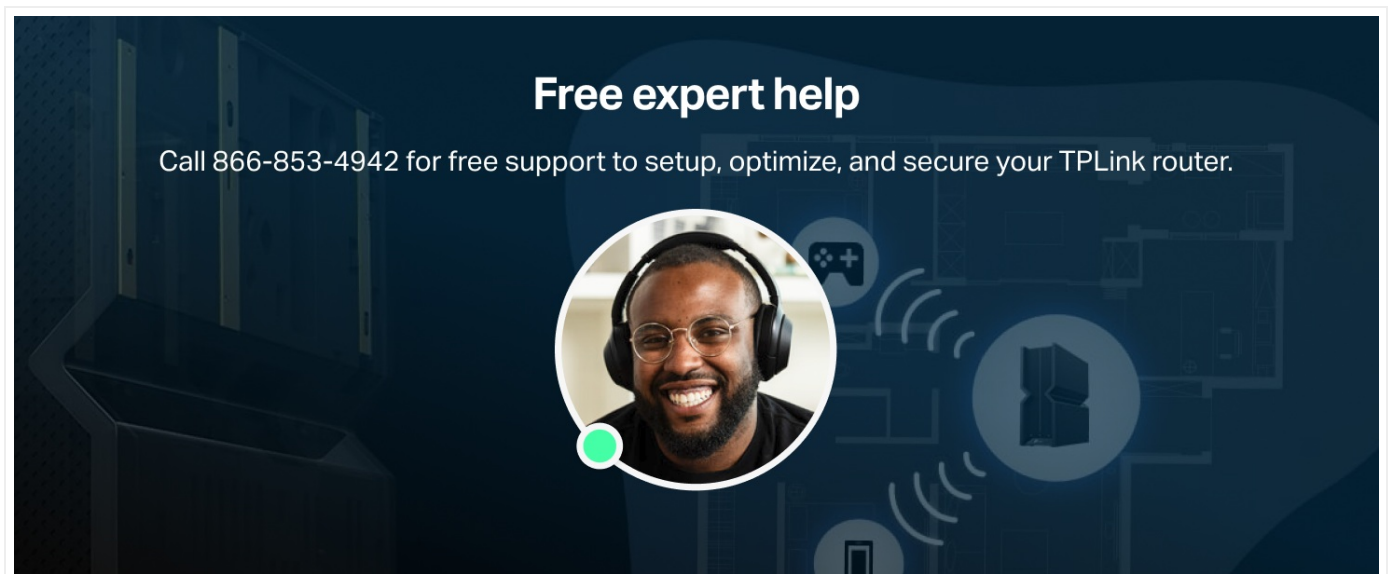


Figure 2: Quick Setup via Tether App

This image illustrates the three-step setup process using the TP-Link Tether app: Connect to a modem and power on, Download and launch the Tether app, and Configure by following in-app instructions. A smartphone screen displaying the Tether app interface is shown alongside the router.

4. OPERATING THE ROUTER

The Archer BE700 offers a range of features to optimize your network experience.

4.1. Wi-Fi 7 Technology

The router is equipped with the latest Wi-Fi 7 (802.11be) technology, providing significant advancements over previous generations. Key features include:

- **Multi-Link Operation (MLO):** Combines Wi-Fi bands for higher throughput, lower latency, and improved reliability.
- **320 MHz Bandwidth:** Available on the 6 GHz band, offering double the channel width and speed compared to 160 MHz on Wi-Fi 6E.
- **4K-QAM:** Increases the total number of data bits that can be encoded for data transmission, leading to higher data efficiency.
- **Multi-RUs:** Distributes data traffic across resource units, ensuring all devices experience maximum speed and reducing lag.



Figure 3: Wi-Fi Generations Comparison

This image compares Wi-Fi 7, Wi-Fi 6E, and Wi-Fi 5, highlighting Wi-Fi 7's advanced features such as Multi-Link Operation (MLO), 6 GHz + 320 MHz Channels, 4K QAM, and Multi-RUs for boosted speed and reliability, increased throughput, higher data efficiency, and faster speeds for more users.

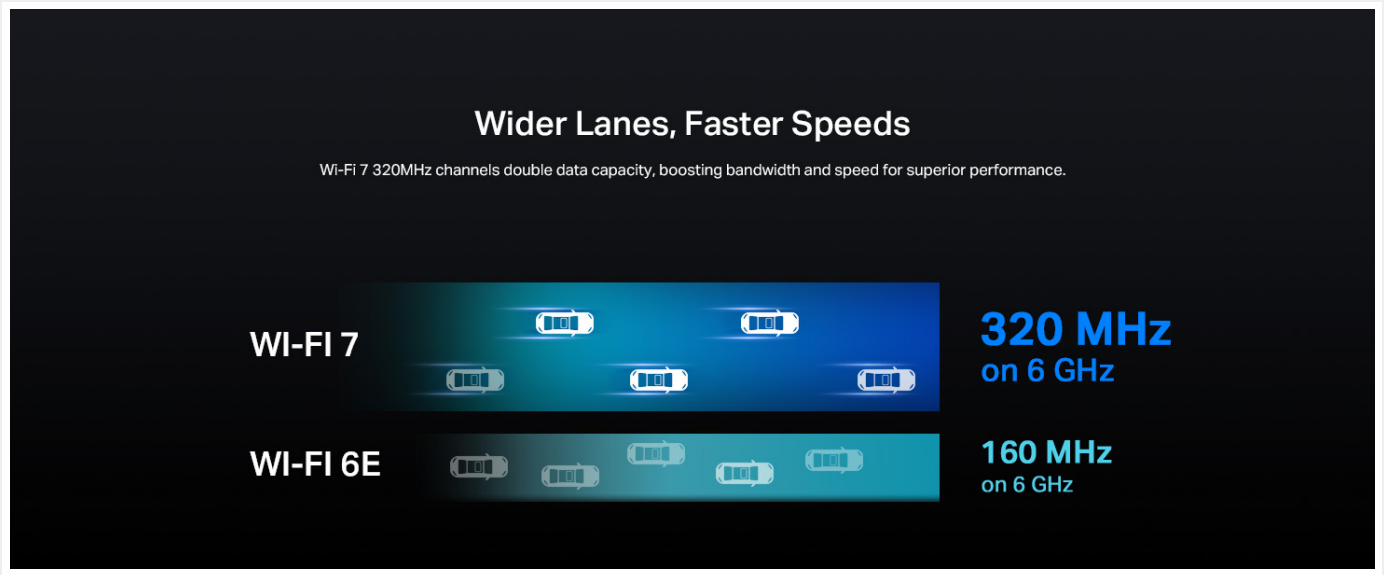


Figure 4: Multi-Link Operation (MLO)

This diagram illustrates how Wi-Fi 7 MLO combines Wi-Fi bands (6/5 GHz and 2.4 GHz) through aggregation or alternating MLO to provide boosted throughput, lower latency, and improved reliability for connected devices.

4.2. Tri-Band Speeds

The Archer BE700 operates on three distinct bands to deliver combined speeds of up to 15 Gbps:

- **6 GHz Band:** Up to 11528 Mbps

- **5 GHz Band:** Up to 2882 Mbps
- **2.4 GHz Band:** Up to 688 Mbps

Tri-Band Wi-Fi up to 15 Gbps



Figure 5: Tri-Band Wi-Fi Speeds

This image visually represents the Tri-Band Wi-Fi capabilities of the Archer BE700, showing speeds of 688 Mbps on 2.4GHz, 11582 Mbps on 6GHz, and 2882 Mbps on 5GHz, enabling smooth 8K streaming, VR/AR, video conferencing, online gaming, and high-speed downloading.

4.3. Multi-Gigabit Connectivity (Ports)

The router is equipped with multiple high-speed ports for wired connections:

- **10 Gbps WAN Port:** For high-speed internet connections.
- **2.5 Gbps LAN Port:** For connecting high-bandwidth devices like gaming PCs or NAS.
- **3 x 1 Gbps LAN Ports:** For general wired connections.
- **USB 3.0 Port:** For connecting external storage devices to share files across your network.



Figure 6: Router Ports

This image provides a detailed view of the rear panel of the Archer BE700 router, clearly labeling its connectivity options: one 10 Gbps WAN port, one 2.5 Gbps LAN port, three 1 Gbps LAN ports, and a USB 3.0 port. It also shows the power button and reset button.

4.4. Wi-Fi Coverage and Antennas

The Archer BE700 provides enhanced Wi-Fi coverage up to 2,200 sq. ft. through:

- **6x High Gain Internal Antennas:** Optimally positioned to boost Wi-Fi signals throughout your home.
- **Beamforming Technology:** Detects connected devices and concentrates Wi-Fi signals towards them, improving signal strength and coverage, especially in hard-to-reach areas.

Wi-Fi Coverage Up To 2,200 Sq. Ft.

6× High Gain Antennas
For Broader Coverage

Strong, Focused Signal with
Beamforming Technology



Figure 7: Wi-Fi Coverage and Beamforming

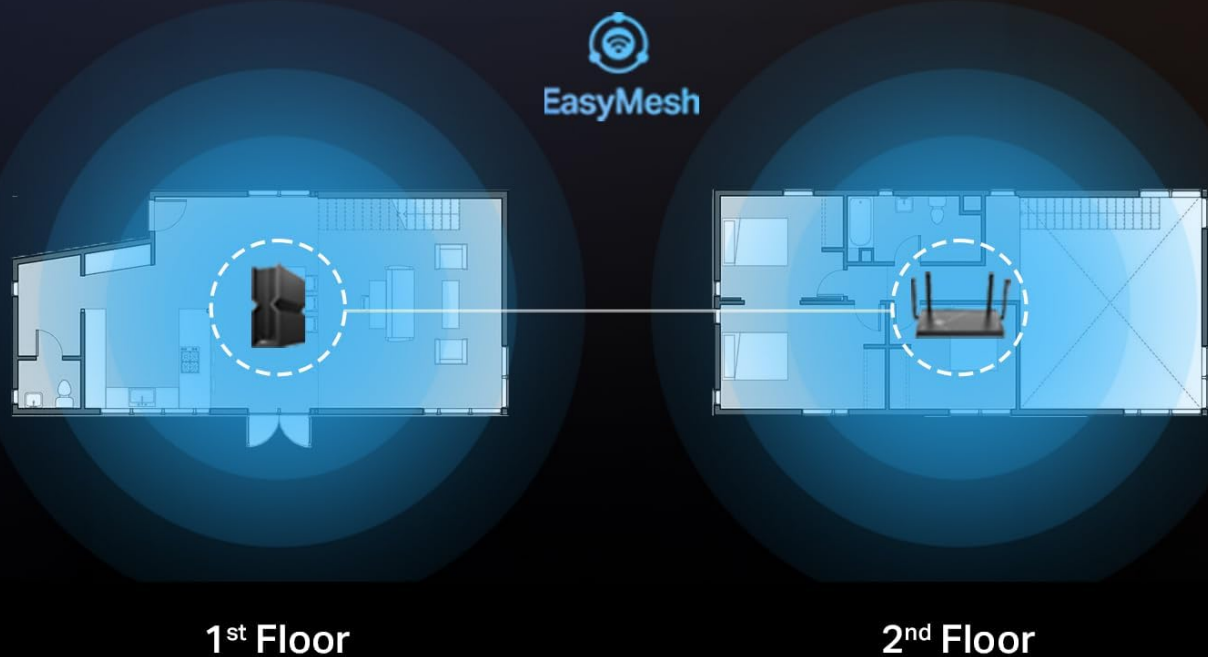
This image illustrates the Wi-Fi coverage capabilities of the Archer BE700, indicating coverage up to 2,200 sq. ft. It highlights the router's 6 high-gain antennas and the Beamforming technology that focuses signals towards devices for stronger, more reliable connections.

4.5. EasyMesh Compatibility

The Archer BE700 is EasyMesh-compatible, allowing you to expand your network coverage seamlessly. If you experience dead zones, you can add another EasyMesh-compatible router or range extender to form a whole-home multi-gigabit mesh Wi-Fi system. This eliminates dead zones, drops, and lag as you move throughout your home, providing a single Wi-Fi name for uninterrupted streaming.

Need More Wi-Fi Coverage? Expand With Ease.

Archer BE700 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.



WiFi Dead Zone Killer
Eliminate weak signal areas with WiFi coverage for the whole house



Smart Roaming*
Uninterrupted streaming when moving around your home



One WiFi Name
No more switching WiFi network names

Figure 8: EasyMesh Network Expansion

This diagram demonstrates how the Archer BE700, being EasyMesh-compatible, can expand Wi-Fi coverage across multiple floors or areas of a home by adding another EasyMesh router or range extender. It highlights features like Wi-Fi Dead Zone Killer, Smart Roaming, and One Wi-Fi Name for seamless whole-home connectivity.

4.6. HomeShield Security

TP-Link HomeShield is a built-in security service that protects your home network and connected devices. It includes both basic and advanced features:

- **Basic Network Security:** Includes Security Scan and IoT Device Identification.
- **Basic Parental Controls:** Manage internet access for family members.
- **Quality of Service (QoS):** Prioritize network traffic for specific devices or applications.
- **Basic Weekly/Monthly Reports:** Overview of network activity.

Advanced features like IoT Protection, Web Protection, Intrusion Prevention, and Antivirus Protection require a paid subscription. TP-Link is a signatory of the U.S. Cybersecurity and Infrastructure Security Agency's (CISA) Secure-by-Design pledge, ensuring advanced security is a core requirement of the device.



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 9: HomeShield and Cybersecurity

This image highlights TP-Link's commitment to cybersecurity and privacy, being based in the U.S.A. It details HomeShield as a built-in service available in all HomeShield routers, offering features like Router Security Scan, IoT Device Identification, Basic Parental Controls, IoT Protection, Web Protection, Intrusion Prevention, and Antivirus Protection.

4.7. Private IoT Network

The Archer BE700 allows you to set up a dedicated Wi-Fi network specifically for your IoT (Internet of Things) devices. Combined with HomeShield and advanced WPA3 encryption, this feature ensures stronger protection for your home network and connected IoT devices by isolating them from your main network.

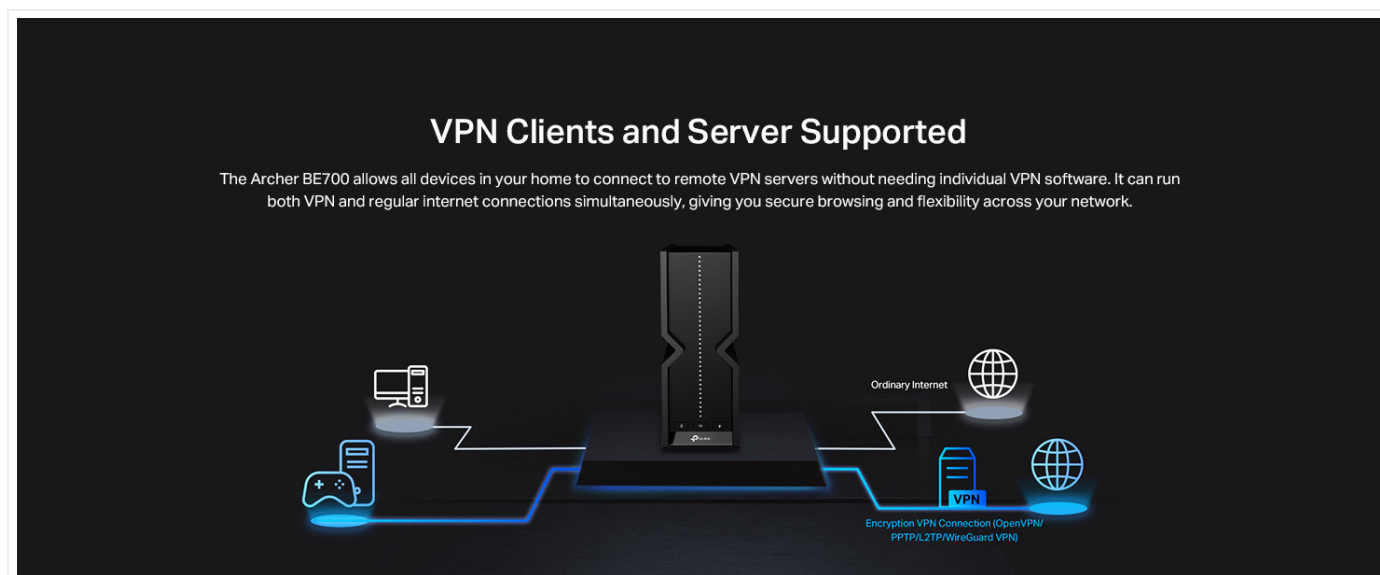


Figure 10: Private IoT Network

This diagram illustrates the concept of a Private IoT Network, showing various smart home devices connected to a dedicated Wi-Fi network managed by the Archer BE700, ensuring enhanced security and isolation from the main network.

4.8. VPN Clients and Server

The Archer BE700 supports both VPN Clients and Server functionalities. This allows all devices in your home network to connect to remote VPN servers without needing individual VPN software on each device. You can also run both VPN and regular internet connections simultaneously, providing secure browsing and flexibility across your network. Supported protocols may include OpenVPN, PPTP, and L2TP under certain configurations.

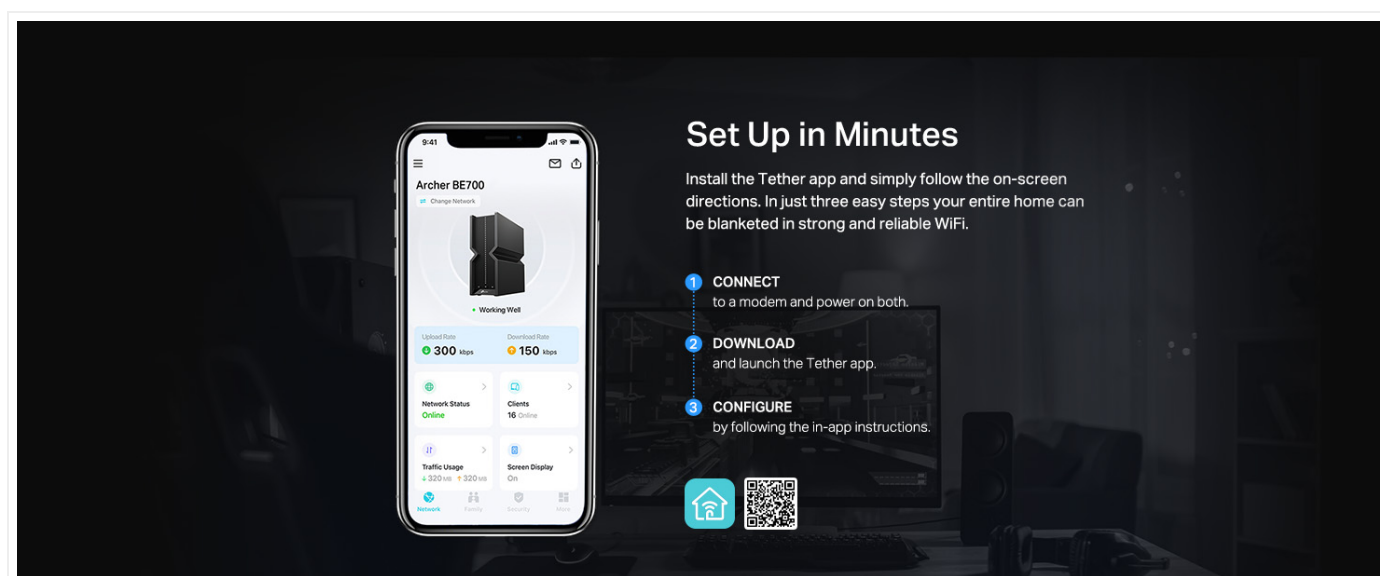


Figure 11: VPN Clients and Server

This diagram illustrates the Archer BE700's support for VPN Clients and Server, showing how devices within the home network can connect to a VPN server, allowing for secure and flexible internet access alongside ordinary internet connections.

5. MAINTENANCE

To ensure optimal performance and longevity of your Archer BE700 router, consider the following maintenance tips:

- **Placement:** Place the router in a central location, away from obstructions, large metal objects, and sources of interference (e.g., microwaves, cordless phones).
- **Ventilation:** Ensure the router is placed in a well-ventilated area to prevent overheating. Do not cover ventilation openings.

- **Cleaning:** Regularly clean the router's exterior with a soft, dry cloth to prevent dust buildup. Avoid using liquid cleaners or abrasive materials.
- **Firmware Updates:** Periodically check for and install firmware updates through the Tether app or the router's web interface. Updates often include performance improvements and security enhancements.
- **Power Cycle:** If you experience minor performance issues, try power cycling the router (unplugging it for 10-15 seconds and then plugging it back in).

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Archer BE700 router.

6.1. General Performance Considerations

Maximum wireless signal rates are physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary due to internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location. Actual network speed may also be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, and other environmental conditions.

6.2. Common Issues and Solutions

- **No Internet Connection:**
 - Ensure your modem is working correctly and its indicator lights are stable.
 - Check all Ethernet cable connections between the modem and the router's WAN port.
 - Power cycle both your modem and router.
- **Slow Wi-Fi Speeds:**
 - Verify your internet service plan supports the speeds you expect.
 - Ensure your client devices (laptops, phones) support Wi-Fi 7 (802.11be) and its features (MLO, 320 MHz, 4K-QAM, Multi-RUs) to fully utilize the router's capabilities.
 - Reduce interference by moving the router away from other electronic devices.
 - Consider adding an EasyMesh-compatible extender if you have a large home or dead zones.
- **Devices Not Connecting to Specific Bands (2.4GHz, 5GHz, 6GHz):**
 - Some older devices may only support 2.4GHz.
 - If using a single SSID for all bands (Smart Connect), the router automatically steers devices. If you prefer manual control, you can disable Smart Connect in the Tether app or web interface to create separate SSIDs for each band.
 - Ensure your device's Wi-Fi adapter supports the 5GHz or 6GHz band.
- **EasyMesh Connection Issues:**
 - Ensure all devices are EasyMesh-compatible. Firmware conflicts between different vendors may cause issues.
 - The EasyMesh-compatible function is still being developed on some models and will be supported in subsequent software updates.

7. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Name	BE15000 Tri-Band Wi-Fi 7 Router
Item Model Number	Archer BE700
Brand	TP-Link
Wireless Communication Standard	802.11be, 802.11ac, 802.11ax, 802.11g, 802.11n
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Connectivity Technology	Ethernet, USB, Wi-Fi
Ports	1 x 10 Gbps WAN, 1 x 2.5 Gbps LAN, 3 x 1 Gbps LAN, 1 x USB 3.0
Antennas	6 Internal Antennas
Special Features	Access Point Mode, Guest Mode, Internet Security, Parental Control, Remote Access, EasyMesh, MLO, Private IoT
Compatible Devices	Gaming Console, Personal Computer, Smart Television, Smartphone, Tablet
Recommended Uses	Gaming, Home
Color	Black
Item Weight	2.47 pounds
Package Dimensions	10.94 x 9.53 x 5.87 inches

8. WARRANTY AND SUPPORT

TP-Link provides comprehensive support for its products. For assistance with setup, optimization, or any Wi-Fi related issues, you can contact the expert support team.

Contact Support:

- **Email:** Support.USA@tp-link.com
- **Phone:** 866-853-4942 (for free expert help)

For detailed warranty information, please refer to the documentation included with your product or visit the official TP-Link website.

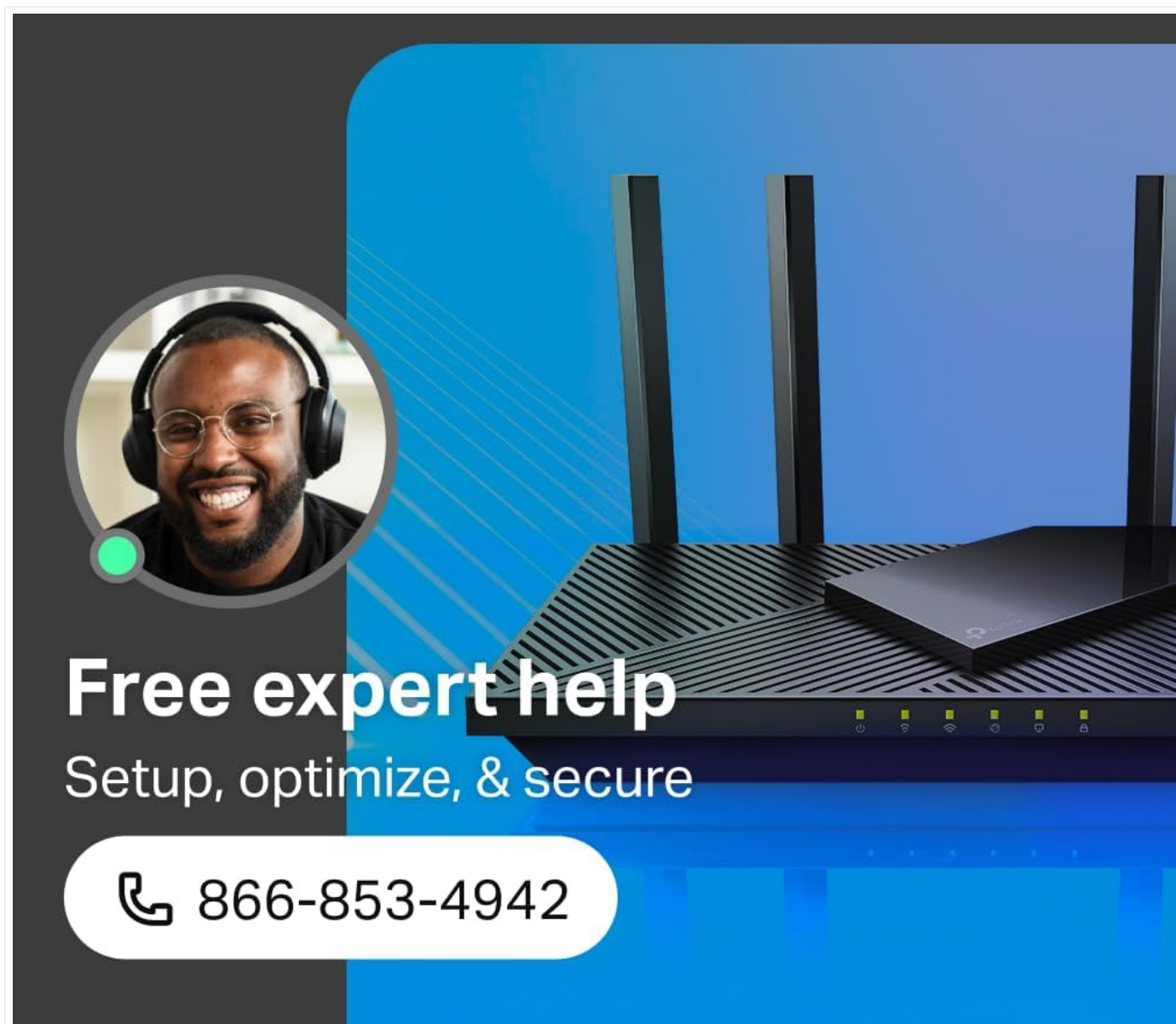


Figure 12: Free Expert Help

This image promotes TP-Link's free expert help service, providing a phone number (866-853-4942) for assistance with setup, optimization, and securing your TP-Link router. It features a smiling customer service representative wearing a headset.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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