

KuWiFi QC300K-L

KuWiFi 300Mbps Outdoor 4G LTE CPE WiFi Router

Model: QC300K-L

1. INTRODUCTION

The KuWiFi QC300K-L is an outdoor 4G LTE CPE router designed to provide high-speed and reliable wireless connectivity for various environments, including small businesses, remote offices, homes, and IoT applications. This device integrates routing and data transmission capabilities, allowing up to 32 devices to connect simultaneously. It is compatible with tablets, laptops, mobile phones, and various Wi-Fi-enabled devices, offering a signal coverage range of 300-500 meters, depending on signal strength. Equipped with a POE adapter, the QC300K-L simplifies installation and provides both internet and potential phone service in a single unit. Its robust design ensures secure connectivity wherever a 4G LTE signal is available.

2. PRODUCT FEATURES

- **Outdoor Design:** Weatherproof construction suitable for outdoor installation.
- **High-Speed 4G LTE:** Supports 4G FDD-LTE bands B2/B4/B5/B12/B13/B14/B66/B71 and 3G WCDMA bands B2/B4/B5, primarily for USA, Canada, Mexico, and select Caribbean/Latin American regions. Offers download speeds up to 150Mbps and upload speeds up to 50Mbps.
- **Integrated POE Adapter:** Power over Ethernet (POE) for simplified installation and power delivery.
- **Connectivity:** Features 1 LAN port, 1 WAN port, and a SIM card slot interface.
- **Wi-Fi Sharing:** Capable of sharing Wi-Fi with up to 32 users simultaneously.
- **Antenna:** Built-in 2*WIFI + 2*LTE 5dBi high-gain outdoor antennas.
- **Versatile Use:** Ideal for outdoor IP camera connectivity and extending Wi-Fi coverage in various public or private settings.
- **Frequency:** Operates on a 2.4 GHz Radio Frequency, Single-Band.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Outdoor 4G LTE CPE Router (QC300K-L)
- Stand Holder
- User Manual (this document)
- POE Power Supply
- RJ45 Cable

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Image: The KuWFi QC300K-L router shown with its included accessories: a stand holder, POE power supply, and RJ45 cable.

4. SETUP GUIDE

4.1. SIM Card Installation

1. Ensure the router is powered off.
2. Locate the SIM card slot on the router. The QC300K-L supports Nano SIM cards.
3. Carefully insert your activated Nano SIM card into the slot until it clicks into place. Ensure the SIM card is active and does not have a PIN code enabled, as this router may not support PIN code entry.



Image: Close-up view of the router's bottom, showing the DC power input, WAN port, LAN port, and the SIM card slot. It indicates support for Nano SIM cards.

4.2. Powering On with POE Adapter

1. Connect one end of the RJ45 Ethernet cable to the WAN/POE port on the router.
2. Connect the other end of the RJ45 Ethernet cable to the POE port on the POE Power Supply.
3. Plug the POE Power Supply into a standard electrical outlet. The router's power indicator light should illuminate.

4.3. Initial Configuration (APN Settings)

Even if your SIM card is compatible, manual APN configuration might be necessary for internet access. Consult your mobile operator's official website or your mobile phone's settings for the correct APN details.

1. Connect a computer or mobile device to the router's Wi-Fi network (default SSID and password can be found on the device label or in the included quick start guide).
2. Open a web browser and navigate to the router's default IP address <http://172.16.0.1>.
3. Log in using the default username and password, which are typically **admin** for both.
4. Once logged in, navigate to the "Network Configuration" or "APN Settings" section.
5. Enable "APN manual setting" and enter the correct APN, username, and password provided by your SIM card carrier.
6. Save the settings and restart the router if prompted.



Image: Screenshot of the router's web management login page, showing fields for username and password (both 'admin' by default).



Image: Screenshot of the APN Settings page within the router's web interface, showing options to manually set APN, Auth Type, Username, Password, MCC, and MNC.

5. OPERATING INSTRUCTIONS

5.1. Connecting to Wi-Fi

Once the router is powered on and configured, you can connect your devices to its Wi-Fi network. The default Wi-Fi name (SSID) and password (network security key) are usually printed on a label on the router itself.

1. On your device (laptop, tablet, smartphone), search for available Wi-Fi networks.

2. Select the SSID corresponding to your KuWiFi router.
3. Enter the Wi-Fi password when prompted.
4. Your device should now be connected to the internet via the router.



Image: A typical Wi-Fi connection prompt on a device, showing available networks and a field to enter the network security key.

5.2. Status Indicators

The router features several LED indicators to show its current status:

- **POWER:** Indicates power status.
- **LAN:** Indicates activity on the LAN port.
- **WIFI:** Indicates Wi-Fi network activity.
- **WAN/LAN:** Indicates activity on the WAN/LAN port.
- **3G/4G:** Indicates the status of the 3G/4G cellular connection.



Image: Front view of the KuWiFi router showing the LED indicators for Power, LAN, WiFi, WAN/LAN, and 3G/4G.

6. MAINTENANCE

To ensure optimal performance and longevity of your KuWFi QC300K-L router, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the exterior of the router with a soft, dry cloth. Avoid using liquid cleaners or aerosols.
- **Ventilation:** Ensure the router's ventilation openings are clear and not obstructed to prevent overheating.
- **Environmental Conditions:** While the router is weatherproof, avoid exposing it to extreme temperatures or direct, prolonged submersion in water.
- **Firmware Updates:** Periodically check the manufacturer's website for firmware updates to improve performance and security.

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Image: The KuWFi router with water droplets on its surface, illustrating its weatherproof capability for outdoor use.

7. TROUBLESHOOTING

If you encounter issues with your KuWiFi QC300K-L router, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|--|
| No Internet Connection | <ul style="list-style-type: none"> Incorrect APN settings. SIM card not activated or has a PIN. SIM card not compatible (e.g., IoT SIM, roaming not supported). No cellular network coverage in the area. Account suspended due to data usage. | <ul style="list-style-type: none"> Verify and modify APN settings via the web interface (refer to Section 4.3). Ensure SIM card is active and disable PIN code. Confirm SIM card type and service with your operator. Check cellular signal strength. Consider relocating the router. Contact your service provider regarding account status. |
| Unstable Signal / Frequent Disconnections | <ul style="list-style-type: none"> Weak cellular signal. Interference. Router placement. | <ul style="list-style-type: none"> Access the settings page to lock the network to 4G or 3G to improve stability. Ensure the router is placed in an optimal location with clear line of sight to cellular towers. Minimize obstructions between the router and connected devices. |
| Cannot Access Web Interface | <ul style="list-style-type: none"> Incorrect IP address. Incorrect login credentials. Network configuration issues on your device. | <ul style="list-style-type: none"> Ensure you are using the correct IP: http://172.16.0.1. Use default credentials (admin/admin) or your changed credentials. Ensure your device is connected to the router's network. Try clearing your browser's cache or using a different browser. |

8. SPECIFICATIONS

| Feature | Detail |
|---------------------------------|---------------------------|
| Model Name | QC300K-L |
| Brand | KuWiFi |
| Product Dimensions | 1.97 x 1.18 x 7.87 inches |
| Item Weight | 13.4 ounces |
| Connectivity Technology | Wireless |
| Wireless Communication Standard | 2.4 GHz Radio Frequency |
| Frequency Band Class | Single-Band |

| Feature | Detail |
|----------------------|----------------|
| Special Feature | Weatherproof |
| Compatible Devices | Laptop, Tablet |
| Recommended Uses | Outdoor |
| Manufacturer | KuWiFi |
| First Available Date | April 3, 2019 |

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Image: Diagram showing the dimensions of the KuWiFi QC300K-L router: approximately 6.7 inches in height, 3.5 inches in width, and 1.6 inches in depth.

9. WARRANTY AND SUPPORT

The KuWiFi QC300K-L router comes with a reliable warranty service to ensure your peace of mind:

- **30-Day Money-Back Guarantee:** If you are not satisfied with your purchase, you may be eligible for a refund within 30 days.

- **Month Free Replacement:** Details on this specific replacement period should be confirmed with the seller.
- **1-Year Manufacturer Warranty:** Covers defects in materials and workmanship for one year from the date of purchase.
- **Professional Technical Support:** Access to technical assistance for setup, troubleshooting, and general inquiries.

For further assistance or to claim warranty service, please contact KuWiFi customer support. You can also refer to the official User Manual PDF for more detailed information: [Download User Manual \(PDF\)](#).