

TP-Link Archer BE550

TP-Link Archer BE550 WiFi 7 Router User Manual

Model: Archer BE550

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, and maintaining your TP-Link Archer BE550 WiFi 7 Tri-Band BE9300 Router. The Archer BE550 leverages the latest Wi-Fi 7 (802.11be) technology to deliver ultra-fast speeds and enhanced network efficiency, ideal for demanding applications like 4K/8K streaming, cloud gaming, and large file transfers.

Key features include:

- **Wi-Fi 7 Technology:** Incorporates 4K-QAM, 320 MHz channel width, and Multi-Link Operation (MLO) for significant speed and efficiency gains over Wi-Fi 6.
- **Ultra-Fast Tri-Band Speeds:** Up to 5760 Mbps on 6 GHz, 2882 Mbps on 5 GHz, and 574 Mbps on 2.4 GHz.
- **Extensive Coverage:** Equipped with 6 internal high-gain antennas and Beamforming technology for broad, consistent signal distribution.
- **Multi-Gigabit Wired Connections:** Features 5x 2.5 Gigabit ports (1 WAN, 4 LAN) and a USB 3.0 port for high-speed wired connectivity and data sharing.
- **Advanced Security:** WPA3 encryption and TP-Link HomeShield for comprehensive network protection and parental controls.
- **Easy Setup:** Simplified installation and management via the TP-Link Tether app.

2. PRODUCT OVERVIEW

2.1 Package Contents

The TP-Link Archer BE550 package includes:

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

2.2 Hardware Features

The Archer BE550 is designed for optimal performance and connectivity. Below are its key physical features:

Wi-Fi 7

WiFi 7

Débit extrêmement élevé



WiFi 6



WiFi 5



Transfert vraiment plus rapide

Grâce au WiFi 7 et au 4K-QAM,
l'Archer BE550 offre des vitesses nettement
supérieures à celles des cartes WiFi 6 / 6E.



Figure 1: Rear view of the Archer BE550 router, highlighting the 2.5 Gigabit Ethernet ports and USB 3.0 port.

- **Ports:** One 2.5 Gigabit WAN port and four 2.5 Gigabit LAN ports for high-speed wired connections. One USB 3.0 port for file sharing and storage.
- **Antennas:** Six internal antennas strategically positioned to provide wide and consistent Wi-Fi coverage throughout your home.
- **LED Indicators:** Status LEDs on the front panel indicate power, internet connectivity, and Wi-Fi status.
- **Buttons:** Power On/Off, Wi-Fi On/Off, Reset button.



Figure 2: Detailed diagram of the Archer BE550's rear panel, illustrating the 2.5G WAN port, four 2.5G LAN ports, and the USB 3.0 port.

3. SETUP GUIDE

Setting up your Archer BE550 router is a straightforward process, primarily guided by the TP-Link Tether app.

3.1 Initial Connection

1. **Power On:** Connect the power adapter to the router and plug it into a power outlet.
2. **Connect to Modem:** Use the provided Ethernet cable to connect your modem's Ethernet port to the Archer BE550's 2.5G WAN port.
3. **Connect Devices:** For initial setup, you can connect a computer to one of the router's LAN ports using an Ethernet cable, or connect wirelessly to the default Wi-Fi network (details found on the router's label).

3.2 Configuration via TP-Link Tether App

The TP-Link Tether app offers the easiest way to configure your router:

1. **Download App:** Download the TP-Link Tether app from the App Store (iOS) or Google Play (Android).
2. **Launch and Log In:** Open the app and log in with your TP-Link ID. If you don't have one, create it.
3. **Add Router:** Tap the '+' icon in the app and select 'Router' to follow the on-screen instructions for setup. This typically involves creating a new Wi-Fi name and password.

Alternatively, you can use a web browser by navigating to <http://tplinkwifi.net> and following the setup wizard.

4. OPERATING INSTRUCTIONS

4.1 Wi-Fi 7 Tri-Band Operation

The Archer BE550 operates on three distinct Wi-Fi bands: 2.4 GHz, 5 GHz, and 6 GHz. This tri-band capability, combined with Wi-Fi 7 enhancements like 320 MHz channels and MLO, ensures optimal performance for all your devices.



Figure 3: Overview of Wi-Fi 7 technology features, including Multi-Link Operation (MLO), 320 MHz channel width, 4K-QAM, and Multi-RUs, which contribute to lower latency and higher speeds.

- **2.4 GHz Band:** Ideal for older devices and extending Wi-Fi range, offering speeds up to 574 Mbps.
- **5 GHz Band:** Provides faster speeds for modern devices, suitable for streaming and gaming, with speeds up to 2882 Mbps.
- **6 GHz Band:** The newest band, offering the highest speeds (up to 5760 Mbps) and lowest latency for Wi-Fi 7 compatible devices, minimizing interference.



Figure 4: Visual comparison of data transfer speeds across Wi-Fi 5, Wi-Fi 6, and Wi-Fi 7, illustrating the substantial performance increase with Wi-Fi 7.

4.2 EasyMesh Compatibility

The Archer BE550 is EasyMesh compatible, allowing you to create a seamless whole-home mesh Wi-Fi network by adding other EasyMesh-compatible devices. This eliminates Wi-Fi dead zones and provides a single, unified network name for continuous roaming.

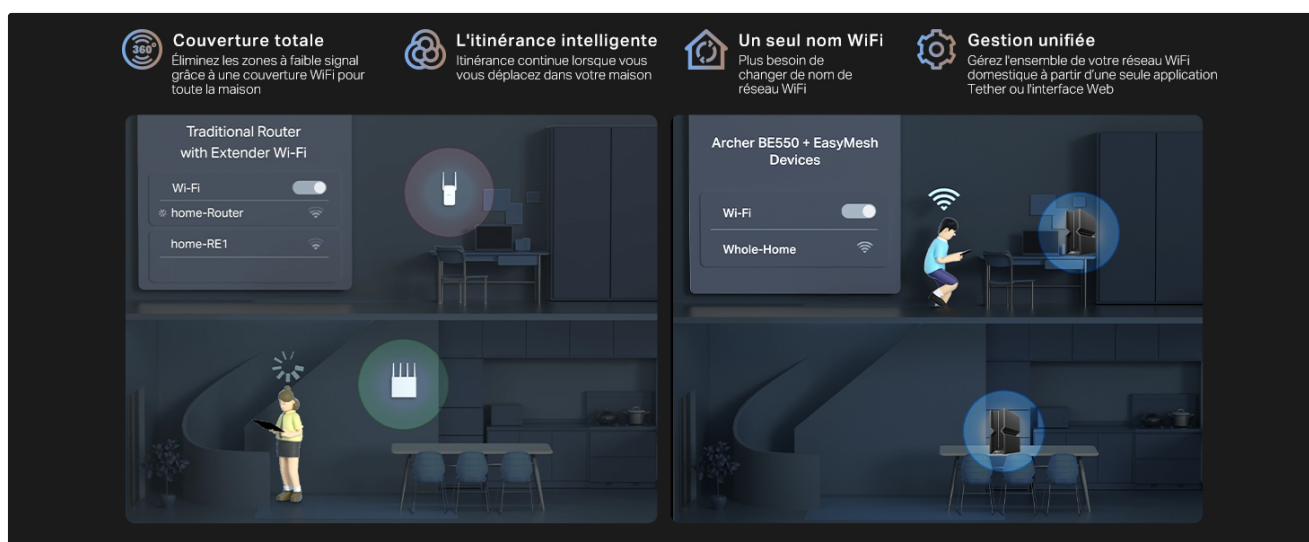


Figure 5: Comparison of network coverage and management between a traditional router with an extender and an EasyMesh system with the Archer BE550, demonstrating unified and broader coverage.

4.3 TP-Link HomeShield

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

- **Network Protection:** Real-time scanning to detect potential threats and security issues.
- **Parental Controls:** Manage online time and block inappropriate content to ensure family safety.
- **Quality of Service (QoS):** Prioritize bandwidth for your favorite devices or activities to ensure optimal performance.
- **IoT Private Network:** Configure a distinct Wi-Fi network for IoT devices, layered with advanced WPA3 encryption for enhanced security.

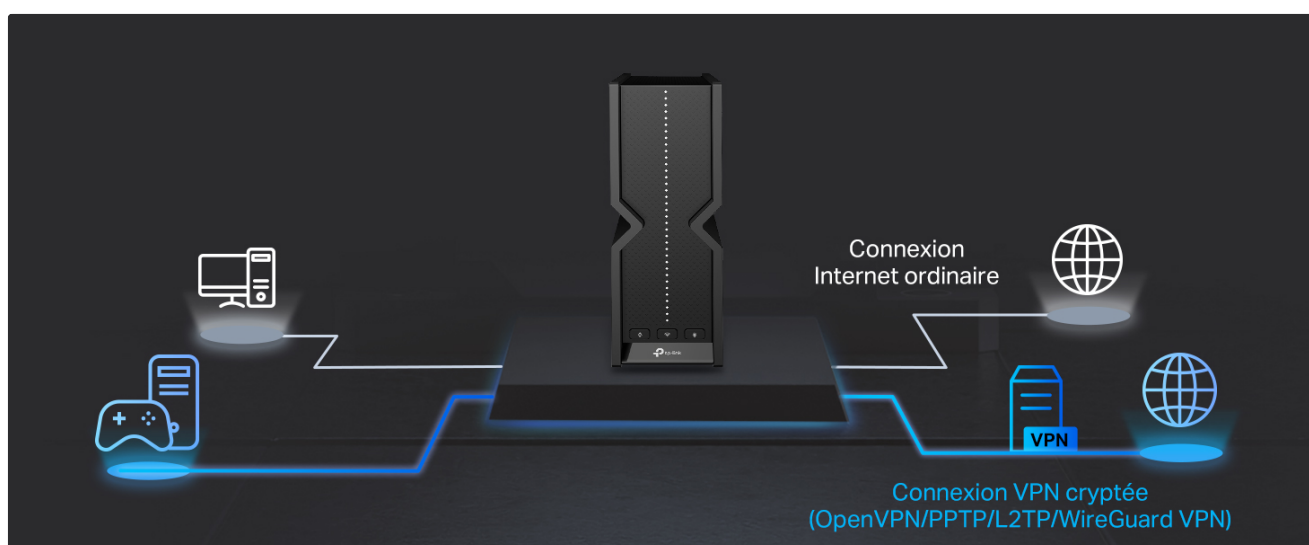


Figure 6: Visual representation of HomeShield's core functionalities: network scanning for security, parental controls for managing online access, and Quality of Service for optimizing device connections.

4.4 VPN Client and Server

The Archer BE550 supports VPN client and server functionalities, allowing you to securely access your home network remotely or connect to VPN services for enhanced privacy.

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Video 1: Product presentation and key functions of a TP-Link router, including an overview of its features and capabilities. This video is provided by the seller.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your router.

- **Firmware Updates:** Regularly check for and install firmware updates via the Tether app or the web interface. Updates often include performance improvements, new features, and security patches.
- **Placement:** Place the router in a central location, away from obstructions and interference sources (e.g., microwaves, cordless phones) to maximize Wi-Fi coverage.
- **Cleaning:** Keep the router clean and free of dust to ensure proper ventilation.
- **Reboot:** Periodically reboot the router to clear its memory and refresh network connections.

6. TROUBLESHOOTING

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

- **No Internet Access:**
 - Check if your modem is working correctly.
 - Ensure the Ethernet cable from the modem is securely connected to the router's WAN port.
 - Reboot both your modem and router.
- **Weak Wi-Fi Signal:**
 - Relocate the router to a more central position.
 - Minimize physical obstructions (walls, large furniture).
 - Consider using EasyMesh to extend coverage.
- **Slow Speeds:**
 - Ensure your devices are connected to the appropriate Wi-Fi band (5 GHz or 6 GHz for higher speeds).
 - Check for background applications consuming bandwidth.
 - Update network drivers on your devices.
- **Forgotten Wi-Fi Password or Router Login:**
 - Use the Tether app to retrieve or reset passwords.
 - If necessary, perform a factory reset by pressing the Reset button on the router for 5-10 seconds. Note that this will erase all custom settings.

For further assistance, refer to the TP-Link support website or contact customer service.

7. SPECIFICATIONS

Feature	Description
Brand	TP-Link
Model Number	Archer BE550
Wireless Technology	Wi-Fi 7 (802.11be)
Frequency Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)

Wi-Fi Speeds	BE9300 (5760 Mbps on 6 GHz, 2882 Mbps on 5 GHz, 574 Mbps on 2.4 GHz)
Ethernet Ports	1x 2.5G WAN Port, 4x 2.5G LAN Ports
USB Port	1x USB 3.0 Port
Antennas	6x Internal Antennas
Special Features	Guest Mode, EasyMesh, HomeShield
Dimensions (L x W x H)	23.2 x 7.6 x 20.3 cm (9.13 x 2.99 x 7.99 inches)
Weight	1.09 kg (2.4 lbs)

8. WARRANTY AND SUPPORT

The TP-Link Archer BE550 router comes with a **2-year manufacturer's warranty**. For technical support, warranty claims, or additional resources, please visit the official TP-Link support website or contact their customer service. The Quick Installation Guide included in your package also contains contact information and initial support steps.