

[Manuals.plus](#) /

› [TP-Link](#) /

› TP-Link TL-WR820N Wi-Fi Router User Manual

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Model: TL-WR820N

Brand: TP-Link

1. PRODUCT OVERVIEW

The TP-Link TL-WR820N is a versatile 300 Mbps multi-mode Wi-Fi router designed to meet the daily networking needs of medium-sized homes. It integrates multiple functions including Router, Access Point, Range Extender, and WISP modes, providing flexible solutions for various network setups. Equipped with two 5 dBi antennas and 2x2 MIMO technology, it enhances wireless signal transmission for reliable Wi-Fi and wired connections.



Front view of the TL-WR820N router, showing its compact design and two external antennas.



Angled view of the TL-WR820N, highlighting its sleek white casing and antenna placement.



Rear view of the TL-WR820N, displaying the power input, WAN port, two LAN ports, and the WPS/Reset button.

2. SETUP GUIDE

2.1 Package Contents

Before you begin, ensure your package contains the following items:

- TP-Link TL-WR820N Wi-Fi Router
- Power Adapter
- Ethernet Cable

- Quick Installation Guide

2.2 Hardware Connection

1. **Power On:** Connect the power adapter to the router's POWER port and plug the other end into a power outlet. Wait for the power LED indicator to turn solid green.
2. **Connect to Internet (WAN):** Connect your modem's Ethernet cable to the router's blue WAN port.
3. **Connect to Local Devices (LAN):** Connect your computer or other wired devices to the router's yellow LAN1 or LAN2 ports using an Ethernet cable.



Illustration of the router's rear panel, showing the power, WAN, and LAN ports for proper connection.

2.3 Initial Configuration

To configure your router, you can use a web browser or the TP-Link Tether app.

Using a Web Browser:

1. Ensure your computer is connected to the router (either wired or wirelessly).
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. Type <http://tplinkwifi.net> or <http://192.168.0.1> into the address bar and press Enter.
4. Create a login password when prompted.

5. Follow the on-screen Quick Setup wizard to configure your internet connection and wireless settings.

Using the TP-Link Tether App:

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

3. OPERATING MODES

The TL-WR820N supports multiple operating modes to adapt to various networking needs:

- **Router Mode:** This is the default mode. The router connects to the internet via a WAN port and shares the internet connection wirelessly or via LAN ports to multiple devices. In this mode, features like Parental Controls and Guest Network are fully functional.
- **Access Point Mode:** In this mode, the router transforms into a wireless access point, extending your existing wired network to a wireless one. It connects to an existing router via an Ethernet cable and broadcasts a Wi-Fi signal.
- **Range Extender Mode:** The router acts as a wireless repeater, boosting the signal of your existing Wi-Fi network to eliminate dead zones. It connects wirelessly to your main router and re-broadcasts the signal.
- **WISP Mode:** This mode allows the router to connect wirelessly to an ISP's access point in areas where wired internet access is unavailable, and then share that internet connection with local devices.

Note: Some advanced features like Parental Controls are primarily designed for Router Mode and may not function in other operating modes.

4. KEY FEATURES

The TL-WR820N offers a range of features to enhance your home network experience:

- **300Mbps Wi-Fi Speed:** Provides fast wireless speeds on the 2.4GHz band, suitable for HD streaming, online gaming, and general web browsing.
- **Parental Controls:** Manage and restrict internet access for children or specific devices. You can set time limits, block websites, and control content access.
- **Guest Network:** Create a separate Wi-Fi network for guests, keeping your main network secure and private.
- **IPv6 Support:** Compatible with the latest Internet Protocol version, ensuring future-proof networking.
- **IGMP Proxy/Snooping, Bridge, and Tag VLAN:** Advanced features that optimize multimedia streaming and network management, particularly useful for IPTV services.
- **Easy Management:** Manage your network settings conveniently through the web interface or the TP-Link Tether app.



The TL-WR820N delivers 300 Mbps wireless speed, ideal for smooth HD streaming and fast downloads.

5. SPECIFICATIONS

Feature	Detail
Product Dimensions	4.72 x 3.94 x 0.79 inches
Item Weight	4.9 ounces
Model Number	TL-WR820N
Brand	TP-Link
Connectivity Technology	Wi-Fi, LAN
Wireless Communication Standard	802.11b/g/n
Frequency Band Class	Single-Band (2.4 GHz)
Frequency	2.4 GHz
Special Feature	Access Point Mode
Recommended Uses For Product	Home

Feature	Detail
Compatible Devices	Laptop, Gaming Console, Personal Computer, Tablet, Smartphone, Desktop Computer
Manufacturer	TP-Link
First Available Date	August 12, 2023

6. TROUBLESHOOTING

If you encounter issues with your TL-WR820N router, try the following steps:

- **No Internet Access:**

- Check all cable connections (WAN, LAN) to ensure they are secure.
- Power cycle your modem and router: Unplug both devices, wait 30 seconds, then plug in the modem first, wait for it to fully boot, then plug in the router.
- Verify your internet service provider (ISP) settings in the router's web interface.

- **Weak Wi-Fi Signal or Drops:**

- Relocate the router to a central location, away from obstructions and interference sources (e.g., microwaves, cordless phones).
- Adjust the antennas for optimal signal coverage.
- Consider changing the Wi-Fi channel in the router settings to avoid interference from neighboring networks.

- **Cannot Access Router Management Page:**

- Ensure your device is connected to the router's network.
- Try clearing your browser's cache or using a different browser.
- Verify you are using the correct address (<http://tplinkwifi.net> or <http://192.168.0.1>).

- **Factory Reset:** If problems persist, you can perform a factory reset. With the router powered on, press and hold the WPS/RESET button on the rear panel for about 5-10 seconds until all LEDs flash. The router will revert to its factory default settings, and you will need to reconfigure it.

7. MAINTENANCE

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

- **Firmware Updates:** Periodically check the TP-Link official website for firmware updates for your TL-WR820N model. Firmware updates often include bug fixes, performance improvements, and new features.
- **Physical Cleaning:** Keep the router clean and free from dust. Use a soft, dry cloth to wipe the exterior. Ensure ventilation holes are not blocked to prevent overheating.

- **Secure Placement:** Place the router in a well-ventilated area, away from direct sunlight, heat sources, and excessive moisture.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official TP-Link website or contact their customer service. You can find detailed support resources, FAQs, and contact options on their support pages.

TP-Link Official Website: www.tp-link.com

Please have your product model (TL-WR820N) and serial number ready when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question