

TP-Link Archer BE550 Pro

TP-Link Archer BE550 Pro Wi-Fi 7 Router User Manual

Model: Archer BE550 Pro

1. INTRODUCTION

The TP-Link Archer BE550 Pro is a Tri-Band BE9700 Wi-Fi 7 Router designed to deliver cutting-edge wireless internet performance. Featuring exceptional 9.7 Gbps speeds, significantly reduced latency, and support for the 6 GHz frequency band, this router is engineered for demanding applications such as 8K streaming, VR/AR, video conferencing, and online gaming. It includes a 10G WAN port and four 2.5G LAN ports for high-performance wired connections, along with a USB 3.0 port for data sharing.

Equipped with the latest Wi-Fi 7 technology, including Multi-Link Operation (MLO), Multi-RU, and 4K-QAM, the Archer BE550 Pro ensures a robust and efficient network. Its advanced features like HomeShield provide comprehensive network protection, parental controls, and real-time IoT security. With 6 internal antennas and Beamforming technology, it offers extensive Wi-Fi coverage up to 2,000 sq. ft. and supports EasyMesh for seamless whole-home Wi-Fi expansion.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- Wi-Fi 7 Router Archer BE550 Pro
- 1 x RJ45 Ethernet Cable
- 1 x Power Adapter
- 1 x Quick Installation Guide (QIG)

3. PHYSICAL OVERVIEW



A sleek, black TP-Link Archer BE550 Pro Wi-Fi 7 router, viewed from a slight angle, highlighting its modern design and vertical orientation. The front panel features a perforated pattern with LED indicators and subtle TP-Link branding at the base.



An enhanced close-up of the TP-Link Archer BE550 Pro's rear connectivity panel, clearly labeling the 10 Gbps WAN port, four 2.5 Gbps LAN ports, and the USB 3.0 port, emphasizing its multi-gigabit capabilities.

Ports and Buttons:

- **10 Gbps WAN Port:** Connects to your modem for internet access.
- **4 x 2.5 Gbps LAN Ports:** For high-speed wired connections to devices like PCs, gaming consoles, or NAS.
- **USB 3.0 Port:** For connecting external storage devices to share files across your network.
- **Power Port:** Connects to the included power adapter.
- **Power On/Off Button:** To turn the router on or off.
- **Reset Button:** Used to restore the router to factory default settings.

4. SETUP GUIDE

4.1. Connecting the Hardware

1. **Power Off Your Modem:** Unplug your modem's power adapter.
2. **Connect the Router:** Use the provided RJ45 Ethernet cable to connect your modem's Ethernet port to the 10

Gbps WAN port on your Archer BE550 Pro router.

3. **Power On Devices:** Plug in and power on your modem first, then plug in and power on your Archer BE550 Pro router. Wait for the router's LED indicators to stabilize, indicating it's ready.
4. **Connect Your Device:** Connect your computer or mobile device to the router either wirelessly (using the Wi-Fi name and password printed on the router's label) or via an Ethernet cable to one of the LAN ports.

4.2. Initial Configuration (Using TP-Link Tether App)

The TP-Link Tether app provides an easy way to set up and manage your router.

1. **Download the Tether App:** Search for "TP-Link Tether" in the Apple App Store or Google Play Store, or scan the QR code in the Quick Installation Guide.
2. **Launch the App:** Open the Tether app and log in with your TP-Link ID. If you don't have one, create one first.
3. **Add Your Router:** Tap the "+" icon in the app and select "Router" > "Wireless Router". Follow the on-screen instructions to complete the setup process.

Alternatively, you can configure the router via a web browser by navigating to <http://tplinkwifi.net> or the router's default IP address (usually 192.168.0.1 or 192.168.1.1) and following the setup wizard.

5. OPERATING THE ROUTER

5.1. Wi-Fi 7 Technology

Tri-Band Wi-Fi up to 9.7 Gbps



2.4GHz
688 Mbps

6GHz
6126 Mbps

5GHz
2882 Mbps

A visual representation of the Archer BE550 Pro's tri-band Wi-Fi capabilities, showing speeds for the 2.4GHz (688 Mbps), 6GHz (6126 Mbps), and 5GHz (2882 Mbps) bands, totaling up to 9.7 Gbps.

The Archer BE550 Pro leverages Wi-Fi 7 (802.11be) to provide superior performance:

- **Multi-Link Operation (MLO):** Combines multiple frequency bands (2.4 GHz, 5 GHz, and 6 GHz) to transmit data simultaneously, boosting speed and reliability while reducing latency.
- **320 MHz Channels:** Utilizes wider channels on the 6 GHz band for increased data capacity and faster speeds, ideal for 8K streaming and large file transfers.
- **4K-QAM:** A higher-order modulation scheme that packs more data into each signal, leading to a 20% increase in theoretical peak speeds compared to Wi-Fi 6E.
- **Multi-RU:** Enhances efficiency by allowing multiple users to transmit data simultaneously on different resource units, minimizing latency and maximizing throughput.

5.2. Multi-Gigabit Ports

The router features a 10 Gbps WAN port and four 2.5 Gbps LAN ports, enabling you to take full advantage of multi-gigabit internet plans and connect high-bandwidth devices like gaming PCs, NAS, or 2.5G PCIe adapters for optimal performance.

Wi-Fi Coverage Up To 2,000 Sq. Ft.

6× High Gain Antennas
For Broader Coverage

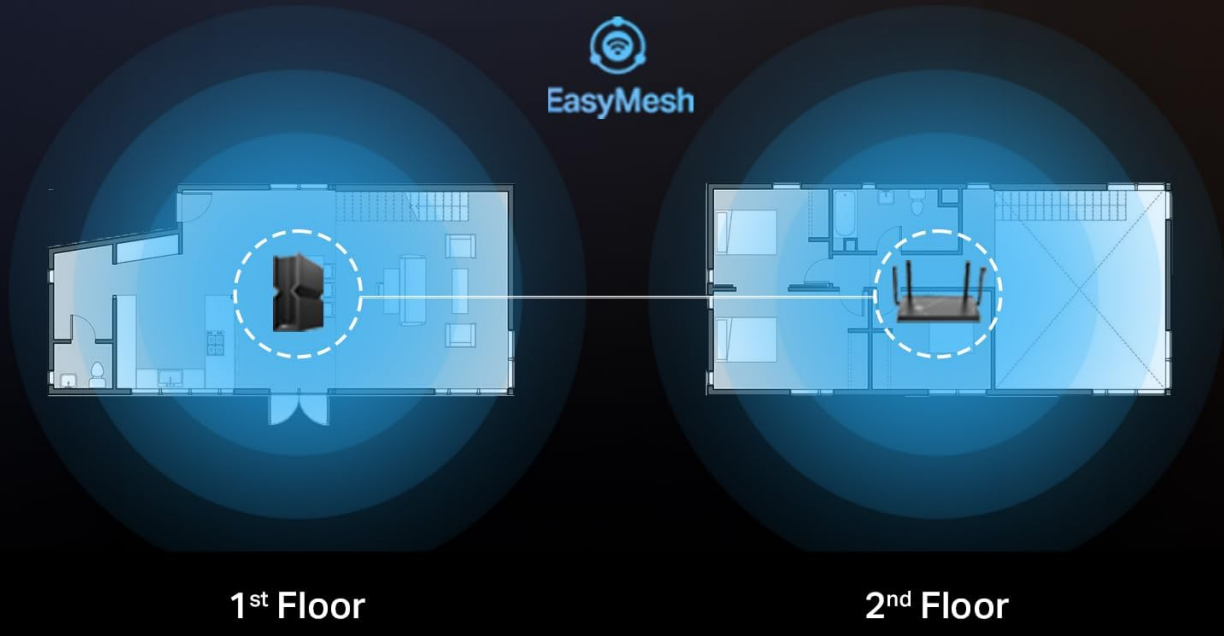
Strong, Focused Signal with
Beamforming Technology



A diagram illustrating the Wi-Fi coverage provided by the Archer BE550 Pro, showing how its 6 high-gain antennas and Beamforming technology extend signals up to 2,000 sq. ft. for broader coverage within a home.

Need More Wi-Fi Coverage? Expand With Ease.

Archer BE550 Pro 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

A floor plan diagram demonstrating how the Archer BE550 Pro, being EasyMesh-compatible, can expand Wi-Fi coverage across multiple floors or larger homes by adding additional EasyMesh routers or range extenders, creating a seamless whole-home network.

The Archer BE550 Pro features 6 internal antennas and Beamforming technology to focus Wi-Fi signals towards connected devices, extending coverage up to 2,000 sq. ft. For larger homes or areas with dead zones, the router supports TP-Link EasyMesh. You can expand your network by adding other EasyMesh-compatible devices, creating a unified mesh Wi-Fi system with a single Wi-Fi name and seamless roaming.

5.4. HomeShield Security

 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

An image illustrating TP-Link's commitment to cybersecurity and privacy, featuring graphics related to 'Secure by Design' and 'HomeShield'. It highlights features like router security scan, IoT protection, parental controls, and antivirus protection.

TP-Link HomeShield provides a suite of security features to protect your home network and connected devices:

- **Network Protection:** Includes router security scan, intrusion prevention, and malicious site blocking.
- **Parental Controls:** Manage online time, block inappropriate content, and pause internet access for specific devices.
- **IoT Security:** Real-time protection for smart home devices, identifying and blocking potential threats.
- **Quality of Service (QoS):** Prioritize bandwidth for specific devices or applications to ensure smooth performance.

Note: Some advanced HomeShield features may require a paid subscription.

5.5. VPN Clients & Server

The Archer BE550 Pro supports both VPN client and server functionalities. This allows all devices in your home network to connect to remote VPN servers without needing individual VPN software, or enables you to access your home network securely from outside.

5.6. Private IoT Network

You can set up a dedicated Wi-Fi network specifically for your IoT devices. Combined with HomeShield and WPA3 encryption, this provides enhanced security and isolation for your smart home ecosystem.

6. MAINTENANCE

- **Firmware Updates:** Regularly check for and install firmware updates via the Tether app or web interface to ensure optimal performance, security, and access to new features.
- **Router Placement:** Place the router in a central location, away from obstructions and interference sources (e.g., microwaves, cordless phones) for best Wi-Fi coverage.
- **Cleaning:** Keep the router clean and free of dust to prevent overheating. Use a soft, dry cloth for cleaning.
- **Rebooting:** Periodically reboot your router (unplug and replug the power adapter) to refresh its connection and clear any temporary issues.

7. TROUBLESHOOTING

7.1. No Internet Access

- Check all cable connections between the router, modem, and your devices. Ensure they are securely plugged in.
- Verify that your modem is working correctly. Try connecting a computer directly to the modem to confirm internet access.
- Reboot your modem and router. Power off both devices, wait 30 seconds, then power on the modem first, followed by the router.
- Check the WAN LED indicator on the router. If it's off or red, there might be an issue with your internet service provider (ISP) connection.

7.2. Poor Wi-Fi Signal or Slow Speeds

- **Router Placement:** Move the router to a more central location in your home, away from walls, large metal objects, and other electronic devices that may cause interference.
- **Interference:** Avoid placing the router near microwaves, cordless phones, or Bluetooth devices.
- **Channel Optimization:** Use the Tether app or web interface to perform a Wi-Fi analysis and select a less congested Wi-Fi channel.
- **EasyMesh:** If you have dead zones, consider adding an EasyMesh-compatible range extender or another router to expand coverage.
- **Device Compatibility:** Ensure your devices support Wi-Fi 7 for optimal performance.

7.3. Cannot Access Router Management Page

- Ensure your device is connected to the router's network (wired or wireless).
- Verify that you are typing the correct address (<http://tplinkwifi.net> or the router's IP address, e.g., 192.168.0.1) into your browser's address bar.
- Clear your browser's cache and cookies, or try a different web browser.
- Temporarily disable any VPN or firewall software on your computer.

7.4. Forgot Wi-Fi Password or Login Password

- If you forgot your Wi-Fi password, you can find it on the router's label or in the Tether app/web interface if you have access.

- If you forgot your router's login password, you will need to perform a factory reset. Press and hold the Reset button on the back of the router for about 10 seconds until the LEDs flash. The router will revert to its default settings, and you can set up a new login password during the initial configuration.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	Archer BE550 Pro
Wi-Fi Standard	Wi-Fi 7 (802.11be)
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Max Wi-Fi Speed	Up to 9.7 Gbps (BE9700)
Ethernet Ports	1 x 10 Gbps WAN Port, 4 x 2.5 Gbps LAN Ports
USB Port	1 x USB 3.0 Port
Antennas	6 Internal Antennas
Wi-Fi Coverage	Up to 2,000 sq. ft.
Processor	Quad-Core Processor
Dimensions (L x W x H)	9.12 x 3 x 8 inches (approx.)
Power Supply	12VDC / 3.3A
Operating System	Linux-based
Special Features	Access Point Mode, Guest Mode, Internet Security, Parental Control, Remote Access, EasyMesh, HomeShield, VPN Client/Server, Private IoT Network

9. WARRANTY AND SUPPORT

TP-Link provides a limited warranty for this product. Please refer to the official TP-Link website or the warranty card included in your package for detailed warranty terms and conditions specific to your region.

Customer Support:

For technical support, firmware updates, and product information, please visit the official TP-Link support website:

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

You can also find FAQs, troubleshooting guides, and community forums on their support page.

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