

**VSVABEV CPF909-L**

# VSVABEV Outdoor 4G LTE Modem Router User Manual

Model: CPF909-L | Brand: VSVABEV

## 1. INTRODUCTION

The VSVABEV CPF909 is an advanced 802.11b/g/n Wi-Fi standard high-power wireless 4G router designed for both indoor and outdoor use. It functions as a Wi-Fi repeater, equipped with an MT7628 CPU, offering 300Mbps Wi-Fi speed, 150Mbps 4G LTE downlink speed, and 50Mbps uplink speed. This device supports access for over 64 end-users simultaneously, making it an ideal and economical solution for various environments such as hotels, schools, restaurants, dormitories, hospitals, garages, warehouses, and farms. Its robust IP66 waterproof and dustproof housing ensures reliable performance in harsh outdoor conditions, including high temperatures, lightning, heavy snow, and heavy rain.

## 2. PRODUCT OVERVIEW

### 2.1 Package Contents

Upon unboxing your VSVABEV CPF909, please verify that all the following items are included:

- 1x VSVABEV CPF909 Outdoor 4G LTE Router
- 2x Detachable Omni-directional Antennas
- 1x 24V/0.5A Passive POE Power Adapter
- 1x Ethernet LAN Cable (RJ45)
- Some Mounting Accessories
- 1x Quick Start Guide (User Manual)





Image: The VSVABEV Outdoor 4G LTE Modem Router with its two high-gain antennas.

## 2.2 Key Features

- **High-Power Wireless Performance:** 802.11b/g/n Wi-Fi standard with 300Mbps Wi-Fi speed, 150Mbps 4G LTE downlink, and 50Mbps uplink.
- **Multi-User Support:** Capable of supporting over 64 simultaneous end-users.
- **Integrated 3G/4G Modem & SIM Slot:** Built-in modem and Nano SIM card slot for direct 4G connectivity.
- **WAN Port:** Automatically switches to WAN Ethernet connection if 3G/4G network is lost.
- **IP66 Waterproof & Dustproof:** Designed to withstand harsh outdoor environments.

- **4 High-Power Detachable Omni-directional Antennas:** Provides 360° large diffusion range for optimal Wi-Fi coverage.
- **Flexible Power Options:** Supports Power over Ethernet (PoE) via Ethernet cable, 24V passive PoE adapter, 12V 1A DC adapter, and solar power.
- **Hardware Watchdog & ESD Protection:** Enhances device stability and durability.
- **Mounting Options:** Supports wall and pole installation.
- **Network Compatibility:** Supports major mobile operators in US/Canada/Mexico/Central/South America.
- **Ports & Indicators:** Features 2x 10/100Mbps LAN Ports, 6 LED indicators (WiFi, 4G, SYS, LAN1, LAN2, PWR), 1x DC Port, 1 Nano SIM card slot, and 1 reset button.



Image: Detailed view of the router's ports and LED indicators.

**With PoE support, conveniently  
run power by plugging in an Ethernet cable**

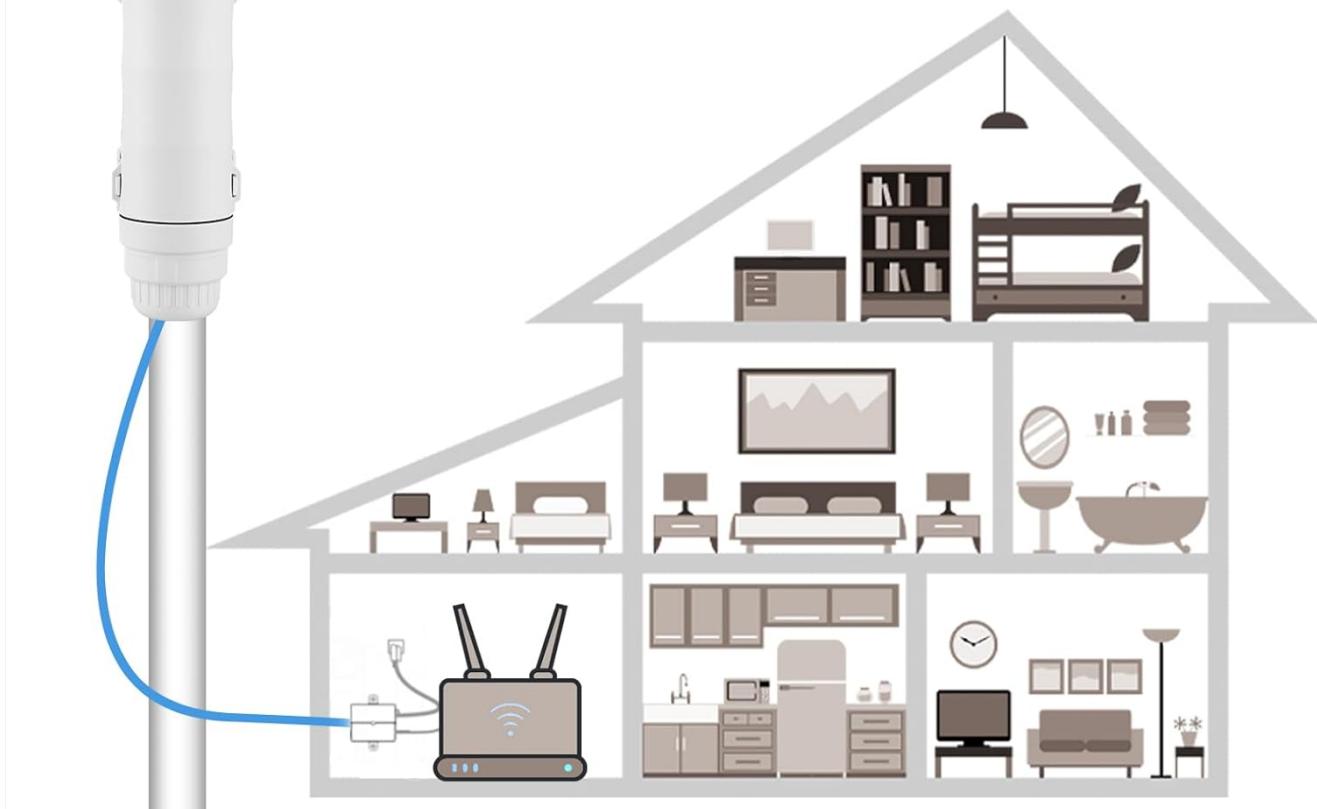


Image: Illustration of PoE support, allowing power delivery through an Ethernet cable.

## 3. SETUP AND INSTALLATION

Follow these steps to set up your VSVABEV CPF909 Outdoor 4G LTE Modem Router.

### 3.1 Unboxing and Component Assembly

Carefully unbox all components. Attach the two detachable omni-directional antennas to the designated ports on the top of the router. Ensure they are securely fastened.

Your browser does not support the video tag.

Video: This video provides a comprehensive introduction to the CPF909 Outdoor Router, including unboxing and initial assembly steps.

### 3.2 SIM Card Insertion

The CPF909 supports Nano SIM cards. Locate the SIM card slot at the bottom of the device. Insert your Nano SIM card into the slot until it clicks into place. Ensure the SIM card is oriented correctly as shown in the diagram.

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## SIM 4G

plug and play

just insert your nano sim card and connect device to power it never been easier to enjoy wifi



Micro SIM card



Nano SIM card



Standard SIM card



Image: Proper insertion of a Nano SIM card into the router's dedicated slot.

### 3.3 Power and Network Connection

The router can be powered via Ethernet cable using the provided 24V passive PoE adapter or a 12V 1A DC adapter.

1. Connect one end of the Ethernet LAN cable to the LAN/PoE port on the router.
2. Connect the other end of the Ethernet LAN cable to the PoE port on the 24V/0.5A PoE Power Adapter.
3. Plug the PoE Power Adapter into a power outlet.
4. The router will power on, and the LED indicators will light up. Observe the PWR, SYS, and 4G LEDs for status.

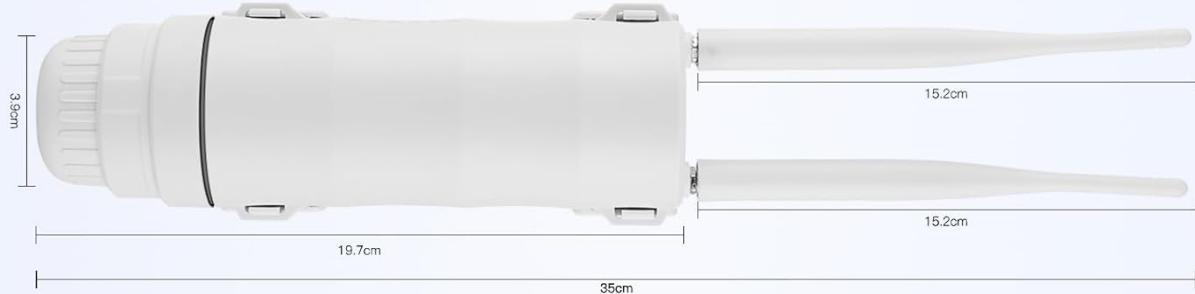


Image: Connecting the router using the PoE power adapter and Ethernet cable.

### 3.4 Mounting the Device

The CPF909 supports both wall and pole mounting. Use the provided mounting accessories to secure the device in your desired outdoor location. Ensure the location provides optimal signal reception and coverage.

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★Data by manual measurement for reference ONLY



Image: Various mounting options for the outdoor router, including wall and pole installations.

## 4. OPERATING INSTRUCTIONS

### 4.1 Accessing the Web Management Interface

To configure your router, access its web management interface:

1. Connect your computer or mobile device to the router's Wi-Fi network (default password is 12345678) or via an Ethernet cable to one of its LAN ports.
2. Open a web browser and enter the default IP address: **192.168.1.254**
3. Enter the default username and password. The default password is **admin**.
4. You will be redirected to the router's dashboard, where you can view system status and configure settings.

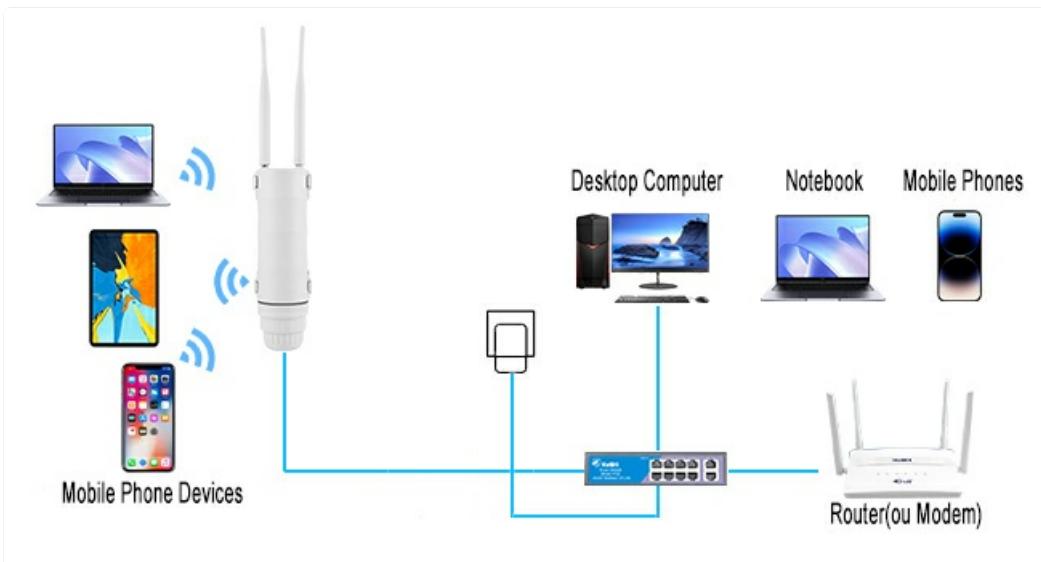


Image: Web interface for router configuration, showing login and status overview.

## 4.2 Configuring APN Settings (if needed)

In some cases, you may need to manually configure the APN (Access Point Name) settings for your mobile operator.

1. From the web management interface, navigate to the **4G** or **Network Settings** section.
2. Select **APN Profile** and choose **Manual**.
3. Enter the APN, Username, and Password provided by your mobile network operator.
4. Click **Save & Apply** to save the changes. The router will restart to apply the new settings.



Image: APN configuration page within the router's web interface.

## 4.3 Operation Modes

The CPF909 supports multiple operation modes:

- **Repeater Mode:** Extends the range of an existing Wi-Fi network.
- **4G to Wi-Fi Mode:** Uses the inserted SIM card to provide Wi-Fi internet access.
- **Wired Mode:** Connects to an existing wired network via the WAN port to provide Wi-Fi access.

You can switch between these modes in the web management interface under the **Operation Mode** or **Wireless Settings** section.

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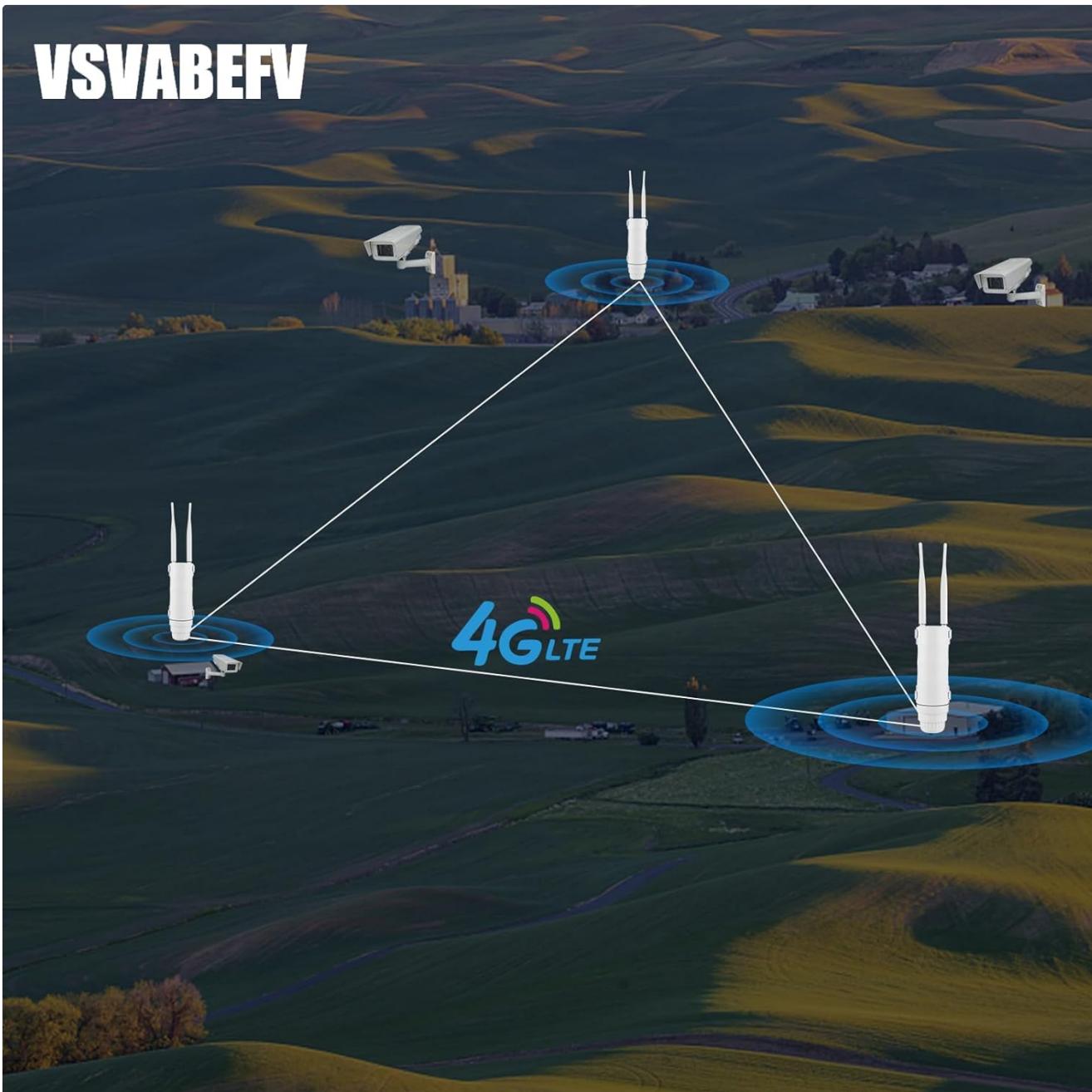


Image: Network diagrams showing the router's various operational modes.

## 5. MAINTENANCE

To ensure optimal performance and longevity of your VSVABEV CPF909 router, consider the following maintenance tips:

- **Cleaning:** Periodically wipe the exterior of the device with a soft, dry cloth. Avoid using liquid cleaners or aerosols.
- **Firmware Updates:** Check the manufacturer's website regularly for firmware updates. Keeping the firmware updated ensures the best performance, security, and compatibility.
- **Environmental Protection:** Although designed for outdoor use with IP66 rating, avoid placing the device in locations with extreme and prolonged exposure to direct sunlight, excessive moisture, or corrosive substances.
- **Cable Management:** Ensure all cables are securely connected and not under strain. Protect outdoor cables from physical damage and environmental exposure.

## 6. TROUBLESHOOTING

If you encounter issues with your VSVABEV CPF909 router, try the following troubleshooting steps:

Problem	Possible Cause	Solution
No Power/LEDs Off	Power adapter not connected or faulty.	Ensure the PoE adapter is properly connected to the router and a working power outlet. Check the power outlet.
No Internet Connection (4G)	Incorrect SIM card insertion, invalid APN settings, or no 4G signal.	Verify SIM card is correctly inserted. Check and configure APN settings in the web interface. Relocate the router to an area with better 4G signal.
Weak Wi-Fi Signal	Obstructions, distance, or antenna orientation.	Ensure antennas are securely attached and oriented correctly. Relocate the router to a central position or higher elevation. Minimize obstructions.
Cannot Access Web Interface	Incorrect IP address, network configuration issues, or router malfunction.	Ensure your device is connected to the router's network. Verify you are using the correct IP address (192.168.1.254). Try clearing your browser cache.
Forgot Login Password	Password lost or forgotten.	Press and hold the reset button for several seconds (typically 5-10 seconds) until the LEDs flash. This will restore the router to factory default settings (default password: admin).

## 7. SPECIFICATIONS

Detailed technical specifications for the VSVABEV CPF909 Outdoor 4G LTE Modem Router:

Feature	Detail
Model Name	CPF909-L
Product Dimensions	1.5 x 1.5 x 13.8 inches
Item Weight	14.1 ounces
Wireless Communication Standard	802.11n, 802.11b, 802.11g
Frequency Band Class	Single-Band (2.4 GHz)
Connectivity Technology	Wi-Fi, LTE
Special Features	Beamforming, Weatherproof, Access Point Mode, Internet Security
Compatible Devices	Security Camera, Personal Computer, Tablet, Smart Television, Smartphone
Recommended Uses	Outdoor
Manufacturer	VSVABEV
Country of Origin	China

## 8. WARRANTY AND SUPPORT

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VSVABEFV provides a **1-year after-sales service and technical support** for the CPF909 Outdoor 4G LTE Modem Router.

If you have any questions or require assistance with your product, please do not hesitate to contact VSVABEFV customer service. They are committed to providing solutions within 24 hours.

For the most up-to-date support information and contact details, please refer to the official VSVABEFV website or the contact information provided with your purchase.