

## Yeacomm NR610-Q X62

# Yeacomm NR610-Q X62 5G Outdoor Router Instruction Manual

## 1. INTRODUCTION

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The Yeacomm NR610-Q X62 is an outdoor 5G NR router designed for robust and reliable internet connectivity in various environments. Featuring an IP67-rated waterproof and dustproof enclosure, dual Nano SIM card slots, and a Qualcomm SDX62 5G modem, this device supports both SA/NSA 5G and backward-compatible 4G LTE/3G networks. It is suitable for outdoor installation to optimize 5G signal reception, even in areas with weak coverage.

This manual provides detailed instructions for the setup, operation, and maintenance of your NR610-Q X62 router.

## 2. WHAT'S IN THE BOX

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- 5G Outdoor Router
- POE Power Adapter
- Installation Brackets
- Ethernet Cable
- User Manual

## 3. PRODUCT OVERVIEW

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This section details the physical components and indicators of the NR610-Q X62 router.

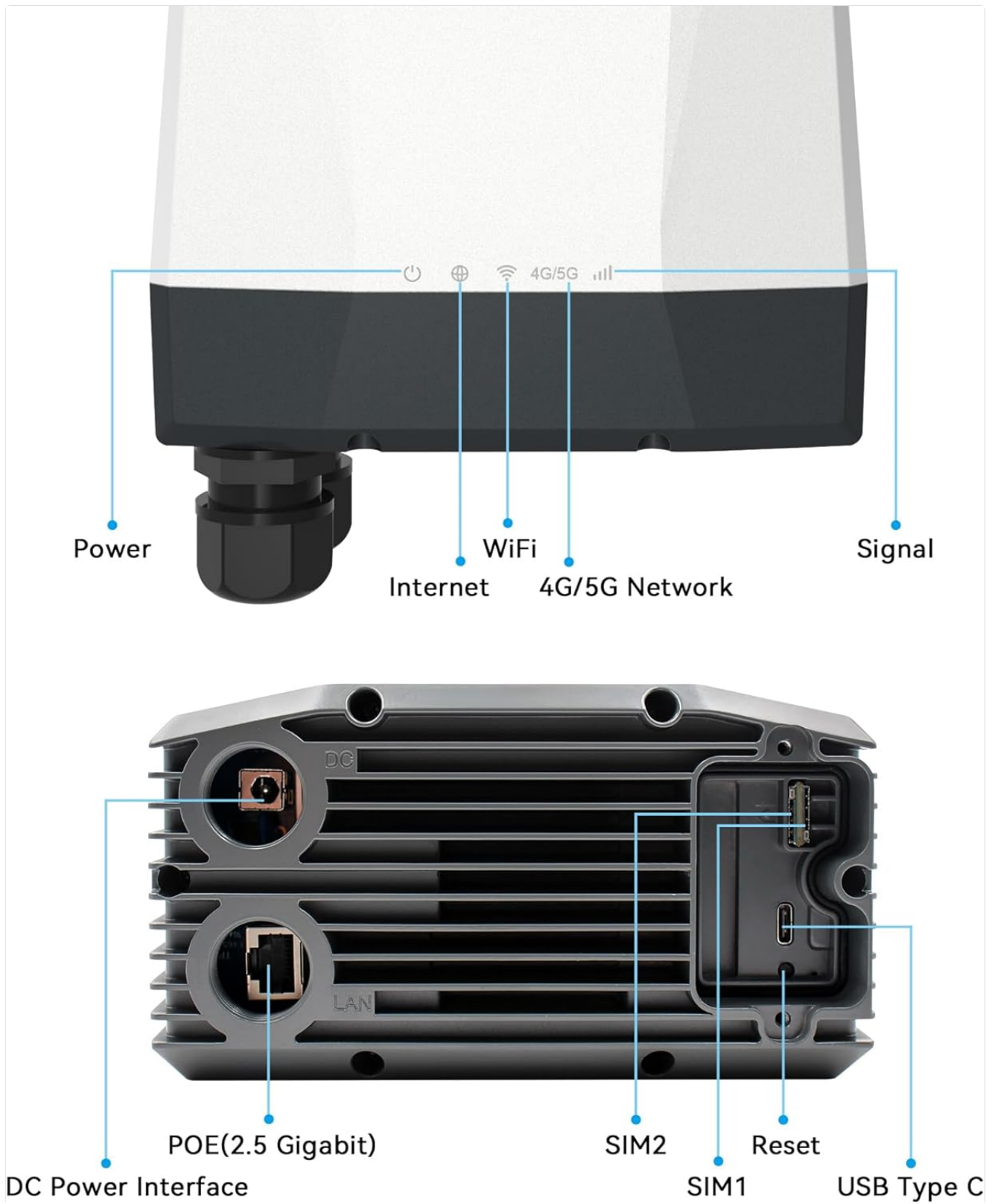


Figure 3.1: NR610-Q X62 Router Components

### 3.1 LED Indicators (Top Panel)

- **Power:** Indicates the power status of the device.
- **Internet:** Shows the internet connection status.
- **WiFi:** Indicates Wi-Fi functionality.
- **4G/5G Network:** Displays the current cellular network type (4G or 5G).
- **Signal:** Represents the strength of the cellular signal.

### 3.2 Ports and Slots (Bottom Panel)

- **DC Power Interface:** For direct current power input.
- **POE (2.5 Gigabit):** Power over Ethernet port for both data and power.
- **SIM1 & SIM2:** Dual Nano SIM card slots for cellular connectivity.
- **Reset:** Button to restore factory settings.
- **USB Type C:** For potential future use or diagnostics.

## 4. SETUP

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### 4.1 SIM Card Installation

1. Locate the SIM card slots on the bottom panel of the router.
2. Insert Nano SIM cards into SIM1 and SIM2 slots. Ensure correct orientation as indicated on the device.
3. The router supports dual SIM for failover and redundancy.



Figure 4.1: Dual Nano SIM Card Slots

### 4.2 Mounting

The NR610-Q X62 can be mounted on a wall or a pole using the provided installation brackets. Choose a location with optimal 5G signal reception and a clear line of sight to the nearest cellular tower.

# Plug and Play, Full Signal Coverage



Figure 4.2: Wall and Pole Mounting Options

## 4.3 Power Connection

- Connect the router using the provided POE Power Adapter via the POE (2.5 Gigabit) port. This supplies both power and data through a single Ethernet cable.
- Alternatively, use the DC Power Interface if Power over Ethernet (PoE) is not utilized.



Figure 4.3: PoE Connection

## 4.4 Initial Configuration

- For initial setup and speed testing, connect a computer directly to the LAN port of the POE adapter using an Ethernet cable.
- Alternatively, connect to the router's 2.4G WiFi network for basic configuration. Note that the 2.4G WiFi is primarily for configuration and not optimized for high-speed data transfer. For accurate speed tests, use a wired connection or connect a Wi-Fi 6 router to the LAN port.

## 5. OPERATING

### 5.1 Accessing the Web Interface

1. Open a web browser on a device connected to the router.
2. Enter the router's default IP address (typically found in the included user manual or on a label on the device) into the browser's address bar.
3. Enter the default username and password to log in to the web management interface.

### 5.2 Network Modes

The router supports various network modes including NAT, Bridge, and Router mode. Configure the appropriate mode based on your specific network requirements and setup.

### 5.3 Advanced Features

- **Band Lock:** This feature allows you to lock the router to specific 5G or 4G frequency bands to optimize performance or stability in certain areas. Access this setting within the web interface.

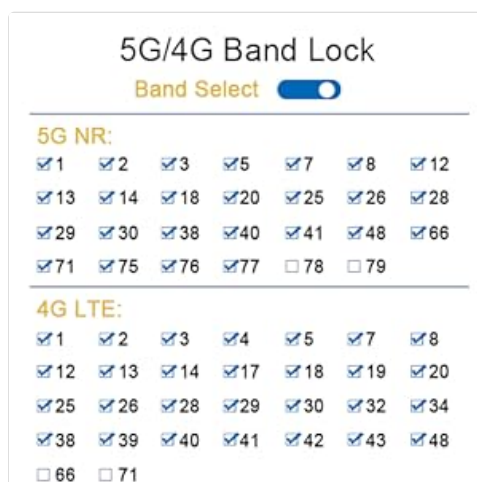


Figure 5.1: Band Lock Settings

- **VPN Client:** The router includes built-in VPN client support for PPTP, L2TP, IPSEC, and Wireguard protocols,

enhancing network security and privacy.



Figure 5.2: VPN Client Support

- **TTL Setting:** Customize the Time-To-Live (TTL) value (e.g., 32, 64, 65, 128, 255, or custom) to suit specific network requirements or carrier policies.



Figure 5.3: TTL Setting Options

## 5.4 High-Speed Connectivity

The NR610-Q X62 supports ultra-fast 5G network connections, with theoretical peak download speeds up to 3.47 Gbps. It is also backward compatible with 4G LTE-A CAT19, offering download speeds up to 1.6 Gbps.

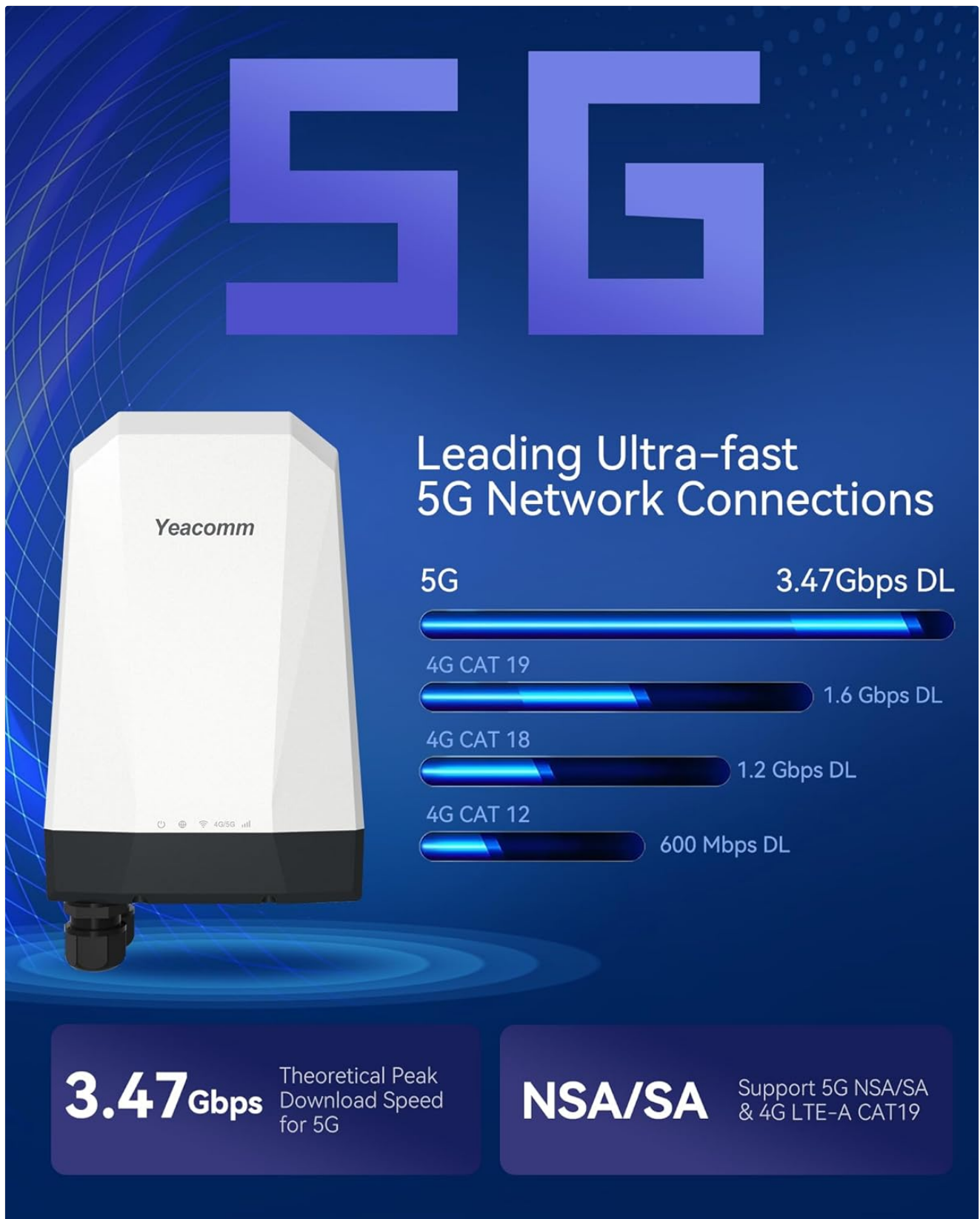


Figure 5.4: Network Speed Capabilities

## 6. MAINTENANCE

### 6.1 Environmental Protection

The NR610-Q X62 features an IP67-rated enclosure, providing robust protection against dust and water ingress. It is designed to operate reliably in extreme weather conditions, with a working temperature range of -30°C to +55°C.

# IP67

Professional Outdoor Shell Design,  
Suitable for Various Harsh Environments.



Waterproof



Dustproof



Heat Resistant



Cold Resistant



Anti aging



UV Resistance



Figure 6.1: IP67 Environmental Protection

## 6.2 Cleaning

Periodically inspect the router for any debris accumulation. Clean the exterior with a soft, dry cloth. Do not use liquid cleaners directly on the device.

## 6.3 Firmware Updates

Regularly check the manufacturer's website for firmware updates to ensure optimal performance, security, and access to new features.

## 7. TROUBLESHOOTING

- **No Internet Connection:**

- Check SIM card installation and ensure it is active with a data plan.
- Verify LED indicators for Power, Internet, and 4G/5G Network status.
- Restart the router and any connected devices.
- Ensure proper POE or DC power connection.

- **Slow Speeds:**

- Confirm strong 4G/5G signal strength via the Signal LED or web interface.
- Perform speed tests via a wired LAN connection or a connected Wi-Fi 6 router, not the router's 2.4G WiFi for configuration.
- Check for network congestion or data caps from your cellular carrier.

- **Cannot Access Web Interface:**

- Verify your device is connected to the router via Ethernet or 2.4G WiFi.
- Ensure you are using the correct IP address, username, and password.
- Try clearing your browser's cache or using a different web browser.

- **Device Malfunction:**

- Perform a factory reset using the Reset button. Note that this will erase all custom configurations.
- If issues persist, contact customer support for further assistance.

## 8. SPECIFICATIONS

Feature	Detail
Brand	Yeacomm
Model Name	NR610-Q X62
Special Feature	Bridge Mode, QoS, Remote Access, Weatherproof
Frequency Band Class	Dual-Band
Wireless Communication Standard	802.11a, 802.11g, 802.11n
Compatible Devices	Personal Computer
Recommended Uses For Product	Outdoor
Included Components	5g outdoor router, Ethernet Cable, Installation Brackets, POE Power Adapter, User Manual
Connectivity Technology	Ethernet, POE
Color	NR610-Q X62

Feature	Detail
Wireless Compatibility	802.11a, 802.11g, 802.11n
Antenna Location	Outdoor
Antenna Type	Internal
Operating System	OPENWRT
Security Protocol	WEP or WPA
Number of Ports	4
Control Method	Remote
Data Transfer Rate	4.67 Gigabits Per Second
LAN Port Bandwidth	4.67 Gbps
Maximum Upstream Data Transfer Rate	2335 Megabits Per Second
Number of Antennas	1
Wi-Fi Generation	Wi-Fi 6
Has Internet Connectivity	Yes
Router Network Type	5G + Wi-Fi
Is Modem Compatible	Yes
Connectivity Protocol	Ethernet
Coverage	Wide outdoor and remote area coverage
Frequency	2.4 GHz
Model Number	NR610-Q
Manufacturer	Yeacomm
Has Security Updates	Yes

## 9. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video 9.1: Yeacomm NR610 Outdoor 5G Router with SIM Card Slot. This video provides a visual overview of the router's features and installation process.

## 10. WARRANTY AND SUPPORT

Yeacomm provides customer support and technical assistance for the NR610-Q X62 5G Outdoor Router. For warranty information, technical inquiries, or troubleshooting assistance beyond this manual, please refer to the official Yeacomm website or contact their customer service team directly. Contact details are typically available on the product packaging or the official website.