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> TP-Link AX3000 Smart WiFi 6 Router (Archer AX50) User Manual

TP-Link Archer AX50

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Model: Archer AX50

1. PRODUCT OVERVIEW

The TP-Link AX3000 Smart WiFi 6 Router (Archer AX50) is a high-performance dual-band gigabit router designed to provide fast, reliable, and secure internet connectivity for your home or office. Featuring Wi-Fi 6 (802.11ax) technology, it offers significantly improved speeds, capacity, and reduced latency compared to previous Wi-Fi standards.



Figure 1: Front view of the TP-Link AX3000 Smart WiFi 6 Router.

Key Features:

- **Wi-Fi 6 Technology:** Achieves up to 3x faster speeds, 4x capacity, and 75% lower latency compared to Wi-Fi 5.
- **Next-Gen 3 Gbps Speeds:** Dual-band router reaches speeds up to 2402 Mbps on the 5 GHz band and 574 Mbps on the 2.4 GHz band.
- **Increased Device Capacity:** Simultaneously communicates more data to more devices using revolutionary OFDMA technology.
- **Reduced Lag:** Experience ultra-smooth entertainment for 4K videos, online gaming, and video chatting with up to 75% reduced lag.
- **Target Wake Time (TWT):** Reduces device power consumption to extend battery life.
- **Advanced Security:** Includes a free lifetime subscription to TP-Link HomeCare™ featuring next-level antivirus, robust parental controls, and QoS.
- **Broad Compatibility:** Works with all internet service providers (modem required).

2. PACKAGE CONTENTS

Before you begin, please verify that your package contains the following items:

- TP-Link AX3000 Smart WiFi 6 Router (Archer AX50)
- Power Adapter
- Ethernet Cable

3. SETUP AND INSTALLATION

Follow these steps to set up your TP-Link Archer AX50 router. For a visual guide, please refer to the setup video below.



Figure 2: Rear view of the router showing WAN, LAN, and USB ports.

1. **Position the Router:** Place the router horizontally on a flat surface. Orient the four external antennas vertically for optimal Wi-Fi coverage.
2. **Connect the Modem:** Turn off your modem. If your modem has a backup battery, remove it. Plug one end of the provided Ethernet cable into the WAN port (blue) of the Archer AX50 router and the other end into your modem's Ethernet port.
3. **Power On:** Connect the power adapter to the router's power port and plug it into a power outlet. Turn on your modem. Wait approximately 2 minutes for the router to start up. The LED indicators on the front of the router should stabilize.
4. **Connect to Wi-Fi:** Find the default Wi-Fi network name (SSID) and password on the Wi-Fi Info Card provided with your router. Connect your computer or mobile device to this Wi-Fi network.
5. **Complete Setup via Tether App or Web Browser:**
 - **Tether App (Recommended):** Download the TP-Link Tether app from the App Store or Google Play. Open the app and follow the on-screen instructions to complete the setup.
 - **Web Browser:** Launch a web browser on a connected device. Enter `http://tplinkwifi.net` or `http://192.168.0.1` in the address bar. Create a password to log in and follow the setup wizard.

Official Setup Video:

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Video: How to set up Archer AX50 Wi-Fi 6 Router. This official TP-Link video provides a step-by-step guide to installing and configuring your router.

4. OPERATING YOUR ROUTER

Once set up, your Archer AX50 router provides a robust and secure wireless network. You can manage various

settings and features through the Tether app or the web management interface.

Wireless Connectivity:

The router operates on dual bands (2.4 GHz and 5 GHz) to provide flexible and high-speed connections. Devices will automatically connect to the optimal band for performance.

Wired Connections:

The Archer AX50 features four Gigabit LAN ports, allowing you to connect wired devices such as desktop computers, gaming consoles, and smart TVs for stable and high-speed internet access.



Figure 3: The Archer AX50 router seamlessly integrates into a home network environment.

TP-Link HomeCare™ Security:

HomeCare provides comprehensive security features to protect your network and connected devices. This includes:

- **Antivirus:** Protects against malicious websites and malware.
- **Parental Controls:** Manage and monitor internet access for children, including content filtering and time limits.
- **Quality of Service (QoS):** Prioritize devices or activities to ensure optimal performance for critical applications like gaming or video streaming.

HomeCare Overview Video:

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Video: TP-Link HomeCare - Get Protected. Learn about the security features offered by TP-Link HomeCare to safeguard your network.

5. MAINTENANCE

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

- **Firmware Updates:** Regularly check for and install the latest firmware updates through the Tether app or web interface. Firmware updates often include performance improvements, bug fixes, and security

enhancements.

- **Proper Placement:** Place the router in a central location, away from obstructions and other electronic devices that may cause interference. Ensure adequate ventilation to prevent overheating.
- **Periodic Reboot:** Rebooting your router periodically (e.g., once a month) can help clear its memory and resolve minor performance issues.

6. TROUBLESHOOTING

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

- **No Internet Access:**
 - Check all cable connections between the modem and router.
 - Verify that your modem is working correctly.
 - Reboot both the modem and the router.
 - Contact your Internet Service Provider (ISP) if the issue persists.
- **Slow Wi-Fi Speeds:**
 - Ensure your devices are connected to the 5 GHz band if possible, as it offers faster speeds.
 - Reduce the number of active devices or bandwidth-intensive activities.
 - Check for Wi-Fi interference from other electronic devices.
 - Update your router's firmware and your device's wireless drivers.
- **Cannot Connect to 802.11ax Router Wirelessly:** Some older versions of wireless device driver software may be incompatible with 802.11ax. Update your wireless adapter's driver to the latest version.

7. SPECIFICATIONS

Brand	TP-Link
Model Name	Archer AX3000
Item Model Number	Archer AX50
Product Dimensions	12.99 x 2.95 x 9.65 inches
Item Weight	1.2 pounds
Frequency Band Class	Dual-Band
Wireless Communication Standard	802.11n, 802.11ax, 802.11ac
Connectivity Technology	Wi-Fi, USB, Ethernet
Special Features	Beamforming, QoS, Internet Security, WPS, Alexa compatible, Parental Control

8. WARRANTY AND SUPPORT

The TP-Link AX3000 Smart WiFi 6 Router (Archer AX50) includes a free lifetime subscription to TP-Link HomeCare™ for enhanced security features. Please note that "Lifetime Subscription" refers solely to the life of the purchased device and cannot be transferred.

For detailed warranty information and technical support, please refer to the official [User Manual \(PDF\)](#) or visit the [TP-Link Store on Amazon](#).