

Android Smart PoC Radio

User Manual

IP68 Waterproof & Dustproof



Wifi



I. Safety and Precautions

- 1. Professional Repair:** This device must only be disassembled or repaired by qualified technicians. Do not disassemble or modify it yourself.
- 2. No Unauthorized Modification:** Do not disassemble or modify the radio for any reason.
- 3. Avoid High Temperatures:** Do not leave the radio in direct sunlight or in extremely hot environments for extended periods.
- 4. Stable Placement:** Do not place the radio on an unstable surface, to prevent damage from falling.
- 5. Environmental Protection:** Keep the radio clean and avoid exposing it to excessive dust, moisture, or water (although this device supports IP68 protection, please ensure the seals remain intact and keep the charging port dry).
- 6. Flammable/Explosive Environments:** Never operate the radio or charge the battery pack in flammable or explosive environments.

II. Key Features

- Global Public Network Intercom: Overcomes distance limitations for unlimited long-range communication.
- Android 8.1 Smart System: Supports multiple PoC platforms (Zello, RealPTT, GxinPoC, TASSTA, etc.).
- High-Fidelity, High-Volume Audio Output: Premium audio module delivers clear, loud voice output.
- High-Precision Positioning: Built-in GPS / BDS (BeiDou) / GLONASS global satellite navigation.
- Multiple Call Modes: Supports Group Call, Single Call, temporary calls, and friend intercom.
- Network & Connectivity: Supports 4G all-network compatibility, WiFi (2.4GHz), and Bluetooth BT4.2.
- Advanced Functions: SOS emergency alarm, access control/attendance management, low-battery voice alert, and OTA wireless remote upgrade.

III. Product Specifications

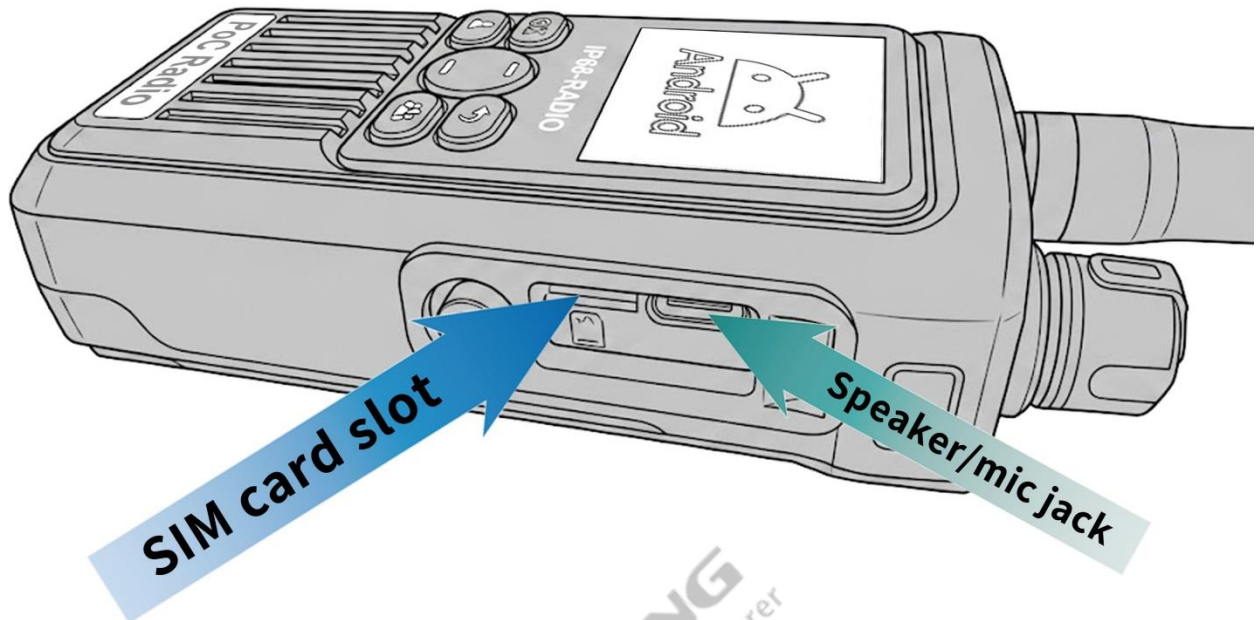
Item	Technical Specification
Operating System	Android 8.1
Processor (CPU)	Quad-core ARM Cortex A7 @ 1.094GHz
Memory Configuration	1GB RAM + 8GB ROM
Display	1.77-inch color display
Network Standard	LTE FDD / TDD / WCDMA / CDMA BC0
Protection Rating	IP68 dust/waterproof rating
Input Voltage/Charging	12V / 24V input, intelligent charging management
Module Dimensions/Weight	45 × 29 × 2.1 mm / 245 g
Operating Temperature	-20°C to +70°C

Network Bands and Data Rates

- LTE-FDD: B1 / B2 / B3 / B5 / B7 / B8 / B20 / B28
- LTE-TDD: B38 / B39 / B40 / B41
- WCDMA: B1 / B5 / B7 / B8 | CDMA / BC0: 850MHz
- WLAN / Wi-Fi: 2.4GHz (802.11b/g/n, ≤50Mbps, supports AP mode)
- Bluetooth: BT4.2
- Satellite Positioning (GNSS): GPS / BDS (BeiDou) / GLONASS
- Maximum Data Rate: LTE-FDD Downlink 150Mbps / Uplink 75Mbps

IV. Basic Operation Guide

1. Install the SIM Card: Before powering on, ensure a valid carrier SIM card is inserted into the SIM slot on the device body.



2. Power On / Power Off

Power On: With the device off, turn the top power/volume knob clockwise. Once powered on, the red indicator will light up and flash; the device will play a welcome voice prompt and automatically log onto the network.

Power Off: Turn the volume knob counterclockwise until you hear a “click.” The red indicator will light up, and the device will power off after 5 seconds.

3. Volume Adjustment: Turn the volume potentiometer clockwise to increase volume and counterclockwise to decrease it;

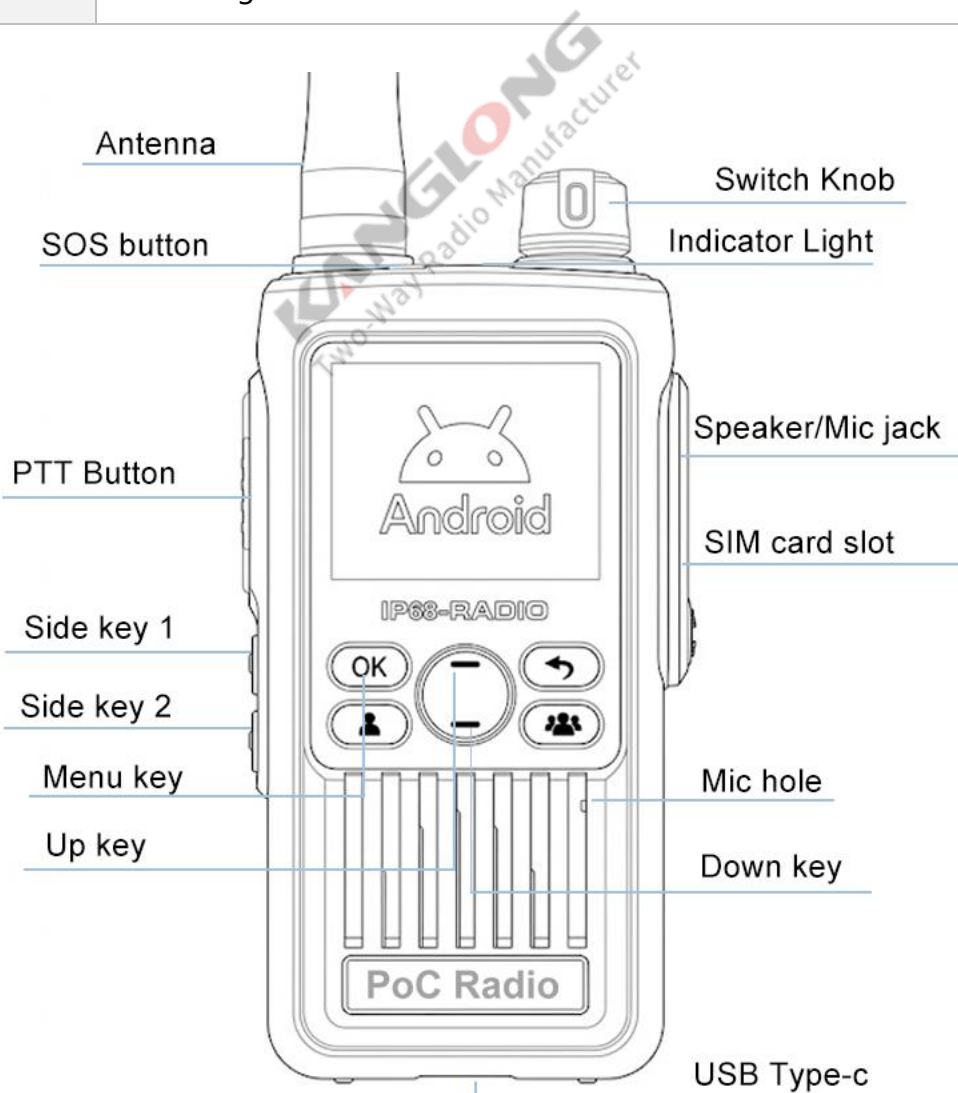
4. Selecting an Intercom Group: In standby mode, use the screen keys to enter the Group List, press the up/down keys to select the target group, and press the PTT key or OK key to confirm entry.

5. Member Selection and Single Call: Enter the member list, select the desired member directly, and press the PTT key to initiate a one-to-one single call.

6. Using the Headset: Plug in the dedicated headset, press the PTT key on the headset's inline remote to initiate a call, and release the PTT key to end speaking.

V. PTT and Key Functions

Key/Function	Operating Instructions and Logic
PTT Transmit Key	A. Initiating a Call: In standby mode, press and hold the PTT key to seize the floor; the red indicator lights up steadily, and you may begin speaking. B. Receiving and Replying: When receiving voice (green indicator lit), wait for the other party to finish speaking, then press and hold the PTT key to seize the floor (red indicator lights up); release the PTT key to release the floor and return to standby.
OK / Menu Key	Enters the main menu, confirms selections, and confirms group or member selection.
Back Key	Press briefly to return to the previous menu;
Group/Member Shortcut Key	Provides quick access to the group list or member list for fast switching of call targets.



VI. Status Indicator Description

Device Status	Indicator Status	Flash Cycle/Duration
Powering On	Red indicator lit steadily	During the boot-up sequence
Initiating a Call (Speaking)	Red indicator lit steadily	Throughout the duration of speech
Receiving Voice (Listening)	Green indicator lit steadily	While receiving voice
Powering Off	Red indicator lit steadily	Turns off after 5 seconds
Low Battery Warning	Red indicator lit steadily	Accompanied by a low-battery voice prompt

VII. Troubleshooting

Symptom	Possible Cause	Solution
Poor Signal Reception / Unable to Call	The network signal is weak at the current location (e.g., basements, dense high-rise areas) or the network is experiencing peak congestion.	Move to a location near a window or an open area; avoid peak hours or try again later.
Noise or Echo	Poor carrier network channel quality, busy lines, or a temporary fault.	Restart the radio; the system will automatically search for and connect to a base station with better network quality.
Reduced Standby Time	Ambient temperature is too high or too low; or the radio is in a weak-signal area, causing it to search for base stations frequently and increasing power consumption.	In weak-signal areas, it is recommended to temporarily turn off the radio; maintain the battery properly and avoid prolonged use in extreme temperatures.
Unable to Connect to the Network	The SIM card has an unpaid balance/exhausted data, is damaged, or has poor contact; data roaming is not enabled; or the radio does not correctly recognize the card.	Check the SIM card's data balance and status; reinsert the SIM card or switch to a valid network server/WiFi.

VIII. Warranty Card and Certificate of Conformity

Product Model	_____ (Android)	Serial Number	_____
Dealer	_____	User Name	_____
Contact Phone	_____	Purchase Date	____ Year ____ Month ____ Day
Contact Address	_____		

Warranty Instructions

1. Please present this warranty card together with valid proof of purchase when requesting warranty service.
2. This card provides a one-year warranty from the date of purchase. The warranty card is invalid if altered or not stamped.
3. Accessories such as chargers, batteries, antennas, and programming cables are not covered by the free warranty.
4. Damage caused by human error, unauthorized disassembly, or force majeure is not covered by the free warranty.

CERTIFICATE OF CONFORMITY (VERIFICATION)

This product has been inspected and verified to comply with national quality standards and factory requirements, and is approved for release from the factory.



RECYCLED PACKAGING