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> TP-Link Archer AX53 AX3000 Wi-Fi 6 Router User Manual

## TP-Link Archer AX53

# TP-Link Archer AX53 AX3000 Wi-Fi 6 Router User Manual

Model: Archer AX53

## 1. PRODUCT OVERVIEW

The TP-Link Archer AX53 is a high-performance AX3000 Dual-Band Gigabit Wi-Fi 6 Router designed to deliver faster speeds, greater capacity, and reduced network congestion for your home network. It supports the latest Wi-Fi 6 (802.11ax) standard, offering advanced features like OFDMA and 1024-QAM for improved efficiency and throughput.



Figure 1.1: Front view of the Archer AX53 Router.

## Key Features:

- **AX3000 Dual-Band Wi-Fi 6:** Delivers up to 2402 Mbps on the 5 GHz band and 574 Mbps on the 2.4 GHz band for a total of 3000 Mbps.
- **Gigabit Ports:** Equipped with one Gigabit WAN port and four Gigabit LAN ports for high-speed wired connections.
- **TP-Link HomeShield:** Provides comprehensive network protection, robust parental controls, Quality of Service (QoS), and detailed network reports.
- **OneMesh™ Compatible:** Works with TP-Link OneMesh extenders to create a seamless whole-home mesh network.
- **WPA3 Security:** The latest Wi-Fi security protocol for enhanced network protection.
- **OFDMA & 1024-QAM:** Improves network efficiency and allows more devices to connect simultaneously without performance degradation.
- **4 High-Performance Antennas:** Ensures broad coverage and strong signal strength throughout your home.
- **Smart Power Saving (Target Wake Time):** Reduces power consumption for connected devices, extending battery life.
- **Backward Compatibility:** Supports all previous 802.11a/b/g/n/ac Wi-Fi standards.



Figure 1.2: Rear panel of the Archer AX53 Router with ports and buttons.

## 2. HARDWARE INSTALLATION

Follow these steps to properly install your Archer AX53 router.

### 2.1 Position the Router

Place the router in a central location in your home, away from obstructions and devices that generate electromagnetic interference (e.g., cordless phones, microwaves). Ensure the antennas are oriented vertically for optimal signal coverage.

## 2.2 Connect the Hardware

1. **Power Off:** Disconnect the power from your modem (if applicable) and router.
2. **Connect WAN Port:** Connect one end of an Ethernet cable to the WAN port (usually blue) on your Archer AX53 router and the other end to your modem's Ethernet port.
3. **Connect Power:** Connect the power adapter to the router's power port and plug it into a power outlet.
4. **Power On:** Power on your modem first, then wait for it to fully boot up. After that, power on your Archer AX53 router. Wait for the LED indicators on the router to stabilize, indicating it's ready.
5. **Connect Devices (Optional):** For wired connections, connect your computer or other devices to the router's LAN ports (yellow) using Ethernet cables.

## 3. INITIAL SETUP

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You can set up your Archer AX53 router using the TP-Link Tether app or a web browser.

### 3.1 Using the TP-Link Tether App (Recommended)

The Tether app provides an intuitive way to set up and manage your router from your mobile device.

1. **Download Tether App:** Scan the QR code below or search for "TP-Link Tether" in the Apple App Store or Google Play Store.



Scan to download the TP-Link Tether app.

2. **Connect to Router's Wi-Fi:** Connect your mobile device to the router's default Wi-Fi network (SSID and password are printed on the label on the bottom of the router).
3. **Launch Tether App:** Open the Tether app and follow the on-screen instructions to set up your router, including creating a new administrator password and configuring your Wi-Fi network name (SSID) and password.

### 3.2 Using a Web Browser

You can also set up the router using a web browser on a computer.

1. **Connect to Router:** Connect your computer to the router via an Ethernet cable (to any LAN port) or wirelessly to the router's default Wi-Fi network.
2. **Access Web Interface:** Open a web browser and type <http://tplinkwifi.net> or <http://192.168.0.1> into the address bar.
3. **Follow Setup Wizard:** Create a new administrator password when prompted. Then, follow the step-by-step instructions of the Quick Setup wizard to configure your internet connection and Wi-Fi settings.

## 4. OPERATING YOUR ROUTER

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Once set up, your Archer AX53 router provides a robust and secure Wi-Fi network. Here are some operational aspects.

### 4.1 Connecting to Wi-Fi

On your wireless device (smartphone, tablet, laptop), select your Wi-Fi network name (SSID) from the list of available networks and enter the Wi-Fi password you configured during setup.

### 4.2 Using HomeShield™

TP-Link HomeShield provides a suite of security and management features. Access HomeShield settings via the Tether app or the web management interface.

- **Network Protection:** Detects and blocks malicious websites and protects against cyber threats.
- **Parental Controls:** Manage and monitor internet usage for family members, set time limits, and block inappropriate content.
- **Quality of Service (QoS):** Prioritize devices or activities to ensure optimal performance for critical applications like gaming or streaming.
- **Comprehensive Reports:** View detailed insights into network usage and security events.

### 4.3 OneMesh™ Functionality

The Archer AX53 is OneMesh compatible. Pair it with a TP-Link OneMesh range extender to create a unified Wi-Fi network that covers your entire home, eliminating dead zones and providing seamless roaming.

### 4.4 WPS/Wi-Fi Button

Press the WPS/Wi-Fi button on the rear panel to quickly connect WPS-compatible devices without entering the Wi-Fi password. Press and hold the button for more than 2 seconds to turn the Wi-Fi radio on or off.

## 5. MAINTENANCE

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Regular maintenance helps ensure the optimal performance and longevity of your router.

- **Firmware Updates:** Periodically check for and install the latest firmware updates via the Tether app or web management interface. Firmware updates often include performance improvements, bug fixes, and security enhancements.
- **Regular Reboot:** Rebooting your router every few weeks can help clear its memory and resolve minor performance issues.
- **Physical Cleaning:** Keep the router free from dust. Use a soft, dry cloth to clean the exterior. Do not use liquid cleaners.
- **Environmental Conditions:** Ensure the router is placed in a well-ventilated area and not exposed to extreme temperatures or humidity.

## 6. TROUBLESHOOTING

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

- **No Internet Access:**
  - Check all cable connections between the modem, router, and your devices. Ensure the WAN port LED is lit.
  - Reboot your modem and router. Power off both, wait 30 seconds, then power on the modem first, wait for it to fully boot, then power on the router.
  - Verify your internet service provider (ISP) connection is active.
- **Weak Wi-Fi Signal or Dead Zones:**
  - Relocate the router to a more central position in your home.
  - Avoid placing the router near large metal objects, concrete walls, or interference-generating devices.
  - Consider adding a TP-Link OneMesh range extender to expand coverage.

- **Forgot Wi-Fi Password or Administrator Password:**

- The default Wi-Fi password is on the label at the bottom of the router.
- To reset the administrator password or all router settings, press and hold the Reset button on the rear panel for approximately 10 seconds until the LEDs flash. The router will revert to factory default settings.

- **Slow Internet Speed:**

- Ensure your devices are connected to the 5 GHz band for higher speeds if supported.
- Check for bandwidth-intensive applications running in the background.
- Utilize QoS settings in HomeShield to prioritize important traffic.

## 7. SPECIFICATIONS

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Detailed technical specifications for the Archer AX53 router.

Feature	Specification
Model Number	Archer AX53
Wireless Standard	IEEE 802.11ax/ac/n/a 5 GHz, IEEE 802.11ax/n/b/g 2.4 GHz
Wi-Fi Speeds	AX3000 (2402 Mbps on 5 GHz, 574 Mbps on 2.4 GHz)
Antennas	4 Fixed High-Performance Antennas
Ethernet Ports	1 Gigabit WAN Port, 4 Gigabit LAN Ports
Dimensions (WxDxH)	10.2 x 5.3 x 1.6 inches (260.2 x 135.0 x 41.6 mm)
Item Weight	14.8 ounces (420 Grams)
Security	WPA3, WPA2, WPA, WEP
Special Features	HomeShield, OneMesh, OFDMA, 1024-QAM, Target Wake Time (TWT), WPS
Power Supply	External Power Adapter (included)

*Note: Specifications are subject to change without notice.*

## 8. WARRANTY AND SUPPORT

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TP-Link provides comprehensive support for its products.

### 8.1 Product Warranty

The TP-Link Archer AX53 router comes with a **3-Year Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

### 8.2 Technical Support

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

[www.tp-link.com/support](http://www.tp-link.com/support)

You can also find FAQs and community forums on the support page to help resolve common issues.



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