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> TP-Link AC1900 Wireless MU-MIMO WiFi Router - Archer C80 User Manual

TP-Link Archer C80

TP-Link AC1900 Wireless MU-MIMO WiFi Router

Model: Archer C80 - User Manual

1. INTRODUCTION

Welcome to the user manual for your TP-Link AC1900 Wireless MU-MIMO WiFi Router, Model Archer C80. This guide provides detailed instructions for setting up, operating, maintaining, and troubleshooting your router to ensure a stable and high-performance wireless network in your home.

The Archer C80 offers fast dual-band Wi-Fi speeds, MU-MIMO technology for efficient communication with multiple devices, and Beamforming for extended coverage, making it ideal for streaming 4K video, online gaming, and general internet use.



Figure 1.1: TP-Link Archer C80 AC1900 Wireless Router

2. PACKAGE CONTENTS

Verify that all items are present in your package. If any item is missing or damaged, please contact your retailer.

- TP-Link AC1900 Wireless MU-MIMO WiFi Router (Archer C80)
- Power Adapter
- Ethernet Cable
- Quick Installation Guide



Figure 2.1: Archer C80 Retail Packaging

3. PRODUCT OVERVIEW

3.1 Front Panel LEDs

The front panel features LED indicators that provide information about the router's status.

- **Power LED:** Indicates power status. Solid green for normal operation.
- **Internet LED:** Indicates internet connection status. Solid green when connected.
- **Wi-Fi LEDs (2.4GHz & 5GHz):** Indicate wireless network activity. Solid green when Wi-Fi is enabled.
- **LAN LEDs:** Indicate connection status for wired devices.
- **USB LED (if applicable):** Indicates USB port status.

3.2 Rear Panel Ports and Buttons

The rear panel contains all the necessary ports and buttons for connecting your router.

- **Power Port:** Connects to the provided power adapter.
- **WAN Port:** Connects to your modem for internet access.
- **LAN Ports (1-4):** Connects to wired devices such as computers, gaming consoles, or smart TVs.
- **Reset Button:** Used to restore factory default settings. Press and hold for 5-10 seconds.
- **WPS/Wi-Fi Button:** Press to enable WPS (Wi-Fi Protected Setup) for easy connection, or press and hold to turn Wi-Fi on/off.

4. SETUP GUIDE

4.1 Hardware Connection

1. **Power Off:** Disconnect the power from your modem and router (if applicable).
2. **Connect Modem:** Connect the WAN port of the Archer C80 to your modem's Ethernet port using an Ethernet cable.
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, wait for it to fully boot up (usually indicated by stable internet LED), then power on your Archer C80 router.
5. **Connect Device:** Connect your computer or mobile device to the router. You can connect via Ethernet cable to a LAN port or wirelessly using the default Wi-Fi SSID and password printed on the label at the bottom of the router.

**Incredible 802.11ac Wave2
Home Wi-Fi**

1300Mbps
5 GHz Band

4K 🎮 📺

600Mbps
2.4 GHz Band

✉️ 🖼️ 🌐

Figure 4.1: Router Placement Example

4.2 Quick Setup via Web Browser

1. Open a web browser (e.g., Chrome, Firefox) on a device connected to the router.

2. Type <http://tplinkwifi.net> or <http://192.168.0.1> into the address bar and press Enter.
3. Create a new login password when prompted.
4. Follow the on-screen Quick Setup wizard to configure your internet connection and wireless settings.

4.3 Setup via TP-Link Tether App

1. Download the TP-Link Tether app from the Apple App Store or Google Play Store.
2. Enable Wi-Fi on your smartphone and connect to the router's default Wi-Fi network (SSID and password on the router's label).
3. Launch the Tether app and follow the instructions to set up your router.

5. OPERATING YOUR ROUTER

5.1 Wireless Network Settings

You can customize your Wi-Fi network name (SSID) and password through the web management interface. It is recommended to use a strong, unique password for security.

5.2 Parental Controls

The Archer C80 supports Parental Controls, allowing you to manage and monitor internet access for children and other family members. You can set time limits, block specific websites, and restrict content categories.

5.3 Guest Network

Create a separate Wi-Fi network for guests to ensure the security and privacy of your main network. Guests can access the internet without accessing your local network resources.

5.4 MU-MIMO and Beamforming Technology

The Archer C80 features MU-MIMO (Multi-User, Multiple-Input, Multiple-Output) technology, which allows the router to communicate with multiple devices simultaneously, significantly improving network efficiency and throughput, especially in busy networks.

Maximum Wi-Fi Performance with 3×3 MIMO

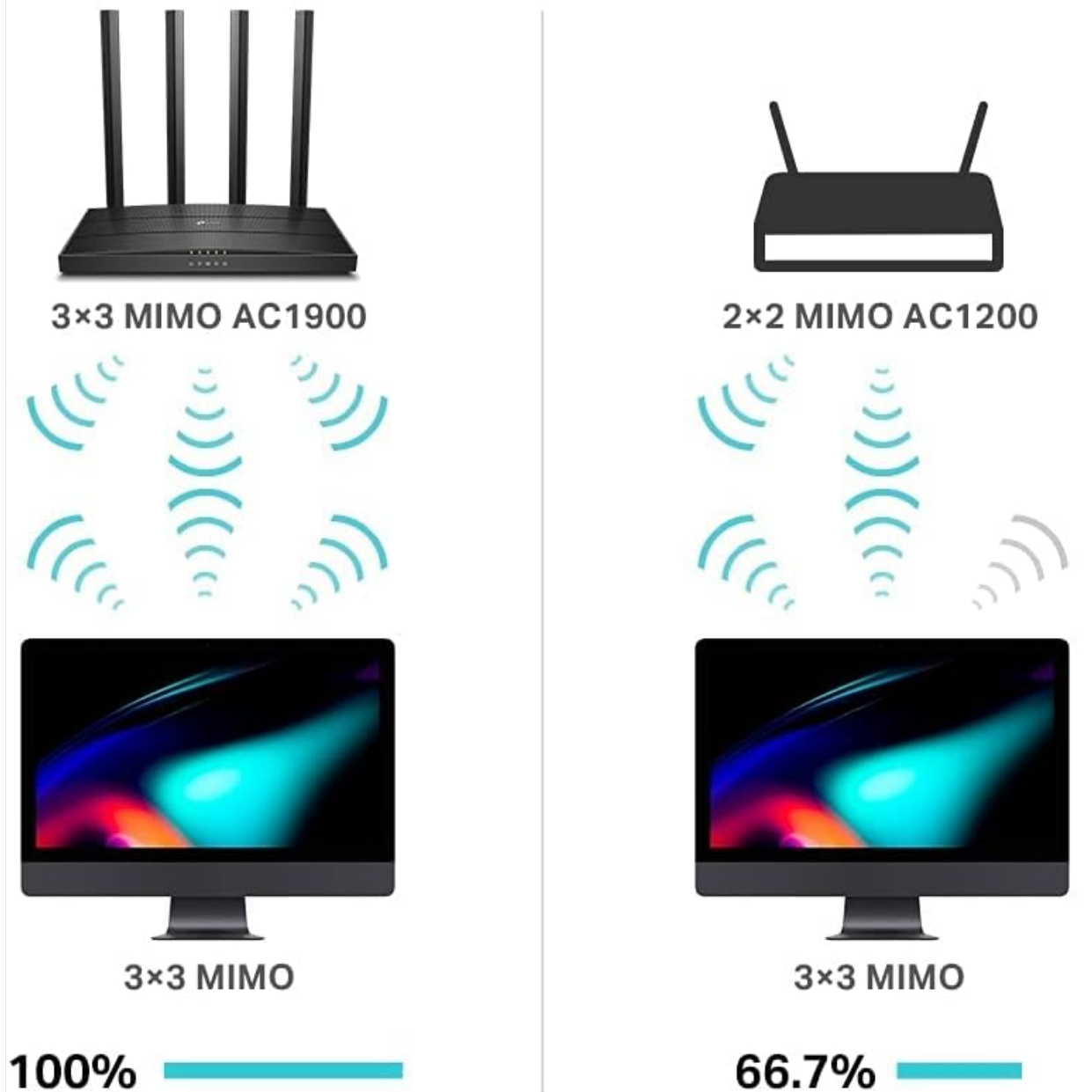


Figure 5.1: MU-MIMO Performance Comparison

Beamforming technology detects the location of connected devices and concentrates the Wi-Fi signal towards them, providing a stronger, more reliable connection and extending coverage throughout your home.

Broader Coverage Throughout Your Home



Figure 5.2: Broader Coverage with Beamforming

6. MAINTENANCE

To ensure optimal performance and longevity of your Archer C80 router, consider the following maintenance tips:

- **Firmware Updates:** Regularly check for and install the latest firmware updates from the TP-Link official website. Firmware updates often include performance improvements, security patches, and new features.
- **Optimal Placement:** Place the router in a central location in your home, away from obstructions (e.g., thick walls, large metal objects) and interference sources (e.g., microwaves, cordless phones).
- **Cleaning:** Keep the router clean and free of dust. Ensure ventilation openings are not blocked to prevent overheating.
- **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.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your router.

Q1: What should I do if I cannot access the internet?

- Verify that your modem is working correctly and has an active internet connection.
- Check all cable connections between the modem, router, and your devices. Ensure the WAN port LED is lit.
- Reboot your modem and router.
- If using a wireless connection, ensure your device is connected to the correct Wi-Fi network and the password is entered correctly.
- Try accessing the router's web management page (<http://tplinkwifi.net>) to check the internet status.

Q2: What should I do if I forget my Wi-Fi password?

- The default Wi-Fi password is printed on the label at the bottom of the router.
- If you changed it, log in to the router's web management page and navigate to Wireless settings to retrieve or change your password.

Q3: How do I restore the router to factory default settings?

- With the router powered on, press and hold the Reset button on the rear panel for approximately 5-10 seconds until the Power LED blinks rapidly. The router will then restart with factory settings.

8. TECHNICAL SPECIFICATIONS

| Feature | Description |
|------------------------|--|
| Model Name | TP-link AC1900 (Archer C80) |
| Brand | TP-Link |
| Wireless Standard | 802.11ac Wave2 |
| Frequency Band Class | Dual-Band (2.4 GHz & 5 GHz) |
| Wireless Speed | AC1900 (1300 Mbps on 5 GHz, 600 Mbps on 2.4 GHz) |
| Ethernet Ports | 1 Gigabit WAN Port, 4 Gigabit LAN Ports |
| Antennas | 4 External Antennas |
| Special Features | 3x3 MU-MIMO, Beamforming, Parental Controls, Guest Network |
| Dimensions (L x W x H) | 5.91 x 3.15 x 5.91 inches |
| Item Weight | 1.32 pounds |

9. WARRANTY AND TECHNICAL SUPPORT

For warranty information and technical support, please refer to the official TP-Link website or contact TP-Link customer service directly. You can find support resources, FAQs, and contact details at the official TP-Link support page:

[Visit TP-Link Support](#)

Please have your product model (Archer C80) and serial number ready when contacting support.

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