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> TP-Link AC1900 Smart WiFi Router (Archer A8) -High Speed MU-MIMO Wireless Router, Dual Band Router for Wireless Internet, Gigabit, Supports Guest WiFi User Manual

TP-Link Archer A8

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

Model: Archer A8 | Brand: TP-Link

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PRODUCT OVERVIEW

The TP-Link AC1900 Smart WiFi Router (Archer A8) is designed to provide high-speed wireless internet connectivity for your home or office. Featuring dual-band Wi-Fi, MU-MIMO technology, and Gigabit Ethernet ports, it supports seamless streaming, online gaming, and general web browsing. This router also includes features like Guest Wi-Fi and Parental Controls for enhanced network management.



The TP-Link Archer A8 AC1900 Smart WiFi Router, a black rectangular device with three external antennas and indicator lights on the front.

Key features of the Archer A8 include:

- **OneMesh Compatible Router:** Form a seamless WiFi network when working with TP-Link OneMesh WiFi Extenders.
- **Wave 2 Wireless Internet Router:** Offers speeds of 600 Mbps on the 2.4GHz band and 1300 Mbps on the 5GHz band.
- **MU-MIMO Gigabit Router:** Supports 3 simultaneous data streams, allowing devices to achieve optimal performance through efficient communication.
- **Boosted WiFi Coverage:** Beamforming technology delivers a highly efficient wireless connection for extended range.
- **Full Gigabit Ports:** Provides fast, reliable wired connections for PCs, Smart TVs, and gaming consoles with 4 x Gigabit LAN and 1 x Gigabit WAN ports. Note: This model does not include a USB port.
- **Parental Controls:** Allows blocking of inappropriate content and setting daily time limits for online access.
- **Broad Compatibility:** Works with all major internet service providers (a modem is required for most).



The Archer A8 router positioned on a kitchen counter, illustrating its integration into a modern home environment for high-performance Wi-Fi.

SETUP GUIDE

Setting up your TP-Link Archer A8 router is a straightforward process. Follow these steps to get your network up and running:

- 1. Unpack the Router:** Carefully remove the Archer A8 router, power adapter, and Ethernet cable from the packaging.
- 2. Position the Router:** Place the router in a central location in your home, away from obstructions and devices that may cause interference (e.g., cordless phones, microwaves).
- 3. Connect the Hardware:**
 - Connect your modem's Ethernet cable to the **WAN/Internet port** (blue) on the Archer A8.
 - Connect the power adapter to the router's power input and plug it into a wall outlet.
 - Wait for the indicator lights on the front of the router to stabilize. The Power, Wi-Fi, and Internet lights should be solid green.
- 4. Connect to the Router:**
 - **Wireless Connection:** Find the default Wi-Fi network name (SSID) and password printed on the label on the bottom of the router. Connect your computer or mobile device to this network.
 - **Wired Connection:** Optionally, connect a computer to one of the yellow LAN ports on the router using an Ethernet cable.
- 5. Run the Setup Wizard:**
 - Open a web browser (e.g., Chrome, Firefox) on your connected device and type `http://tplinkwifi.net` or `http://192.168.0.1` into the address bar.
 - Follow the on-screen instructions of the Quick Setup wizard to configure your internet connection, set up your new Wi-Fi network name and password, and establish an administrator password for the router.
 - Alternatively, download the **TP-Link Tether app** on your smartphone (available for iOS and Android) and follow the app's instructions for an even simpler setup process.
- 6. Verify Connection:** Once the setup is complete, test your internet connection on various devices to ensure everything is working correctly.

For detailed visual instructions, please refer to the Quick Installation Guide included in your product packaging.

OPERATING INSTRUCTIONS

The Archer A8 router offers various features to optimize your home network. Understanding these functions will help you get the most out of your device.

Wi-Fi Connectivity

The Archer A8 operates on both 2.4GHz and 5GHz frequency bands, providing flexibility and performance for different devices.

- **2.4GHz Band:** Ideal for basic internet use like web browsing and email, offering wider coverage and better penetration through walls.
- **5GHz Band:** Perfect for high-bandwidth activities such as 4K streaming, online gaming, and large file transfers, providing faster speeds over shorter distances.

Ultra-Fast Wi-Fi 5 – Wave 2 Series

With speeds reaching up to 1.9 Gbps, Archer is perfect for 4K streaming, online gaming, and web browsing.

1300 Mbps
5 GHz Band

4K, Gaming, Streaming

600 Mbps
2.4 GHz Band

Email, Photos, Web

Illustration showing the dual-band capabilities of the Archer A8, highlighting 1300 Mbps on the 5 GHz band for activities like 4K streaming and gaming, and 600 Mbps on the 2.4 GHz band for general web browsing.

Enhanced Performance

The Archer A8 incorporates advanced technologies to improve network efficiency and coverage.

- **MU-MIMO (Multi-User, Multiple-Input, Multiple-Output):** This technology allows the router to communicate with multiple devices simultaneously, rather than sequentially. This significantly reduces waiting times and increases Wi-Fi throughput for every device, ensuring a smoother experience for all connected clients.
- **Beamforming:** Beamforming technology detects the location of your connected devices and concentrates the Wi-Fi signal directly towards them. This targeted approach provides a more stable and stronger connection, especially for devices further away from the router, extending overall Wi-Fi coverage.

Connect More Devices with MU-MIMO

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

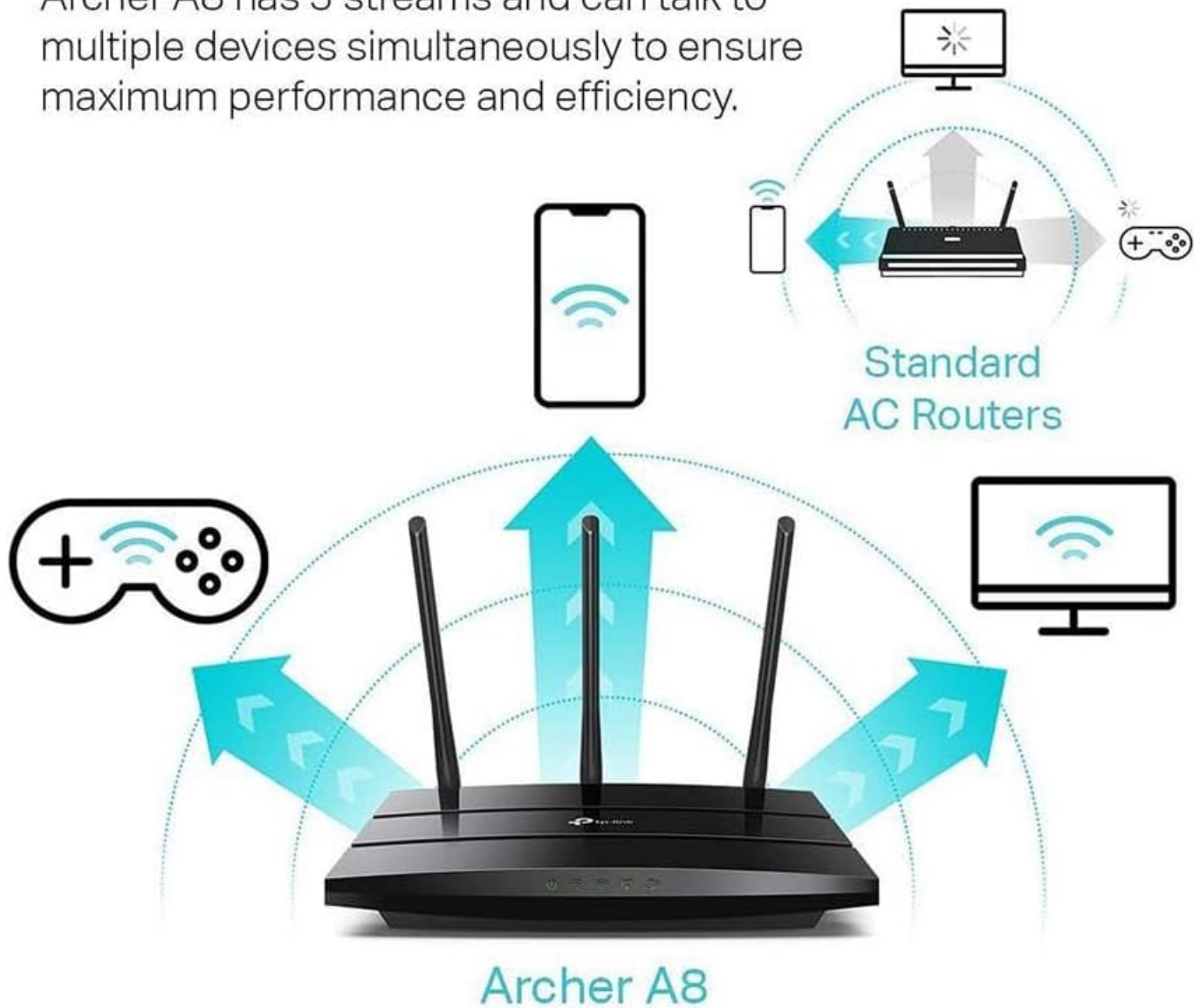


Diagram illustrating how the Archer A8 with MU-MIMO can communicate with multiple devices (phone, laptop, gaming console) simultaneously, unlike standard AC routers that communicate one by one.

Boosted WiFi Coverage in Every Room of Your Home



Other Routers without
Beamforming



Archer A8 with
Beamforming



An illustration comparing standard routers to the Archer A8, showing how the Archer A8's three antennas and Beamforming technology provide boosted Wi-Fi coverage throughout a multi-story home.

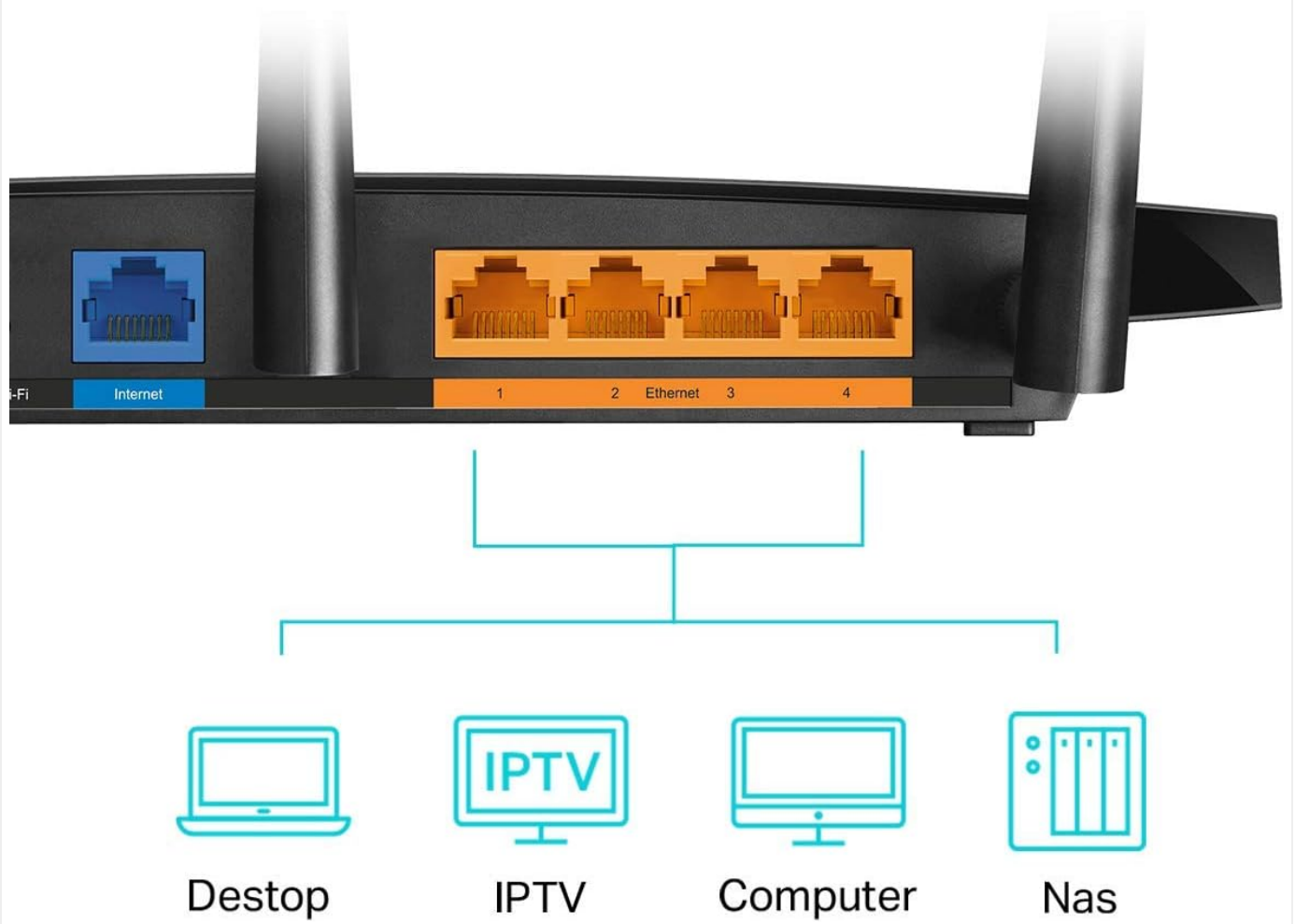
Wired Connections

The Archer A8 is equipped with full Gigabit Ethernet ports, providing robust wired connectivity.

- **Gigabit LAN Ports (Yellow):** Four ports for connecting wired devices such as desktop computers, smart TVs, gaming consoles, and network-attached storage (NAS) devices. These ports offer speeds up to 1000 Mbps for reliable and fast data transfer.
- **Gigabit WAN Port (Blue):** One port for connecting to your modem, ensuring a high-speed internet connection from your service provider.

Gigabit Ports for Reliability and Speed

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



Close-up view of the rear of the Archer A8 router, showing the blue WAN/Internet port and four yellow Gigabit LAN/Ethernet ports, with icons indicating connections for desktop computers, IPTV, other computers, and NAS devices.

Advanced Features

- **OneMesh:** Create a unified whole-home Wi-Fi network by pairing your Archer A8 with TP-Link OneMesh extenders. This eliminates Wi-Fi dead zones and ensures seamless roaming as you move throughout your home.
- **Parental Controls:** Manage and monitor internet access for children. You can block specific websites, set time limits for internet usage, and create schedules for online access.
- **Guest Wi-Fi:** Provide a separate Wi-Fi network for guests, keeping your main network secure and private. Guests can access the internet without needing access to your internal network resources.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Archer A8 router.

- **Optimal Placement:** Ensure the router is placed in an open area, away from large metal objects, concrete walls, and other electronic devices that may cause signal interference.
- **Keep it Clean:** Periodically clean the router's exterior with a soft, dry cloth to prevent dust buildup, which can obstruct ventilation and lead to overheating.

- **Firmware Updates:** Regularly check for and install the latest firmware updates from the TP-Link website or via the Tether app. Firmware updates often include performance improvements, security enhancements, and bug fixes.
- **Reboot Periodically:** A simple reboot of the router every few weeks can help clear its memory and resolve minor performance issues.

TROUBLESHOOTING

If you encounter issues with your Archer A8 router, try the following troubleshooting steps:

- **No Internet Access:**
 - Check if the Internet LED on the router is solid green. If not, ensure the Ethernet cable from your modem is securely connected to the router's blue WAN port.
 - Reboot your modem and then your router. Wait a few minutes for both devices to fully restart.
 - 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.
 - Ensure the router's antennas are oriented vertically for optimal signal dispersion.
 - Minimize physical obstructions (e.g., thick walls, large furniture) between the router and your devices.
 - Consider adding a TP-Link OneMesh compatible range extender to expand coverage.
- **Cannot Access Router Management Page:**
 - Ensure your device is connected to the router's Wi-Fi network or via an Ethernet cable.
 - Verify you are typing the correct address: <http://tplinkwifi.net> or <http://192.168.0.1>.
 - Try clearing your browser's cache or using a different browser.
 - If you forgot your router's login password, you may need to perform a factory reset (see User Manual for instructions).
- **Slow Internet Speed:**
 - Ensure your devices are connected to the 5GHz band when possible for faster speeds.
 - Check for any bandwidth-intensive applications running in the background.
 - Perform a speed test to confirm your actual internet speed from your ISP.
 - Update your router's firmware to the latest version.

TECHNICAL SPECIFICATIONS

Brand: TP-Link

Model Name: TP-link AC1900 (Archer A8)

Product Dimensions: 9.57 x 6.32 x 1.28 inches

Item Weight: 14.6 ounces

Connectivity Technology: Ethernet, Wi-Fi

Wireless Communication Standard: 802.11a, 802.11ac, 802.11b, 802.11g, 802.11n

Frequency Band Class: Dual-Band (2.4 GHz & 5 GHz)

Frequency: 5 GHz

Compatible Devices: Gaming Console, Personal Computer, Smart Television

Special Features: Beamforming, Guest Mode, Internet Security, LED Indicator, Parental Control, Access Point Mode, QoS, WPS

Included Components: Power Adapter, Quick Installation Guide, RJ45 Ethernet Cable

Manufacturer: TP-Link

Date First Available: July 2, 2020

WARRANTY AND SUPPORT

TP-Link provides comprehensive support for its products. For detailed warranty information, technical assistance, or to download the full user manual, please refer to the resources below:

- **Official User Manual:** A complete User Manual in PDF format is available for download. This document contains in-depth information on advanced configurations, security settings, and detailed troubleshooting. You can access it via this link: [TP-Link Archer A8 User Manual \(PDF\)](#)
- **TP-Link Support Website:** Visit the official TP-Link support website for FAQs, firmware downloads, and contact information for technical support.
- **Warranty Information:** Details regarding the product warranty period and terms can be found on the TP-Link official website or within the full User Manual.