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TP-Link Archer C20(US)

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Model: Archer C20(US)

1. INTRODUCTION

The TP-Link Archer C20 is an AC750 Wireless Dual Band Router designed to provide reliable and fast Wi-Fi connectivity. It supports the next-generation Wi-Fi standard 802.11ac, which is backward compatible with 802.11n and offers speeds up to three times faster than wireless N. This router is ideal for accelerating home multimedia networks and mitigating congestion caused by multiple connected devices, offering enhanced power efficiency and robust security features.



Figure 1.1: Front view of the TP-Link Archer C20 Wireless Dual Band Router, showcasing its sleek design and three external antennas.

2. PACKAGE CONTENTS

Upon opening your TP-Link Archer C20 router package, please verify that all the following items are included:

- AC750 Wireless Dual Band Router (Archer C20)
- Power Adapter
- RJ45 Ethernet Cable
- Quick Installation Guide



Figure 2.1: The retail packaging for the TP-Link Archer C20 router, indicating its model and key features.

3. SETUP INSTRUCTIONS

Follow these steps to set up your TP-Link Archer C20 router. For detailed visual instructions, refer to the included Quick Installation Guide.

3.1. Hardware Connection

- 1. Power On:** Connect the power adapter to the router's Power port and plug the other end into a power outlet. Ensure the router powers on.
- 2. Connect to Internet:**
 - If your internet comes from an Ethernet cable directly from the wall, connect it to the router's blue Internet port.
 - If you have a modem, connect an Ethernet cable from your modem's LAN port to the router's blue Internet port.
- 3. Connect Devices:**
 - **Wired Connection:** Connect your computer or other wired devices to any of the yellow Ethernet LAN ports (1, 2, 3, or 4) on the router using an Ethernet cable.
 - **Wireless Connection:** Connect your wireless devices (smartphones, tablets, laptops) to the router's Wi-Fi network using the default SSID and password printed on the label at the bottom of the router.



Figure 3.1: Rear panel of the Archer C20, illustrating the power input, power on/off button, Wi-Fi/WPS button, Reset button, blue Internet port, and four yellow Ethernet LAN ports.

3.2. Configuration (Router Mode)

After hardware connection, configure the router via a web browser:

1. Open a web browser (e.g., Chrome, Firefox) on a device connected to the router.
2. Type <http://tplinkwifi.net> or **192.168.0.1** into the address bar and press Enter.
3. Create a new password for login when prompted.
4. Follow the on-screen Quick Setup wizard to configure your internet connection type (e.g., Dynamic IP, Static IP, PPPoE) and wireless settings (SSID, password).
5. Save your settings and restart the router if prompted.

3.3. Other Operation Modes

The Archer C20 can also function as an Access Point or Range Extender. These modes can be configured through the web management page or the TP-Link Tether app.

- **Access Point Mode:** Converts your existing wired network into a wireless one.
- **Range Extender Mode:** Boosts the existing wireless coverage in your home.

4. OPERATING THE ROUTER

Once configured, your Archer C20 router provides seamless wireless connectivity. Here are some operational aspects:

4.1. Wi-Fi On/Off Button

The router features a convenient Wi-Fi On/Off button on the rear panel. This allows you to quickly enable or disable the wireless signal without needing to access the web management interface. This is particularly useful for users who prefer to minimize wireless EMF radiation when Wi-Fi is not actively needed.

4.2. LED Indicators

The front panel of the router features LED indicators that provide status information:

- **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 internet connection status.
- **Ethernet LAN LEDs:** Indicate activity on the wired LAN ports.



Figure 4.1: Top view of the Archer C20, highlighting the LED indicators that display the router's operational status.

5. MAINTENANCE

To ensure optimal performance and longevity of your Archer C20 router, consider the following maintenance tips:

- **Firmware Updates:** Regularly check the TP-Link official website for the latest firmware updates. Updating firmware can improve performance, add new features, and enhance security.
- **Proper Placement:** Place the router in a central location, away from obstructions, large metal objects, and other electronic devices that may cause interference. This helps maximize wireless coverage and signal strength.

- **Ventilation:** Ensure the router has adequate ventilation to prevent overheating. Do not cover the ventilation holes.
- **Cleaning:** Periodically clean the router with a soft, dry cloth to remove dust.
- **Security:** Change the default Wi-Fi password and router login password regularly to enhance network security.

6. TROUBLESHOOTING

If you encounter issues with your Archer C20 router, refer to the following common troubleshooting steps:

6.1. No Internet Access

- Verify that your modem (if applicable) is working correctly and has an active internet connection.
- Check all cable connections between the modem, router, and your devices. Ensure they are securely plugged in.
- Restart your modem and router by unplugging them from power for 30 seconds and then plugging them back in. Wait for them to fully boot up.
- Confirm your internet connection type (Dynamic IP, Static IP, PPPoE) is correctly configured in the router's web management interface.

6.2. Poor Signal Strength or Slow Speeds

- **Router Placement:** Move the router to a more central location in your home, away from walls, large furniture, and other electronic devices that can cause interference.
- **Interference:** Cordless phones, microwave ovens, and Bluetooth devices can interfere with Wi-Fi signals. Try to minimize their use or move them away from the router.
- **Channel Optimization:** Access the router's web management interface and try changing the wireless channel for both 2.4GHz and 5GHz bands. Use a Wi-Fi analyzer app to find less congested channels.
- **Firmware:** Ensure your router's firmware is up to date.
- **Hardware Limitations:** Note that the router's Ethernet WAN port limits internet plans greater than 100 Mbps. Maximum wireless transmission rates are theoretical and actual performance may vary due to environmental factors and network conditions.

6.3. Cannot Access Web Management Page

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

6.4. Factory Reset

If other troubleshooting steps fail, you can perform a factory reset. This will revert all settings to their default values. To reset, with the router powered on, press and hold the Reset button on the rear panel for approximately 10 seconds until the system LED blinks rapidly. Release the button and wait for the router to restart.

7. SPECIFICATIONS

Feature	Detail
Model Name	Archer C20
Wireless Type	802.11ac
Frequency Band Class	Dual-Band (2.4 GHz and 5 GHz)
Wireless Communication Standard	802.11ac
Number of USB 2.0 Ports	1
Item Weight	1.3 pounds
Product Dimensions	11.22 x 8.78 x 3.58 inches
Color	Purple/White
Operating System	Linux [guess]
Voltage	220 Volts
Manufacturer	TP-LINK
Date First Available	October 8, 2015

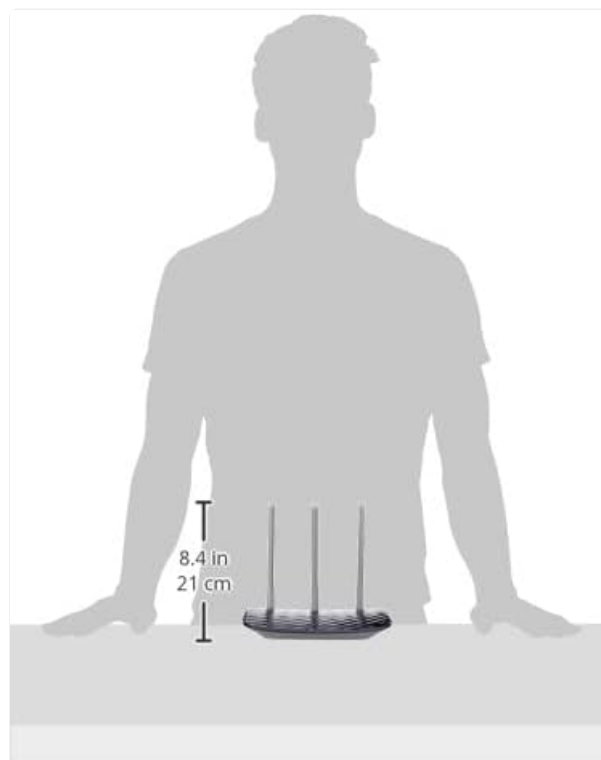


Figure 7.1: A diagram illustrating the approximate dimensions of the Archer C20 router, showing a height of 8.4 inches (21 cm) including antennas.

8. WARRANTY AND SUPPORT

TP-Link products typically come with a manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official TP-Link website for detailed warranty information specific to your region and model.

For technical assistance, troubleshooting, or further inquiries, TP-Link offers customer support. You can often find "Free Expert Support" for their products. Please visit the TP-Link support website or contact their customer service hotline for assistance.

TP-Link Official Website: <https://www.tp-link.com>

