

TP-Link Archer A8

TP-Link AC1900 Smart WiFi Router (Archer A8) User Manual

Comprehensive instructions for setup, operation, and maintenance of your TP-Link Archer A8 AC1900 Wireless Router.

1. INTRODUCTION

This manual provides detailed instructions for installing, configuring, and operating your TP-Link AC1900 Smart WiFi Router, model Archer A8. Please read this guide thoroughly to ensure proper setup and optimal performance of your device.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- TP-Link AC1900 Smart WiFi Router (Archer A8)
- Power Adapter
- RJ45 Ethernet Cable
- Quick Installation Guide

3. PHYSICAL OVERVIEW

Familiarize yourself with the router's components and indicators.



Figure 3.1: Front View of TP-Link Archer A8 Router. This image displays the top-down view of the TP-Link Archer A8 router, featuring its sleek black design and three external antennas. The front panel includes LED indicators for power, internet connectivity, Wi-Fi status, and Ethernet port activity.

Gigabit Ports for Reliability and Speed

Create fast, stable connections for your wired devices like PCs, smart TVs, gaming consoles and more.

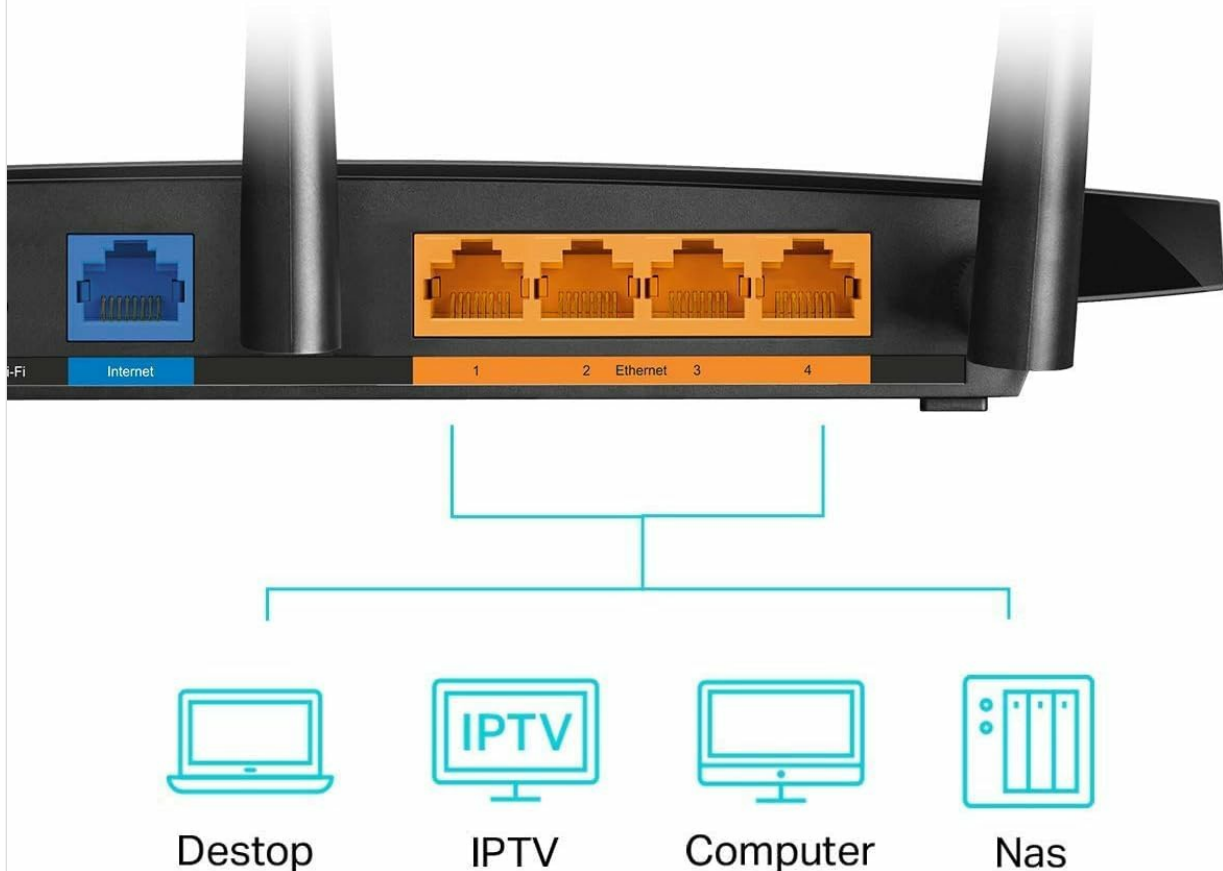


Figure 3.2: Rear Panel of TP-Link Archer A8 Router. This image shows the rear panel of the router, highlighting the Gigabit WAN port (blue) and four Gigabit LAN ports (orange). These ports are used for wired connections to your modem and other network devices.



Figure 3.3: Router Bottom Label. This label provides essential information including the model (Archer A8, AC1900 MU-MIMO Wi-Fi Router), power specifications (12V===1.5A), default access URL (<http://tplinkwifi.net>), MAC address

(F0:A7:31:C8:71:8D), serial number (Y239140001360), and default Wi-Fi network names (SSID: TP-Link_718D, TP-Link_718D_5G) with the default wireless password (50825233). It also includes FCC and RoHS compliance marks.

4. SETUP INSTRUCTIONS

1. **Power Off Your Modem:** Disconnect the power from your existing modem.
2. **Connect the Router:**
 - Connect your modem's Ethernet cable to the **WAN port** (blue) on the Archer A8 router.
 - Connect the power adapter to the router and plug it into a power outlet.
 - Power on your modem, then power on the router. Wait for the LED indicators to stabilize.
3. **Connect to the Router:**
 - **Wireless Connection:** Connect your computer or mobile device to the router's default Wi-Fi network. The default SSIDs (e.g., TP-Link_718D, TP-Link_718D_5G) and Wireless Password (e.g., 50825233) are printed on the router's bottom label (refer to Figure 3.3).
 - **Wired Connection:** Connect your computer to one of the router's **LAN ports** (orange) using an Ethernet cable.
4. **Configure the Router:**
 - Open a web browser and enter the default access URL: <http://tplinkwifi.net>.
 - Follow the on-screen instructions in the Quick Setup wizard to configure your internet connection and Wi-Fi settings. You will be prompted to create a new login password for the router.
 - Alternatively, use the TP-Link Tether App for mobile-based setup.

5. OPERATING INSTRUCTIONS

5.1. Connecting Devices

Once the router is set up, you can connect your devices:

- **Wireless Devices:** Search for your Wi-Fi network name (SSID) on your device and enter the password you configured during setup.
- **Wired Devices:** Connect devices like PCs, Smart TVs, or gaming consoles to the router's Gigabit LAN ports using Ethernet cables.

5.2. Dual-Band Wi-Fi

The Archer A8 operates on two frequency bands:

- **2.4GHz Band:** Provides wider coverage and better penetration through walls, ideal for general internet use and older devices. Offers speeds up to 600Mbps.
- **5GHz Band:** Offers faster speeds (up to 1300Mbps) and lower latency, suitable for bandwidth-intensive activities like 4K streaming and online gaming. Has a shorter range and is more susceptible to obstacles.

The router supports Smart Connect, which automatically assigns devices to the best available band for optimal performance.

5.3. MU-MIMO Technology

Connect More Devices with MU-MIMO

Archer A8 has 3 streams and can talk to multiple devices simultaneously to ensure maximum performance and efficiency.

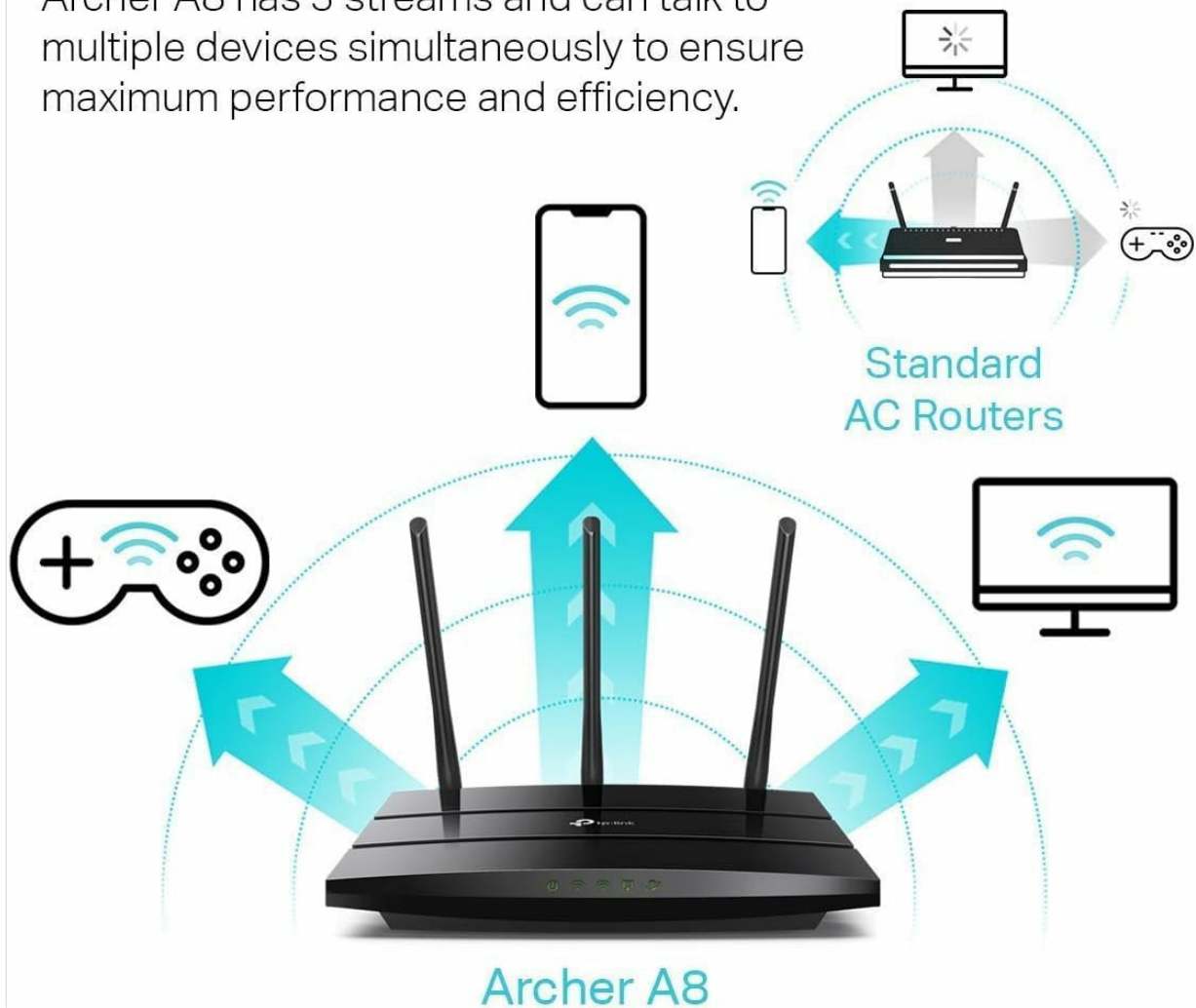


Figure 5.1: MU-MIMO Operation. This diagram illustrates how the Archer A8 router, equipped with MU-MIMO technology, can communicate with multiple devices simultaneously, unlike standard AC routers that communicate with one device at a time. This improves network efficiency and performance for all connected devices.

MU-MIMO (Multi-User, Multiple-Input, Multiple-Output) allows the Archer A8 to communicate with multiple devices simultaneously, rather than sequentially. This significantly improves network efficiency and throughput, especially in environments with many connected devices. For MU-MIMO to function, client devices must also support MU-MIMO.

5.4. Beamforming Technology

Boosted WiFi Coverage in Every Room of Your Home

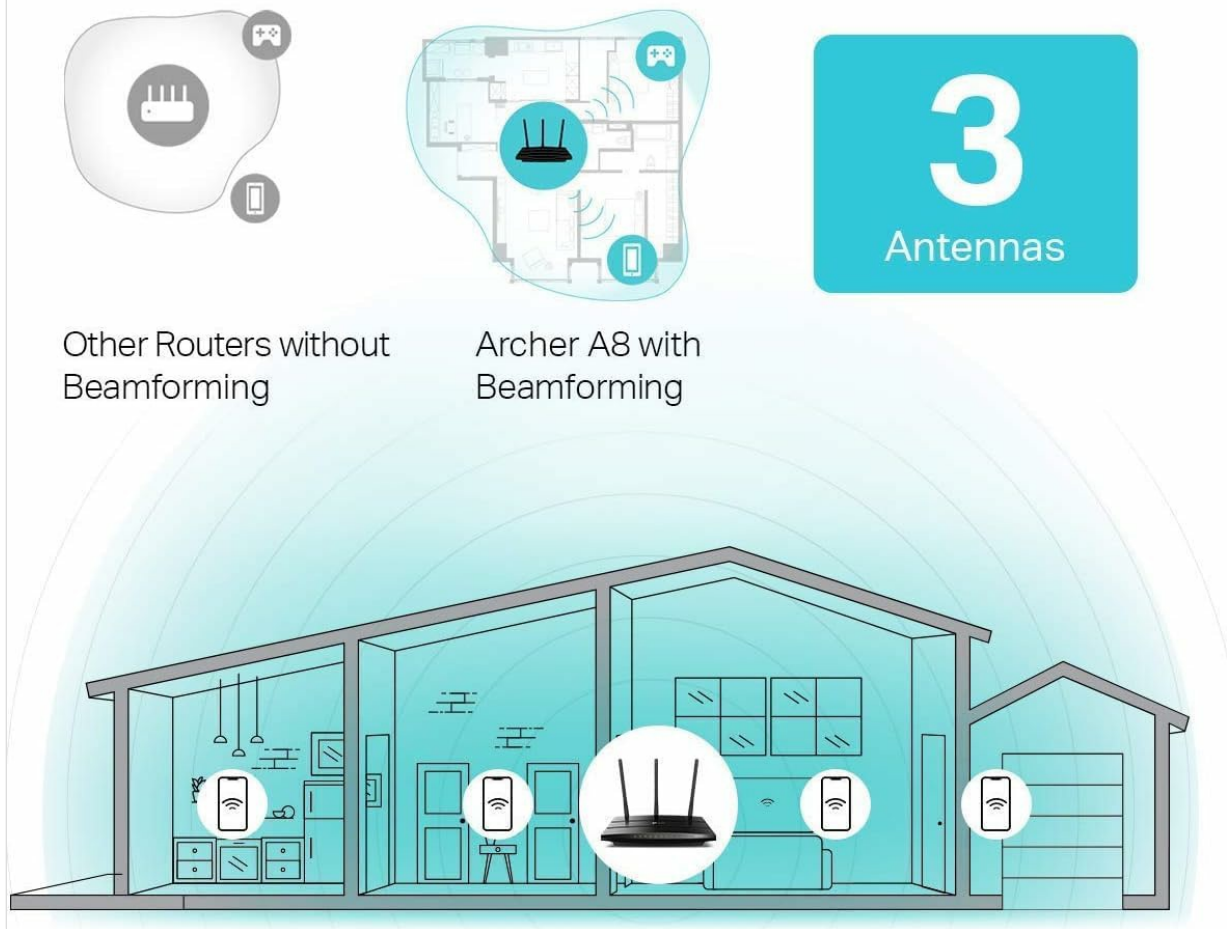


Figure 5.2: Beamforming Coverage. This image compares Wi-Fi coverage between a router without Beamforming and the Archer A8 with Beamforming. The Archer A8 directs stronger, more focused Wi-Fi signals towards connected devices, extending coverage and improving signal strength throughout your home.

Beamforming technology detects the location of your connected devices and concentrates the Wi-Fi signal directly towards them. This results in a more efficient and stronger wireless connection, extending Wi-Fi coverage and improving reliability, particularly for long-range connections.

5.5. Guest Wi-Fi Network

The router allows you to create a separate guest network, providing internet access to visitors without granting them access to your main network resources. This enhances security for your primary network.

5.6. Parental Controls

Utilize the Parental Controls feature to manage internet access for children. You can block inappropriate content and set daily time limits for online activity.

6. MAINTENANCE

- **Firmware Updates:** Regularly check for and install firmware updates through the router's web management interface or the TP-Link Tether App. Updates often include performance improvements, security patches, and new features.
- **Router Placement:** Place the router in a central location, away from obstructions and devices that

emit electromagnetic interference (e.g., microwaves, cordless phones) to maximize Wi-Fi coverage.

- **Rebooting:** Periodically reboot your router (unplug and replug the power adapter) to clear its memory and refresh network connections, which can resolve minor performance issues.
- **Security:** Use strong, unique passwords for your Wi-Fi network and router administration. Enable WPA2/WPA3 encryption for your wireless network.

7. TROUBLESHOOTING

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

- **No Internet Access:**
 - Check if your modem is working correctly.
 - Ensure all cables are securely connected to the correct ports (WAN port to modem, LAN ports to devices).
 - Reboot both your modem and router.
 - Verify your internet settings in the router's web management interface.
- **Weak Wi-Fi Signal or Dropouts:**
 - Relocate the router to a more central position, away from obstacles and interference sources.
 - Adjust the router's antennas for optimal signal direction.
 - Consider using a Wi-Fi analyzer app to identify channel interference and switch to a less congested channel.
- **Cannot Access Router Management Page:**
 - Ensure your device is connected to the router's network (wired or wireless).
 - Verify you are using the correct access URL (<http://tplinkwifi.net>) or IP address.
 - Clear your browser's cache or try a different browser.
- **Forgot Router Login Password:**
 - Perform a factory reset on the router. This will revert all settings to default, including the login password (which you will then set up again via the Quick Setup wizard). To factory reset, press and hold the reset button on the router (usually a small pinhole button) for about 10 seconds while the router is powered on.

8. SPECIFICATIONS

Feature	Detail
Model Name	TP-Link AC1900 (Archer A8)
Wireless Standard	IEEE 802.11ac/n/a 5 GHz, IEEE 802.11n/b/g 2.4 GHz
Wi-Fi Speeds	AC1900 (1300 Mbps on 5 GHz, 600 Mbps on 2.4 GHz)
Antennas	3 Fixed External Antennas
Ethernet Ports	1x Gigabit WAN Port, 4x Gigabit LAN Ports

Feature	Detail
Special Features	MU-MIMO, Beamforming, Smart Connect, Guest Wi-Fi, Parental Controls, WPS
Dimensions (W x D x H)	9.57 x 6.32 x 1.28 inches
Item Weight	14.6 ounces
Power Input	12V===1.5A
Compatible Devices	Gaming Console, Personal Computer, Smart Television

Note: Maximum wireless transmission rates are physical rates derived from IEEE 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary due to network conditions, environmental factors, and client limitations. Use of MU-MIMO requires client devices to also support MU-MIMO.

9. WARRANTY AND SUPPORT

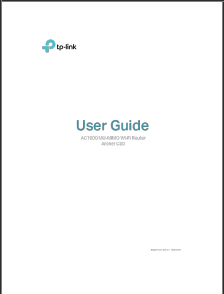
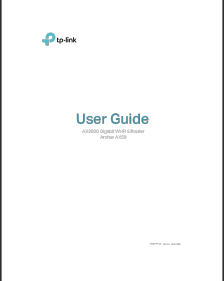
TP-Link provides an industry-leading 2-year warranty for this product. For technical assistance, please contact TP-Link's 24/7 technical support.


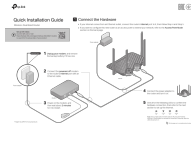


For the most up-to-date information, support resources, and contact details, please visit the official TP-Link website.

Legal Disclaimer:

1. Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range and coverage specifications are based upon test results under normal usage conditions. Actual wireless transmission rate and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead and 3) client limitations, including rated performance, location, connection quality, and client condition. 2. Use of MU-MIMO requires clients to also support MU-MIMO.

Related Documents - Archer A8

	TP-Link Archer C80 AC1900 MU-MIMO Wi-Fi Router User Guide Comprehensive user guide for the TP-Link Archer C80 AC1900 MU-MIMO Wi-Fi Router, covering setup, configuration, network security, management, and troubleshooting.
	TP-Link Archer AX50 User Guide: Setup and Features Comprehensive user guide for the TP-Link Archer AX50 AX3000 Gigabit Wi-Fi 6 Router. Learn about product overview, hardware connection, internet setup, cloud services, guest network, USB settings, network security, NAT forwarding, VPN server, network customization, router management, and Alexa integration.

 <p>The image shows the cover of the 'User Guide' for the TP-Link Archer AC1900 MU-MIMO Wi-Fi Router. It features the TP-Link logo at the top left and the title 'User Guide' in the center.</p>	<p>TP-Link Archer AC1900 MU-MIMO Wi-Fi Router User Guide</p> <p>Comprehensive user guide for the TP-Link Archer AC1900 MU-MIMO Wi-Fi Router, covering setup, configuration, network security, and advanced features.</p>
 <p>The image shows the cover of the 'Quick Installation Guide' for the TP-Link Archer C6 AC1200 Wireless Dual Band Router. It features a diagram of the router and its connections.</p>	<p>TP-Link Archer C6 AC1200 Wireless Dual Band Router Quick Installation Guide</p> <p>Concise guide for setting up your TP-Link Archer C6 AC1200 Wireless Dual Band Router, including hardware connection, network setup via app or web browser, and Access Point Mode.</p>
 <p>The image shows the cover of the 'Features and Setup Guide' for the TP-Link Archer AX55 AX3000 Wi-Fi 6 Router. It features a list of features and a diagram of the router.</p>	<p>TP-Link Archer AX55 AX3000 Wi-Fi 6 Router: Features and Setup Guide</p> <p>Explore the features of the TP-Link Archer AX55 AX3000 Wi-Fi 6 router, including its high-speed Wi-Fi 6 technology, OFDMA, MU-MIMO, Gigabit ports, and TP-Link HomeShield security features. This guide also provides concise setup instructions for connecting and configuring the router.</p>
 <p>The image shows the cover of the 'Quick Installation Guide' for the TP-Link AX3000 Gigabit Wi-Fi 6 Router (Archer AX50). It features a diagram of the router and its connections.</p>	<p>TP-Link AX3000 Gigabit Wi-Fi 6 Router Quick Installation Guide</p> <p>Concise guide for setting up your TP-Link AX3000 Gigabit Wi-Fi 6 Router (Archer AX50) using the Tether app or a web browser. Includes hardware connection, network setup, button explanations, USB applications, and troubleshooting tips.</p>