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> TP-Link Archer C50 AC1200 Wireless Dual Band Router User Manual

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Model: Archer C50

INTRODUCTION

This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your TP-Link Archer C50 AC1200 Wireless Dual Band Router. Please read this manual carefully before using the device to ensure proper functionality and optimal performance.



Figure 1: TP-Link Archer C50 AC1200 Wireless Dual Band Router (Front View)

The Archer C50 router features a sleek white and gray design with four external antennas for enhanced wireless coverage. The front panel includes LED indicators for power, system status, Wi-Fi bands, and Ethernet port activity.

PACKAGE CONTENTS

Verify that all items are present in your package:

- TP-Link Archer C50 AC1200 Wireless Dual Band Router
- Power Adapter
- Quick Installation Guide
- RJ45 Ethernet Cable



Figure 2: Archer C50 Retail Packaging

The router and its accessories are securely packaged within the retail box, which highlights key features such as AC1200 Wi-Fi and four antennas.

HARDWARE OVERVIEW

Front Panel LEDs

The front panel of the Archer C50 router features several LED indicators that provide information about the device's status:

- **Power LED:** Indicates power status.
- **System LED:** Indicates system activity.
- **Wi-Fi LEDs (2.4GHz & 5GHz):** Indicate wireless network activity for each band.
- **Internet LED:** Indicates connection status to the internet.
- **Ethernet LEDs (1-4):** Indicate activity on the wired LAN ports.

Rear Panel Ports and Buttons

The rear panel contains all the necessary ports and buttons for connectivity and control:



Figure 3: Archer C50 Rear Panel

The rear panel includes the power input, Power On/Off button, Reset button, Wi-Fi On/Off button, WPS button, WAN (Internet) port, and four LAN (Ethernet) ports.

- **Power Port:** Connects to the included power adapter.
- **Power On/Off Button:** Turns the router on or off.
- **Reset Button:** Used to restore factory default settings. Press and hold for 5-10 seconds while the router is powered on.
- **Wi-Fi On/Off Button:** Enables or disables the wireless signal.
- **WPS/Reset Button:** Initiates Wi-Fi Protected Setup (WPS) for easy connection of devices. Can also function as a reset button if held longer.
- **WAN Port (Blue):** Connects to your modem or internet service provider's (ISP) equipment.
- **LAN Ports (Yellow, 1-4):** Connects to wired devices such as computers, gaming consoles, or smart TVs.

SETUP GUIDE

Step 1: Hardware Connection

1. **Power Off:** Disconnect the power from your modem and router (if applicable).
2. **Connect WAN Port:** Connect one end of the Ethernet cable (RJ45) to the WAN (Internet) port (blue) on your

Archer C50 router. Connect 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 standard electrical outlet.
4. **Power On:** Power on your modem first, wait for it to fully boot up (usually indicated by stable internet LED on the modem). Then, power on your Archer C50 router.
5. **Verify LEDs:** Wait for the Power, System, Wi-Fi, and Internet LEDs on the router to become stable, indicating a successful connection.

Step 2: Configure the Router

You can configure the router via a wired or wireless connection.

Wired Connection:

- Connect your computer to one of the LAN ports (yellow) on the Archer C50 router using an Ethernet cable.

Wireless Connection:

- Locate the Wi-Fi Network Name (SSID) and Wireless Password printed on the label at the bottom of your router.
- On your computer or mobile device, select the router's SSID from the list of available Wi-Fi networks and enter the wireless password to connect.

Step 3: Access Web Management Page

1. Open a web browser (e.g., Chrome, Firefox, Edge).
2. In the address bar, type <http://tplinkwifi.net> or <http://192.168.0.1> and press Enter.
3. A login window will appear. Create a new password for future logins.
4. Follow the on-screen Quick Setup Wizard to configure your internet connection and wireless settings.

OPERATING THE ROUTER

Wireless Network Management

The Archer C50 supports dual-band Wi-Fi (2.4 GHz and 5 GHz) for flexible connectivity.

- **2.4 GHz Band:** Provides wider coverage and better penetration through walls, suitable for general browsing and older devices.
- **5 GHz Band:** Offers faster speeds and less interference, ideal for streaming HD video and online gaming, but with a shorter range.

You can manage your wireless settings, including SSID, password, and security type, through the web management page.

Guest Network

The router allows you to create a separate guest network to provide internet access to visitors without sharing your main network's password or resources. This enhances security and privacy.

Parental Controls

Utilize parental controls to manage and monitor internet access for children's devices. You can set time limits, block specific websites, and restrict access to inappropriate content.

Quality of Service (QoS)

QoS allows you to prioritize network traffic for specific applications or devices, ensuring smooth performance for critical activities like online gaming or video conferencing.

TP-Link Tether App

The TP-Link Tether app provides an easy way to manage your router from your smartphone or tablet. It allows for quick setup, parental control management, and network monitoring.

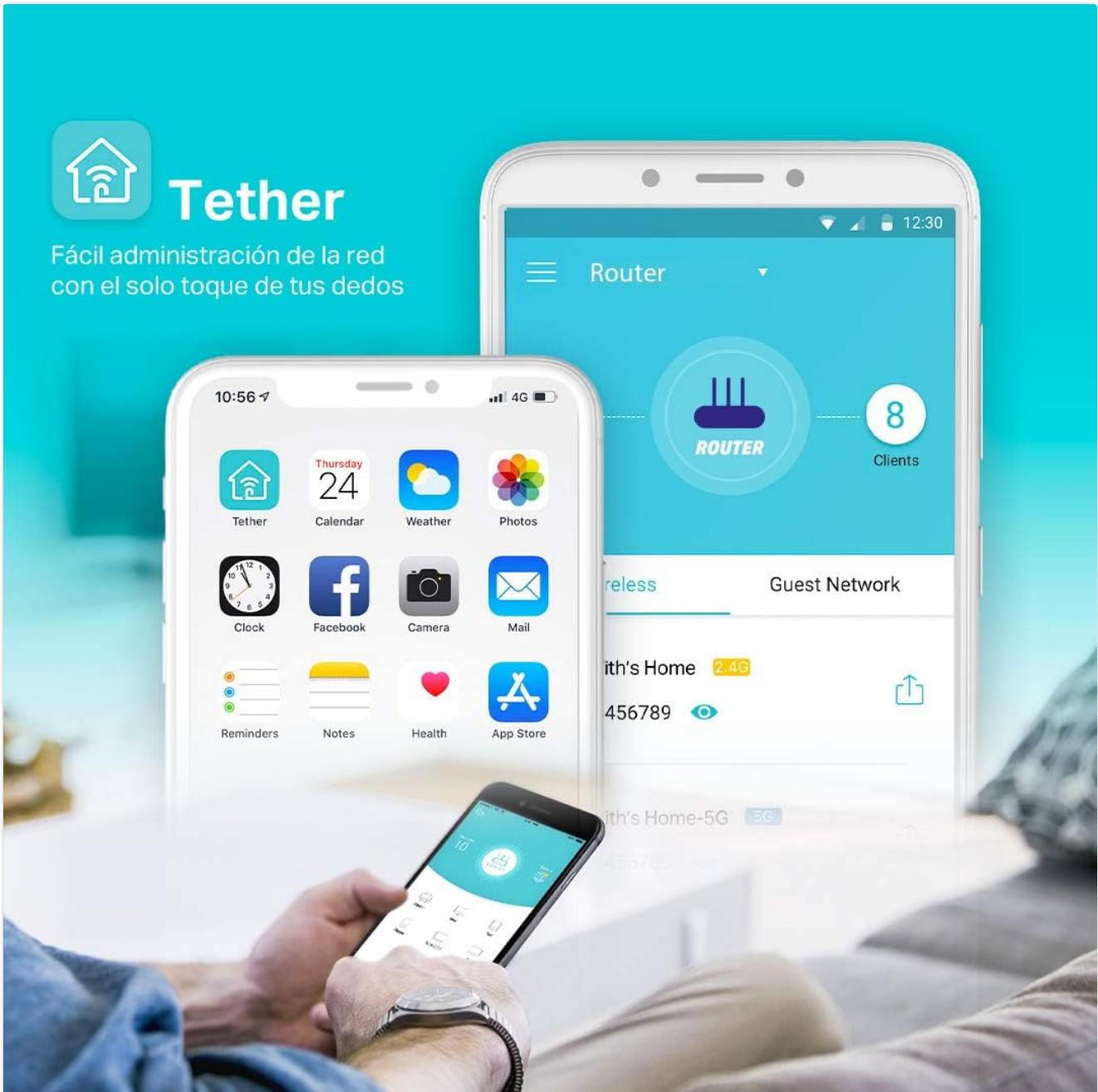


Figure 4: TP-Link Tether App Interface

The Tether app offers a user-friendly interface to manage your network, view connected devices, and adjust settings conveniently from your mobile device.

MAINTENANCE

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

- **Firmware Updates:** Periodically check the TP-Link official website for new firmware versions. Updating firmware can improve performance, add new features, and fix bugs.

- **Rebooting:** If you experience network issues, try rebooting the router by unplugging the power adapter for 10 seconds and then plugging it back in.
- **Placement:** Place the router in a central location, away from obstructions, large metal objects, and devices that emit strong electromagnetic interference (e.g., microwave ovens, cordless phones).
- **Cleaning:** Keep the router clean and free of dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners.

TROUBLESHOOTING

No Internet Access

- Check the Internet LED on the router. If it's off or red, ensure the Ethernet cable from your modem is securely connected to the router's WAN port.
- Reboot your modem and router.
- Verify your internet connection directly from the modem (if possible) to rule out ISP issues.
- Check your router's WAN settings in the web management page to ensure they match your ISP's requirements (e.g., Dynamic IP, Static IP, PPPoE).

Poor Wireless Signal or Slow Speed

- Relocate the router to a more central position, away from obstacles and interference sources.
- Adjust the router's antennas for optimal signal strength.
- Try changing the wireless channel in the router's settings to avoid interference from neighboring networks.
- Ensure your devices are connecting to the appropriate Wi-Fi band (2.4 GHz for range, 5 GHz for speed).
- Update the wireless adapter drivers on your devices.

Cannot Access Web Management Page

- Ensure your device is correctly connected to the router (wired or wireless).
- Verify that you are typing the correct address: <http://tplinkwifi.net> or <http://192.168.0.1>.
- Clear your browser's cache and cookies, or try a different browser.
- Temporarily disable any firewall or antivirus software on your computer.

SPECIFICATIONS

Feature	Detail
Model	Archer C50
Wireless Standard	IEEE 802.11ac/n/a 5 GHz, IEEE 802.11n/b/g 2.4 GHz
Frequency	2.4 GHz and 5 GHz (Dual-Band)
Ethernet Ports	1x 10/100 Mbps WAN Port, 4x 10/100 Mbps LAN Ports
Antennas	4 External Antennas
Dimensions (L x W x H)	9.05 x 1.45 x 5.68 inches
Weight	1.1 pounds

Power Input	9V
Special Features	WPS, Guest Network, Parental Controls, QoS

WARRANTY INFORMATION

TP-Link products come with a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official TP-Link website.

Please retain your purchase receipt for warranty claims.

TECHNICAL SUPPORT

For further assistance, technical support, or to download the latest drivers and firmware, please visit the TP-Link support website:

www.tp-link.com/us/support/

You can also contact TP-Link customer service directly through the contact information provided on their support page.