USER MANUAL

IOT GLOBAL RADIOS
Global WIFI / SIM Radio with
Push-To-Talk

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Preface
Thank you for purchasing this product. To derive optimum performance from the product, please carefully read this manual before use.

Notices to the Users
● The use of the product is subject to the laws and regulations of the countries or regions in which it is used.
● You can only use the original accessories or approved by the manufacturer. Any unapproved accessories may affect the performance of the radio, violate the warranty terms of the radio and the relevant provisions of the national communication terminal products, or even cause personal harm.
● Only by qualified technicians for maintenance.
● Do not charge the radio and battery when they are damp.

Packing List
Please unpack carefully and check that all items listed below are received. If any item is missing or damaged, please contact your dealer.

No.	Items	QTY
1	Radio	1
2	Battery	1
3	Antenna	1
4	Belt Clip	1
5	Screws	2
6	Power adapter	1
7	Charger Pod	1
8	User Manual	1

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Battery Information
● The battery pack is not fully charged when purchased, please charge before the first usage.
● Do not short circuit the battery to avoid damaging the battery, generating heat and causing a fire.
● Do not short-circuit the charger, or it would cause electric shock, smog, and damage to the charger.
● Do not use the charger when the cable is damaged, or it may cause fire and electric shock.
● Please clean the dust accumulated on the power outlet over time.
● Do not disassemble or modify the charger. It may cause electric shock, file or damage to the charger.
● Do not use the charger in places with high temperatures or it may cause electric shock, fire or damage to the charger.
● Do not touch the charger, battery, or power outlet with wet hands, or it would cause electric shock.
● Do not place heavy objects on the power cable, or attempt to modify the power cable, otherwise, it may cause electric shock or fire.
● Unplug the power plug from the socket before cleaning and maintenance. Hold the charger when pulling the plug. Rough handling of the power cable could damage it and may cause electric shock or fire when in use.

⚠ If the battery is damaged, avoid touching the contents. If it gets contaminated with the skin, rinse it with plenty of water. If necessary, ask for medical advice.

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Charger Information
● To improve charging efficiency and ensure charging safety, please use 100-240V AC.
● Do not short-circuit the charger, or it would cause electric shock, smog, and damage to the charger.
● Do not use the charger when the cable is damaged, or it may cause fire and electric shock.
● Please clean the dust accumulated on the power outlet over time.
● Do not disassemble or modify the charger. It may cause electric shock, file or damage to the charger.
● Do not use the charger in places with high temperatures or it may cause electric shock, fire or damage to the charger.
● Do not touch the charger, battery, or power outlet with wet hands, or it would cause electric shock.
● Do not place heavy objects on the power cable, or attempt to modify the power cable, otherwise, it may cause electric shock or fire.
● Unplug the power plug from the socket before cleaning and maintenance. Hold the charger when pulling the plug. Rough handling of the power cable could damage it and may cause electric shock or fire when in use.
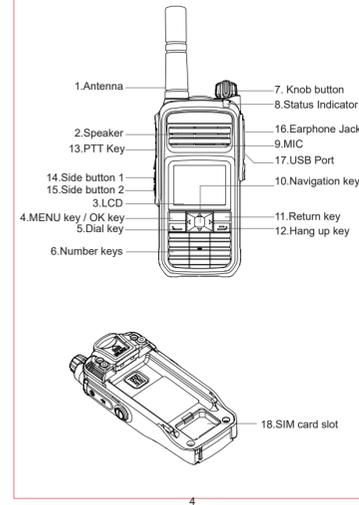
Charging the Battery
Charge the battery with the specified charger and charge the battery as follows:
1. Insert the DC plug of the switching power supply into charger pod, and insert the switching power supply into the AC power output socket, you will see the green light on.
2. Put the battery or the radio into the socket, you will see the red light on.
3. When the LED turns green, it means fully charged. Please remove the power plug and from the power outlet.
(For best result: Please turn off the radio when charging.)

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Radio Overview
This network radio can be used in the LTE 4G network. The radio has powerful performance and professional functions.
With the high-speed broadband connection brought by the latest 4G technology, this radio will perform remarkably well in any business-critical environment.

1.Antenna
2.Speaker
13.PTT Key
14.Side button 1
15.Side button 2
3.LCD
4.MENU key / OK key
5.Dial key
6.Number keys
7. Knob button
8.Status Indicator
16.Earphone Jack
9.MIC
17.USB Port
10.Navigation key
11.Return key
12.Hang up key
18.SIM card slot

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Terminal Introduction

Parts	Function
1.Antenna	LTE 4G main antenna
2.Speaker	Electrical signal is converted into acoustic signal
3.LCD	Display User interface
4.MENU key / OK key	Enter menu. Short press to confirm the operation.
5.Dial key	For dialing or answering phone calls.
6.Number keys	To input numbers,Characters and Punctuation.
7. Knob button (Volume button/Long press to Switch On/Off)	Press and hold the button for 3 seconds to On/Off, rotate the knob clockwise to increase volume, rotate counterclockwise to decrease volume. Short press to on/off screen.
8 Status Indicator	View product specifications in detail
9.MIC	Microphone
10.Navigation key	Press Up, Down, Left and Right to select the functions.
11.Return key	Return to the previous menu, no effect under the main menu; During temporary Voice call mode, short press to exit. When entering text, short press to delete the text.
12.Hang up key	Short press to end and reject the calls.
13.PTT Key	To trigger and release call: Press to talk and release to finish. In temporary call mode, short press to enter the temporary group.
14.Side button 1	Short press to broadcast the current group and enter the group list. Long press to send out SOS.
15.Side button 2	Short press to enter the contact list. Long press to enter "Settings".
16.Earphone Jack	3.5mm
17.USB Port	Used to connect to computer PC software
18.SIM card slot	Micro SIM

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Getting started
Install battery and SIM card
1. Open the SIM card slot.
2. Place the SIM card into the SIM card slot in the right direction.
3. Lock the SIM card plug.
4. Hold the battery and align the bottom of the battery against the bottom of the transceiver.
5. Hold the battery and push the battery down until the battery is locked.

Note:
● Please turn off the radio before inserting or removing the SIM card.
● Avoid touching the metallic area of the SIM card to prevent loss and damage to the information in the card and place it away from electromagnetic fields.

Remove the battery
1. To remove the battery pack, push the battery latch-up.
2. When the battery is released from the terminal, remove the battery.

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Status Indication

LED indicator	Items	Status
Three states: ●Quick flash (1 second once). ●Slow flash (every 3 Seconds once); ●Long glow	Power on status	Power on: press the Knob button, the green light is always on for 5 seconds and then off. The radio will enter the startup screen, and then the startup animation. At this time, the red light is on for 15-20 seconds.
	Network status indication	The red light flashes quickly: 1. SIM card is not activated or arrearage, the terminal cannot register to the wireless network; 2. The quality of the wireless network is very poor, the terminal cannot register; The red light long glows: 1. The card is not installed or the SIM card is installed incorrectly, and the voice prompt "Mobile phone card reading failed"; 2. The device is not configured to be added on the service server. 3. Device has been added, group selector knob group mapping was not successful; 4. SIM card PIN code failed to be unlocked, voice prompt "PIN code error"; 5. When transmitting, glow red light. Green light quick flash: Registering network status; The green light flashes slowly: the network has been successfully registered and entered the standby state;
	Call status	Single call / Group call / Temporary group: Green light glow
	Battery capacity Indicator	1.Low battery (≤15%): Yellow light quick flash; 2.Charging: Red light slow flash; 3.Fully charged(≥90%): Green light slow flash; 4. Standby: Green light slow flash.

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Basic Operation
Power On and Power Off
Press and hold the knob button for 3 seconds until power ON. To power OFF, press and hold the button, a window will pop up on the display, choose "Power OFF" and press MENU key to power OFF the radio.

Display Off / On
If the screen is lit up, short press the knob button to enter the off-screen state otherwise the radio display will automatically switch off after a period of inactivity. Short press the knob to wake up the display.

Home Page
The radio will load on the platform and enter the Home page after power on. Press the Up and Down key to enter Group, Settings, Account or Single call interface.

Status Bar
The status bar displays battery capacity, time, SIM card, registered network status information, etc.

Push-To-Talk function
After the start-up, the radio will automatically enter the default waiting group.

Single Call
On the home page, select Single Call to enter the Single call menu. On the single call mode screen, select a person to call and press the PTT key to initiate a call.

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Group Call
On the home page, select Groups to enter the group menu, select a group in the group list, and press the PTT key to initiate a call. The group becomes an intercom waiting group, and does not receive intercom messages from other groups including the default group.

Group change
Short pressing the side button 1 to change to the desired group and there will be a voice announcement on the Group name. At the same time, the group becomes a Current group - Press PTT to start talking.

Account Setting
On the home page, press Navigation key to enter the Account setting menu, press Menu key to check and setup "Account, Area, Voice broadcast, Bright screen when receiving, Bright screen when calling, Power saving, 8K coding, Adaptive decoding, Style, Start call prompt, End call prompt, Only upload satellite positioning, Version."

Settings
On the home page, long press Side key 2 to enter the Settings. Press and hold down the up and down button of the navigation button to set or view "Network Settings, Location, Startup sound, Phone, Factory settings restoration, Contacts, Call history, and Device status.

WLAN Connect (Optional)
1. Under the "Settings", press the UP/DOWN key to choose WLAN, press Menu key to confirm and enter the WLAN mode, now you can setup to connect the WLAN.
2. Under the WLAN, press OK button to turn ON or turn Off the WLAN. And you can see the "Connected WLANs/

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Available WLANs/saved WLANs".
3. Press the UP/DOWN button to choose the WLAN you wanted, input the correct password and press Menu key to confirm and connect.

Set up the Bluetooth Connection (Optional)
1. Under "Settings", press OK button and press UP/DOWN button to choose BT, and then press OK to enter BT settings;
2. Under BT, press OK button to turn on the BT and your radio will show the BT available list within the range.
3. Press UP/DOWN button to choose the device you want to connect, press OK to connect;
● Paired Device-Bluetooth list: Devices which already been paired previously or currently paired. Long press OK to delete the Paired device.
● Available Device-Bluetooth list: Device/s available for pairing in the surrounding vicinity.
4. If you switched on "Discoverable", other devices may be able to search your Bluetooth.
5. When entering Bluetooth password, press OK to confirm and enter the keyboard, you could long press the side key 2 to switch the Input.

PoC Service
Push-to-talk over Cellular (PoC) provides direct one-to-one and one-to-many voice communication services over the cellular network.
After the start-up, the radio will automatically enter the default waiting group.

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Start a call
When the screen is on, press the side key1, the radio will announce the current group and enters the group list. Press Up key or Down key to select the previous group or the next group, press OK key to enter the member list, press Up or down key to search for members in the group, and press OK to select or cancel members. If a member has been selected at this time, press PTT key to talk with the member, after the intercom, press Back key to enter the original group waiting.

Emergency Alarm (SOS)
Long press the side key 1 to send SOS to the dispatching console and online members.
Note: This function would be invalid if the Dispatch Console did not register an alarm number to the radio ID.

Note:
For more details for the PoC service, please see the PoC Application Guides.

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Troubleshooting

Phenomena	Analysis	Solution
	The battery may be installed improperly.	Remove and re-attach the battery.
The terminal cannot be turned on.	The battery power may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirty or damaged battery contacts.	Clean the battery contacts or replace the battery.
The terminal fails to respond to any operations.	Too many applications are running.	Forcibly stop some running applications or restart the terminal.
The keys do not work normally.	The keypad may fail to function temporarily.	Restart the terminal.
	The keypad is broken.	Contact the dealer for customer service.
The LED indicator does not work normally.	The indicator may fail to function temporarily.	Restart the terminal.
	The indicator is broken.	Contact the dealer for customer service.
The LCD does not display any information.	The display may fail to function temporarily.	Restart the terminal.
	The display is broken.	Contact the dealer for customer service.
The terminal fails to connect to the cellular network.	The SIM card fails to function properly or is out of service because of unpaid charges.	Make sure the SIM card functions properly or pay the charges.
	The cellular network is not enabled for the SIM card.	Contact the carrier to enable the cellular network.
	Weak Signal.	Make sure the radios are within the network coverage.

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Phenomena	Analysis	Solution
During receiving, the voice is weak or intermittent.	The communication signal strength may be weak.	Make sure the radios are within the network coverage.
The volume level may be low.	Increase the volume.	
	The speaker may be blocked.	Clean the surface of the speaker.
The terminal fails to detect the SIM card.	The SIM card may be installed improperly.	Remove and reattach the SIM card.
	The SIM card may suffer from poor contact caused by dirty or damaged metal contacts.	Clean the metal contacts.
The terminal cannot locate your position.	The terminal may not receive signals due to unfavorable position.	Move to an open area and try again.
The battery fails to be charged.	The power adapter plug may suffer from poor contact.	Unplug and re-insert the adapter.
	The data cable connector may suffer from poor contact.	Unplug and re-insert the cable.
	The battery is broken.	Contact the dealer for customer service.

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Safety Precautions
When using the radios, please hold the Device in a correct position as if using a lined telephone. Talk through the microphone and make sure the Device is at an appropriate distance away from your body. Some people may be prone to seizures or dizziness under flashing lights (Such as watching TV). If you have a similar medical history of illness, consult your doctor before using the flash function. Keep the device away from children.

Road safety warnings and precautions
Please follow the relevant traffic safety regulations when driving.

Medical Equipment
Care should be taken when using radio next to certain medical devices such as pacemakers. Keep a distance of at least 20cm between the radio and these medical devices; do not put the radio in your chest pocket. Hold BBGR to the ear at the opposite side of the body where the pacemaker is implanted to reduce potential interference. If necessary, please turn off the radio.
If you have any other question, please consult the medical equipment manufacture before using. Some digital radios may interfere with certain hearing aids. If these disturbances occur, contact the hearing aid manufacture for a solution. If you have any other medical equipment (such as implanted cochlea), consult with the manufacturer to ensure that these devices can shield the surrounding RF signals.
In places with special requirements such as hospitals or recuperation, please pay attention to the restrictions on the use of radios. If necessary, please turn off the radio.

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Your Radio
For best performance, please use original accessories as specified by the factory. Use of any unapproved accessories may affect the radio performance and violate the warranty terms and the relevant national regulations on communication products and may even cause personal injury.
Turn off the devices when cleaning and use a clean Anti-static cloth. Do not use any chemical such as detergent to clean the surface of the device. As the device will generate an electromagnetic field, do not place it near storage media, such as a hard disk.

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