

TP-Link XC220-G3

TP-Link XC220-G3 AC1200 Wireless XPON Fiber Router User Manual

Model: XC220-G3

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, operation, and maintenance of your TP-Link XC220-G3 AC1200 Wireless XPON Fiber Router. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

2. PACKAGE CONTENTS

Verify that all items are included in your package:

- AC1200 Wireless XPON Router XC220-G3
- RJ45 Ethernet Cable
- Power Adapter
- Quick Installation Guide

3. PRODUCT OVERVIEW

The TP-Link XC220-G3 is a high-performance AC1200 Wireless XPON Fiber Router designed for flexible fiber internet access with dual-band Wi-Fi speeds up to 1.2 Gbps. It supports both GPON and EPON modes and features full Gigabit ports for fast wired connections.



Figure 3.1: TP-Link XC220-G3 Router (Angled View). This image displays the overall design of the router, highlighting its compact form factor and dual external antennas.



Figure 3.2: TP-Link XC220-G3 Router (Front View). The front panel features LED indicators for power, internet, Wi-Fi, and LAN status, providing quick visual feedback on the device's operational state.



Figure 3.3: TP-Link XC220-G3 Router (Rear View). The rear panel includes the power input, two Gigabit LAN ports, and the Reset/WPS button. These ports facilitate wired connections to devices and network management.

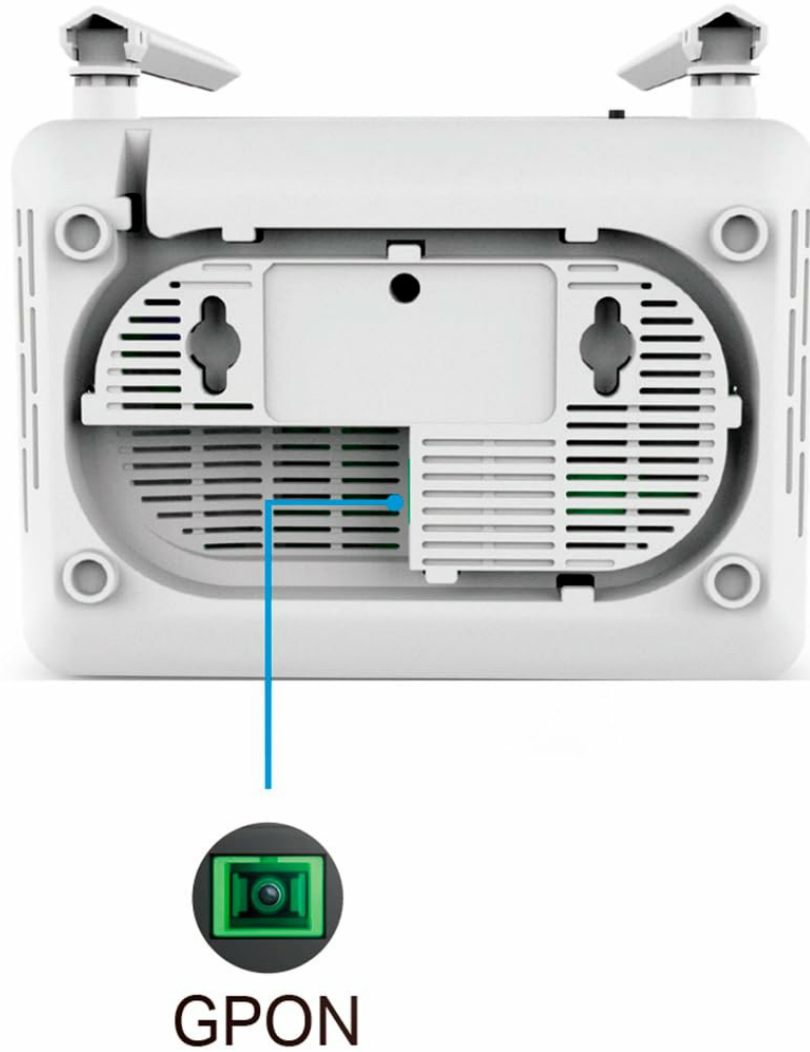


Figure 3.4: TP-Link XC220-G3 Router (Bottom View). The bottom of the router features the GPON port, which is essential for connecting to the fiber optic internet service. It also includes mounting slots for wall installation.

4. SETUP GUIDE

4.1 Hardware Connection

1. **Power Connection:** Connect the provided power adapter to the router's power port and plug it into a power outlet.
2. **Fiber Connection:** Insert the fiber optic cable from your ISP into the GPON port on the router. Ensure the connection is secure.
3. **Ethernet Connection (Optional):** For wired devices, connect an Ethernet cable from your computer or other network device to one of the router's LAN ports.

4.2 Initial Configuration

You can configure the router using the Aginet app or a web browser.

Using the Aginet App:

- Download the Aginet app from your mobile device's app store.
- Follow the in-app instructions to set up your router, including Wi-Fi name (SSID) and password.

Using a Web Browser:

1. Connect your computer to the router via Ethernet cable or Wi-Fi (using the default SSID and password printed on the router's label).
2. Open a web browser and enter the default access address (e.g., `tplinkwifi.net` or `192.168.1.1`).
3. Log in with the default credentials (usually `admin` for both username and password).
4. Follow the Quick Setup Wizard to configure your internet connection and wireless settings.

5. OPERATING INSTRUCTIONS

5.1 Wi-Fi Connectivity

- The router operates on both 2.4GHz (300 Mbps) and 5GHz (867 Mbps) bands. Connect your devices to the appropriate band for optimal performance.
- For whole-home Wi-Fi coverage, the router is EasyMesh compatible, allowing it to integrate into a mesh network system.

5.2 Gigabit Ports

The full Gigabit Ethernet ports provide up to 10 times faster wired performance than standard Ethernet, ideal for high-bandwidth applications like gaming and 4K streaming.

5.3 IPTV Optimization

The router supports IGMP Proxy/Snooping, Bridge, and Tag VLAN to optimize IPTV streaming, ensuring a smooth viewing experience.

5.4 Enhanced Security

Protect your network with built-in firewalls and the latest WPA3 encryption protocol for enhanced wireless security.

6. MAINTENANCE

- **Firmware Updates:** Regularly check for and install firmware updates through the router's web management interface or the Aginet app to ensure optimal performance and security.
- **Regular Reboot:** Periodically reboot the router (e.g., once a month) to clear its memory and refresh network connections, which can improve stability.
- **Physical Cleaning:** Keep the router clean and free from dust. Ensure proper ventilation by not obstructing the ventilation holes.
- **Fiber Cable Protection:** The compact fiber tray design helps store redundant fiber cable and protects it from damage. Avoid bending or crimping the fiber optic cable excessively.

7. TROUBLESHOOTING

7.1 No Internet Access

- Check if the fiber optic cable is securely connected to the GPON port.
- Verify that the Internet LED indicator on the router is lit. If not, contact your Internet Service Provider (ISP).
- Ensure your router's WAN settings (e.g., PPPoE username/password, Dynamic IP) are correctly configured according to your ISP's requirements.
- Reboot the router and your modem (if separate).

7.2 Wi-Fi Connectivity Issues

- Ensure your devices are within the router's Wi-Fi range.
- Check if the Wi-Fi LED indicator is on. If not, press the Wi-Fi button on the router or enable Wi-Fi through the web interface.
- Verify that you are using the correct Wi-Fi password.
- Try changing the Wi-Fi channel or mode in the router settings to avoid interference.

7.3 DNS Resolution Problems

- If you can ping IP addresses but not domain names, there might be a DNS issue.
- Try configuring your router or device to use public DNS servers (e.g., Google DNS: 8.8.8.8 and 8.8.4.4).
- Ensure your ISP's DNS settings are correctly applied if using automatic configuration.

8. SPECIFICATIONS

Brand	TP-Link
Model	XC220-G3
Dimensions (LxWxH)	15.7 x 11.9 x 3.3 cm
Item Weight	520 g
Connectivity Type	Wi-Fi, Ethernet
Wireless Type	802.11a/b/g/n/ac
Frequency Band Class	Dual-Band (2.4GHz & 5GHz)
Wi-Fi Speed	Up to 1.2 Gbps (300 Mbps on 2.4GHz, 867 Mbps on 5GHz)
Ports	GPON, Full Gigabit RJ45 LAN Ports
Operating System Compatibility	Microsoft Windows, MAC OS, NetWare, UNIX or Linux
Special Features	Supports GPON and EPON, IPTV, Internet Security, Remote Management, EasyMesh Compatible

9. WARRANTY INFORMATION

This TP-Link product comes with a standard manufacturer's warranty. For detailed warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official TP-Link website.

10. SUPPORT

For technical support, troubleshooting assistance, or any product-related inquiries, please contact TP-Link support:

- **Toll Free:** 1800 2094 168
- **Email:** support.in@tp-link.com

You can also visit the official TP-Link website for FAQs, firmware downloads, and additional support resources.