

## TP-Link Archer AX80/A

# TP-Link Archer AX80/A AX6000 WiFi 6 Router User Manual

Model: Archer AX80/A

## 1. INTRODUCTION

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The TP-Link Archer AX80/A is a high-performance AX6000 WiFi 6 router designed to deliver ultra-fast wireless speeds and enhanced network capacity. Featuring advanced technologies like OFDMA, MU-MIMO, and 8-stream connectivity, it ensures a stable and efficient network experience for numerous connected devices, including smartphones, tablets, and IoT devices. This manual provides detailed instructions for setting up, operating, and maintaining your Archer AX80/A router.



Figure 1: TP-Link Archer AX80/A WiFi 6 Router



Figure 2: Archer AX80/A highlighting OFDMA, MU-MIMO, and 8-stream technology for 4x capacity.

## 2. PACKAGE CONTENTS

Verify that your package contains the following items:

- TP-Link Archer AX80/A AX6000 WiFi 6 Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide

### 3. PHYSICAL OVERVIEW

#### 3.1 Ports and Buttons

The Archer AX80/A router features various ports and buttons for connectivity and control.

**たくさん接続しても  
余裕の安定感**

スマホ・タブレットはもちろん、IoT機器が増えても  
安定的なネット環境を構築します。

**4x Capacity**

**OFDMA**  
1つのストリームで  
複数端末との通信を可能にし、  
効率性を大幅に引き上げます。

**MU-MIMO**  
複数のストリームを使用して  
同時に複数の端末と  
通信します。

**8ストリーム**  
8つのストリームで  
ネットワークの  
信頼性と速度が向上。

Figure 3: Rear view showing the 2.5Gbps WAN/LAN port, Gigabit LAN ports, and power input.

- **2.5Gbps WAN/LAN Port:** One port for high-speed internet connection or LAN device.
- **Gigabit WAN/LAN Port:** One port for standard internet connection or LAN device.
- **Gigabit LAN Ports:** Three ports for connecting wired devices.
- **USB 3.0 Port:** One port for connecting external storage devices for network sharing.
- **Power On/Off Button:** To power the router on or off.

- **Reset Button:** To restore factory default settings (use a pin to press and hold).



Figure 4: Close-up of the USB 3.0 port.

### 3.2 Placement Options

The Archer AX80/A offers flexible placement options to suit your environment.

# スマホで かんたん初期設定

アプリから初期設定など  
Wi-Fiルーターの設定が直感的に可能に。



Figure 5: Router can be placed vertically, wall-mounted, or horizontally.

## 4. SETUP GUIDE

## 4.1 Hardware Connection

1. Power off your modem and remove the backup battery if it has one.
2. Connect the modem to the router's WAN port (usually the 2.5Gbps port) using an Ethernet cable.
3. Power on the modem, then power on the router.
4. Wait for the router's LED indicators to stabilize, indicating a successful connection.

## 4.2 Easy Setup via TP-Link Tether App

The TP-Link Tether app provides an intuitive way to set up and manage your router from your smartphone or tablet.

1. Download the TP-Link Tether app from the App Store or Google Play.
2. Connect your mobile device to the router's default Wi-Fi network (SSID and password are on the router's label).
3. Open the Tether app and follow the on-screen instructions to complete the initial setup, including creating a TP-Link ID, setting up your Wi-Fi name and password, and configuring internet settings.



Figure 6: Initial setup and management using the TP-Link Tether app.

## 5. OPERATING INSTRUCTIONS

## 5.1 Connecting Devices

- **Wireless Connection:** Search for your Wi-Fi network name (SSID) on your device and enter the password you set during setup.
- **Wired Connection:** Connect your computer or other wired devices to the router's LAN ports using Ethernet cables.



The advertisement features the TP-Link logo and 'based in USA' at the top. Below this is the large Japanese text '米国基準のセキュリティ' (Security based on US standards). The central graphic shows the words 'SECURE BY DESIGN' in a 3D, isometric font with a blue and red color scheme, set against a background of a stylized American flag. Below the graphic, Japanese text explains that the concept is endorsed by CISA and emphasizes security from the design phase through development and maintenance.

tp-link based in USA

# 米国基準のセキュリティ

SECURE BY DESIGN

アメリカ政府機関サイバーセキュリティ・インフラセキュリティ庁 (CISA) が推進する「Secure-by-Design (設計段階からのセキュリティ組み込み)」に著名。

設計・開発・維持のすべてで、高度なセキュリティを実現します。

Figure 7: Illustrates Wi-Fi coverage within a home environment.

## 5.2 Managing Your Network

You can manage your router settings through the TP-Link Tether app or by accessing the web

management interface via a web browser (typically at <http://tplinkwifi.net> or <http://192.168.0.1>).

- Change Wi-Fi settings (SSID, password, security type).
- Monitor connected devices.
- Configure advanced network settings.

## 6. ADVANCED FEATURES

### 6.1 OneMesh™ Support

The Archer AX80/A supports TP-Link OneMesh™, allowing you to create a seamless whole-home Wi-Fi network by connecting to OneMesh-compatible range extenders. This eliminates Wi-Fi dead zones and provides uninterrupted roaming.

# TP-Link OneMesh™ 搭載

同じく OneMesh™ 対応中継器と  
いっしょにメッシュ Wi-Fi 環境を構築。

通常のリーターと中継器の場合

Archer AX80/A + OneMesh™ 対応中継器の場合

マルチバンドで強固なメッシュ接続

超高速スマートローミング

まとめて管理

Figure 8: Comparison of standard router setup vs. OneMesh network for extended coverage.

### 6.2 VPN Client Functionality

The router includes VPN client functionality, enabling you to establish a secure VPN connection without needing additional VPN software on each device. It supports OpenVPN, PPTP VPN, and L2TP VPN protocols.



Figure 9: Diagram illustrating secure VPN connection via the router.

### 6.3 IPv6 IPoE Support

The Archer AX80/A supports IPv6 IPoE (IPv4 over IPv6), including v6 Plus, OCN Virtual Connect, and DS-Lite, ensuring compatibility with modern internet service provider configurations for optimal performance.

### 6.4 Parental Controls

Manage and control internet access for family members with robust parental control features available through the Tether app. Set time limits, block inappropriate content, and monitor usage.



Figure 10: Example of parental control settings in the Tether app.

### 6.5 WPA3 Security

The router supports WPA3, the latest Wi-Fi security protocol, providing enhanced encryption and protection against cyber threats for a more secure home network.



Figure 11: WPA3 security protocol for enhanced network protection.

### 6.6 US-Based Security Standards

TP-Link adheres to US government cybersecurity and infrastructure security agency (CISA) promoted "Secure-by-Design" principles, ensuring high-level security throughout design, development, and maintenance.

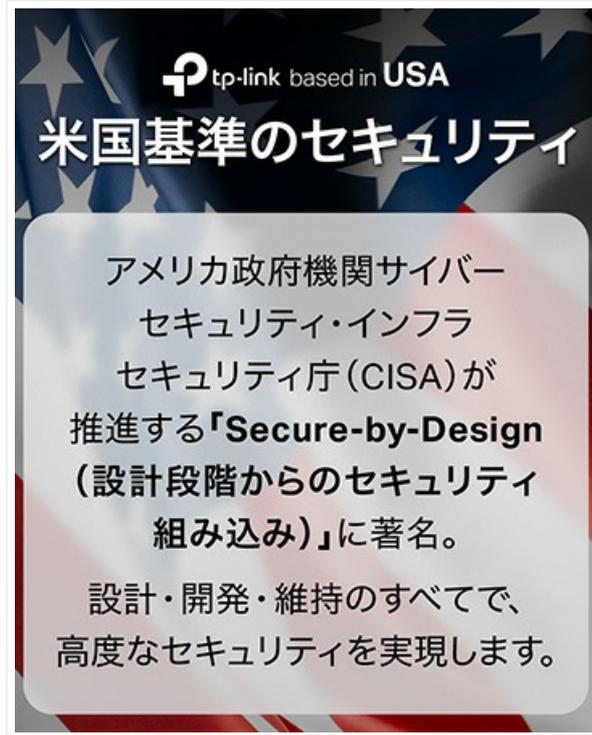


Figure 12: TP-Link's commitment to Secure-by-Design principles.

## 7. MAINTENANCE

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### 7.1 Firmware Updates

Regularly update your router's firmware to ensure optimal performance, security, and access to new features. Firmware updates can be performed via the Tether app or the web management interface.

1. Open the Tether app or log in to the web management interface.
2. Navigate to System Tools > Firmware Upgrade.
3. Follow the instructions to check for and install available updates.

### 7.2 Rebooting the Router

If you experience network issues, a simple reboot can often resolve them. You can reboot the router through the Tether app, web management interface, or by unplugging and replugging the power adapter.

## 8. TROUBLESHOOTING

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### 8.1 No Internet Access

- Check if your modem is working correctly.
- Ensure all cables are securely connected to the correct ports.
- Reboot both your modem and router.
- Verify your internet settings in the router's management interface.

### 8.2 Weak Wi-Fi Signal

- Relocate the router to a central location, away from obstructions and interference sources.

- Consider adding a TP-Link OneMesh™ compatible range extender to expand coverage.
- Adjust Wi-Fi channel settings in the router's management interface to avoid interference.

### 8.3 Forgotten Wi-Fi Password or Login Password

- The default Wi-Fi password is printed on the label at the bottom of the router.
- If you changed it and forgot, you can retrieve or reset it via the Tether app or web management interface.
- If you forgot the router's login password, you may need to perform a factory reset (see Section 3.1) and reconfigure the router.

## 9. SPECIFICATIONS

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Feature	Description
Brand	TP-Link
Model Name	Archer AX80/A
Wireless Standard	802.11ax (Wi-Fi 6)
Frequency Band Class	Dual-Band
Data Transfer Rate	AX6000 (4804 Mbps on 5GHz + 1148 Mbps on 2.4GHz)
Ports	1x 2.5Gbps WAN/LAN, 1x Gigabit WAN/LAN, 3x Gigabit LAN, 1x USB 3.0
Antenna Type	Internal
Security Protocol	WPA3
Management Method	Tether App, Web UI
Compatible Devices	Smartphones, Tablets, Laptops
Dimensions (L x W x H)	18.9 cm x 5.9 cm x 20 cm

## 10. WARRANTY AND SUPPORT

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### 10.1 Warranty Information

The TP-Link Archer AX80/A router comes with a **3-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use.

### 10.2 Technical Support

For technical support, firmware updates, and additional resources, please visit the official TP-Link website or contact TP-Link customer support. You can find contact information and FAQs on the TP-Link support page:

<https://www.tp-link.com/support/>

