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TP-Link Archer AXE300

TP-Link AXE16000 Quad-Band WiFi 6E Router (Archer AXE300) Instruction Manual

Model: Archer AXE300 | Brand: TP-Link

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your TP-Link AXE16000 Quad-Band WiFi 6E Router (Archer AXE300). Please read this guide thoroughly to ensure optimal performance and network security.

What's in the Box

- 1 x Archer AXE300 Router
- 1 x Power Adapter
- 1 x RJ45 Ethernet Cable
- 1 x Quick Installation Guide

2. PRODUCT OVERVIEW

The Archer AXE300 is a high-performance Quad-Band WiFi 6E router designed for demanding network environments, offering exceptional speed, coverage, and advanced features.

Key Features

- **AXE16000 Quad-Band Wi-Fi:** Delivers Wi-Fi speeds up to an unprecedented 15.6 Gbps across 6GHz, dual 5GHz, and 2.4GHz bands.
- **Dual 10G Ports:** Features a 10 Gbps WAN/LAN Port and a 10 Gbps SFPplus/RJ45 Combo WAN/LAN Port for ultra-high-speed internet access and faster NAS transmissions.
- **Next-Gen Processing:** Equipped with a powerful Quad-Core CPU for faster gaming, browsing, streaming, and downloading.
- **Wi-Fi 6E Unleashed:** Utilizes the new 6 GHz band for more bandwidth, faster speeds, and near-zero latency.
- **Maximized Coverage:** Eight high-performance antennas provide extensive Wi-Fi coverage throughout

your home.

- **VPN Server and Client:** Supports both VPN Server and VPN Client (OpenVPN/PPTP/L2TP) for secure network access.
- **TP-Link HomeShield:** Premium security service with basic network security, parental controls, Quality of Service (QoS), and weekly/monthly reports.

Image: The TP-Link AXE16000 Quad-Band WiFi 6E Router (Archer AXE300) with its eight antennas extended.
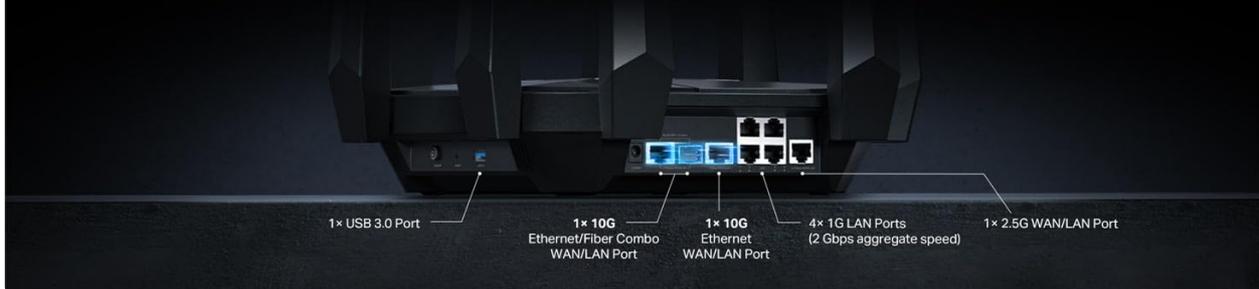
Image: Rear view of the Archer AXE300 router, highlighting the dual 10G WAN/LAN ports, SFP+/RJ45 combo port, 2.5G WAN/LAN port, and four Gigabit LAN ports.

3. SETUP

Follow these steps to set up your Archer AXE300 router. You can use either the TP-Link Tether app or a web browser for initial configuration.

3.1 Hardware Connection

1. **Power Off Modem:** Unplug the power from your modem. If it has a backup battery, remove it.

2. **Connect Router:** Connect your modem to the router's WAN port (usually blue) using an Ethernet cable.

3. **Power On Modem:** Plug in and power on your modem. Wait approximately 2 minutes for it to restart.

4. **Power On Router:** Connect the power adapter to the router and turn it on.

5. **Verify LED Status:** Wait for the router's LEDs to stabilize. The Power, 2.4GHz, 5GHz, 6GHz, and Internet LEDs should be solid green, indicating a successful connection.

   Video: An official TP-Link video demonstrating the physical setup and port overview of the Archer AXE300 router.

3.2 Network Setup (via TP-Link Tether App)

1. **Download Tether App:** Download the TP-Link Tether app from the App Store or Google Play.

2. **Log In/Create TP-Link ID:** Open the Tether app and log in with your TP-Link ID. If you don't have one, create an account.

3. **Add Router:** Tap the '+' button in the Tether app, select 'Router' > 'Wireless Router', and follow the on-screen steps to complete the setup and connect to the internet.

4. **Set Wi-Fi Network Name and Password:** Customize your Wi-Fi network names (SSIDs) and passwords for each band (2.4GHz, 5GHz-1, 5GHz-2, 6GHz).

3.3 Network Setup (via Web Browser)

1. **Connect to Router:** Connect your device to the router wirelessly or with an Ethernet cable. The default Wi-Fi network names (SSIDs) and password are printed on the label at the bottom of the router.

2. **Launch Web Browser:** Open a web browser and enter http://tplinkwifi.net or http://192.168.0.1 in the address bar.

3. **Create Password:** Create a password to log in.

4. **Follow Instructions:** Follow the step-by-step instructions to set up the internet connection and register for the TP-Link Cloud service.

4. Operating Instructions

Manage your network settings and connected devices through the Tether app or the web management interface.

4.1 Wi-Fi Settings

- **Smart Connect:** Enable or disable Smart Connect to combine 2.4GHz, 5GHz, and 6GHz bands into a single network name for optimal performance.
- **Separate Bands:** If Smart Connect is disabled, you can configure individual SSIDs and passwords for each band (2.4GHz, 5GHz-1, 5GHz-2, 6GHz).
- **Guest Network:** Create separate guest networks for visitors, with options to enable/disable specific bands and set security.

4.2 Client Management

- View all connected clients in real-time.
- Set speed limits for individual devices.
- Block unwanted devices from accessing your network.

5. Advanced Features

5.1 TP-Link HomeShield

HomeShield provides comprehensive network protection and parental controls:

- **Network Security:** Includes security scan, IoT device identification, intrusion prevention, and antivirus protection (some features may require a Pro Plan subscription).
- **Parental Controls:** Manage online time, filter content, and create usage schedules for family members.
- **Quality of Service (QoS):** Prioritize devices or activities to ensure optimal performance for critical applications.

Image: Overview of TP-Link HomeShield features, including Home Network Scanner, Parental Controls, and Quality of Service.

5.2 VPN Client and Server

The Archer AXE300 supports both VPN Client and VPN Server functionalities, allowing secure remote access to your network or connecting to VPN services directly from the router.
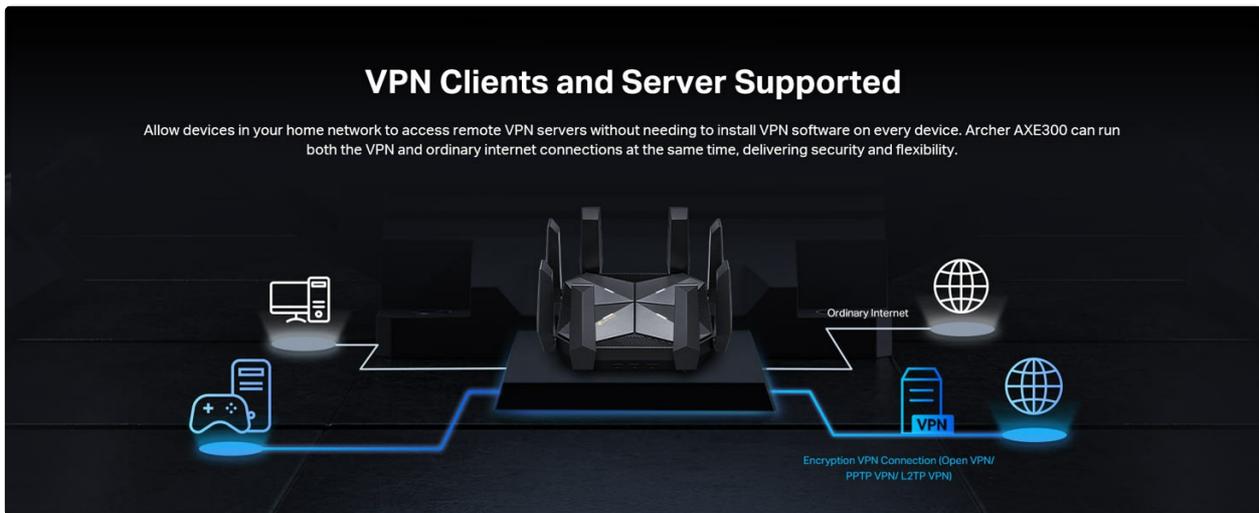

Image: Diagram illustrating how the Archer AXE300 supports both VPN client and server connections for enhanced security and flexibility.

5.3 TP-Link OneMesh

Easily create a whole-home mesh Wi-Fi system by connecting OneMesh-compatible range extenders to the Archer AXE300 for seamless coverage and a single Wi-Fi name.
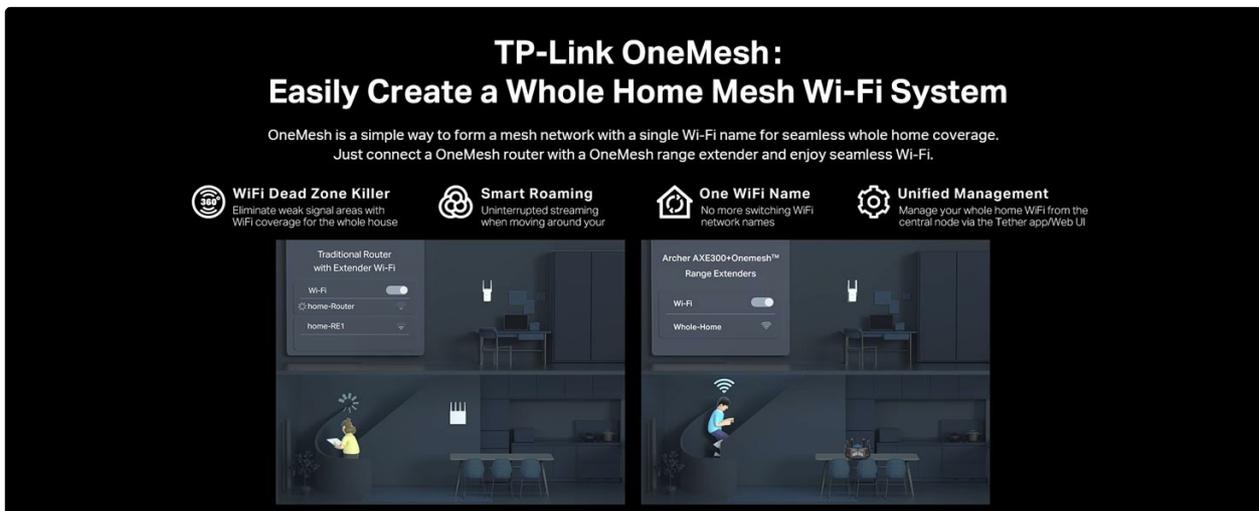

Image: Illustration comparing traditional router with extender Wi-Fi versus a TP-Link OneMesh system for seamless whole-home coverage.

5.4 Smart Life Assistant (Alexa)

Connect your router to Alexa to control certain features using voice commands, such as prioritizing gaming or reading out the guest network password.

6. MAINTENANCE

Regular maintenance ensures your router operates efficiently and securely.

- **Firmware Updates:** Check for and install the latest firmware updates via the Tether app or web interface to ensure optimal performance and security.

- **Backup & Restore:** Back up your router's configuration settings to a file and restore them if needed.
- **Reboot Schedule:** Set a schedule for your router to automatically reboot, which can help maintain performance.

7. TROUBLESHOOTING

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

- **Check Connections:** Ensure all cables are securely connected to the router and modem.
- **Restart Devices:** Power cycle your modem and router by unplugging them for 30 seconds and then plugging them back in.
- **Verify LED Status:** Check the router's LEDs to diagnose connection issues (e.g., solid green for active, blinking for activity, red/orange for issues).
- **Network Diagnostics:** Use the built-in network diagnostics tool in the web interface to identify and resolve common network problems.
- **Wi-Fi Interference:** If experiencing slow Wi-Fi speeds, check for Wi-Fi interference in the HomeShield section of the web interface and optimize channels if necessary.
- **Reset Router:** If problems persist, perform a factory reset. Locate the Reset button on the router (often a small pinhole) and press and hold it for about 10 seconds until the LEDs flash. Note: This will erase all your custom settings.

8. SPECIFICATIONS

Feature	Detail
Model Name	Archer AXE300
Product Dimensions	9.13 x 9.13 x 2.68 inches
Item Weight	3.37 pounds
Frequency Band Class	Quad-Band (2.4GHz, 5GHz-1, 5GHz-2, 6GHz)
Wireless Communication Standard	802.11ac, 802.11ax, 802.11b, 802.11g, 802.11n
Connectivity Technology	Ethernet, USB, Wi-Fi
Ports	Dual 10Gbps WAN/LAN, 2.5Gbps WAN/LAN, 4 x Gigabit LAN, 1 x USB 3.0
Special Feature	Access Point Mode, Guest Mode, QoS, VPN Server/Client, OneMesh
Compatible Devices	Personal Computer, Gaming Consoles, Smart Home Devices
Recommended Uses	Business, Gaming, Home
Color	Black

9. WARRANTY AND SUPPORT

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

Link website.

Contact Support

- **Phone:** (866) 225-8139
- **Website:** myproducts.tp-link.com/us
- **Email:** support.USA@tp-link.com