CPS Software Operation Guide

CO04

CO06

CO01

Please note that the digital walkie-talkie needs a frequency writing cable and frequency writing software before it can be used normally.

Where to get the frequency writing cable?
For CO01-https://www.amazon.com/dp/B08S3PSN1Z
For CO04-https://www.amazon.com/dp/B09CQ7Y1HC
For CO06-https://www.amazon.com/dp/B08S3PSN1Z

Where to get the frequency writing software?
https://cotre.afterservice.vip/web/productDetail?id=494

Contents

1. Product Introduction

CPS is used to configure the functions of some walkie talkies, such as channel, zone, etc.

2. Installation and Start-up

2.1 Installation

CPS is green software. The entire program is packaged in a **.rar** format compressed package. You only need to use the standard **Winrar** decompression program to decompress it to any location that is appropriate. There is no need to perform the installation process or worry about any bad impact on your operating system.
CPS is developed using **Microsoft C#.Net**, and your computer needs to install the runtime environment of **.Net Framework 4.6.2** (or higher). You can search the keyword **".Net Framework 4.6.2"** and download it from Microsoft official.

2.2 Start-up

Open the installation package and confirm whether the **"fastpf.exe"** application program exists in the installation package path. If it does not exist, find the correct installation package again. Double-click to run **"Auctus.Cps.exe"** to start the program, the program icon is as shown in the figure below.
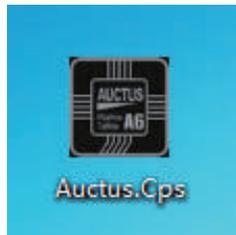
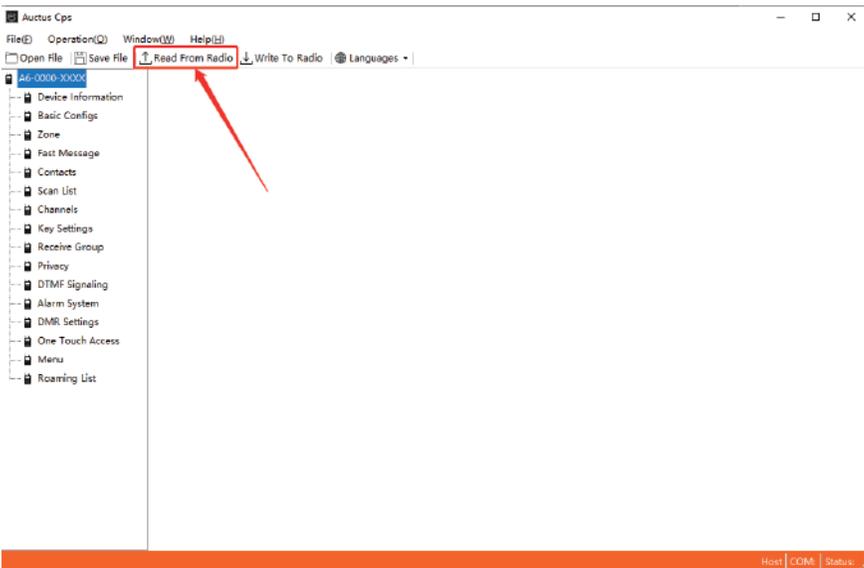The initial interface after opening is as follows.
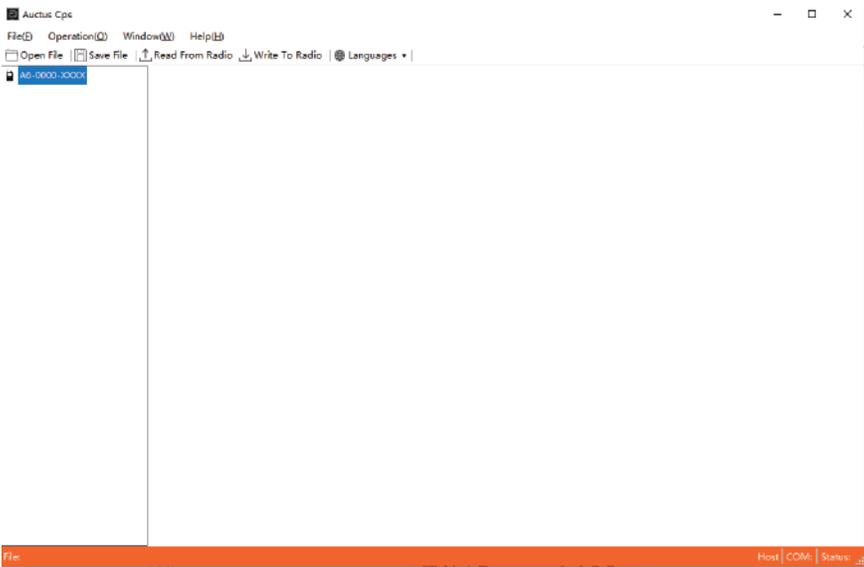
2.3 Frequency Reading

Click **"Read From Radio"** on the interface or select the configuration file to read the frequency. After the frequency reading is successful, the interface is as follows.

2.4 Frequency Writing

Click **"Write To Radio"** on the interface to write frequency, and there will be a prompt if the frequency writing is successful or unsuccessful. The parameter configuration file can be saved before writing the frequency.
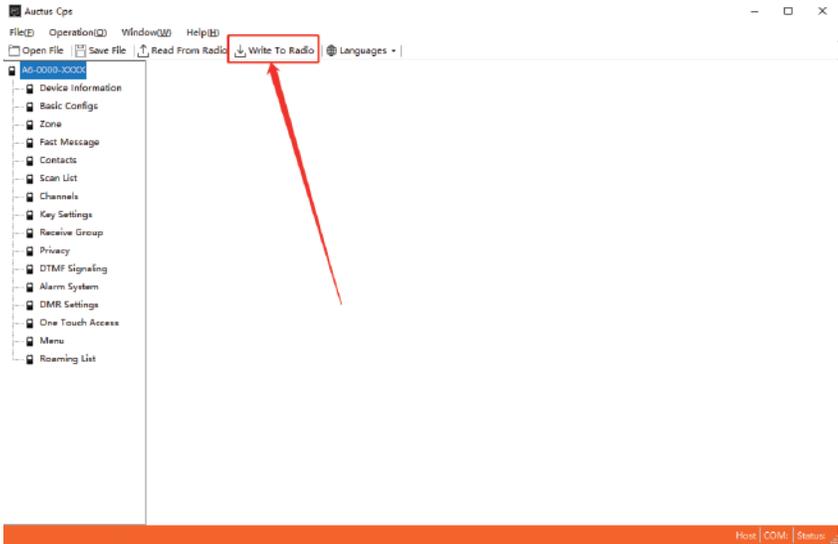
2.5 Saving and Unloading Files

Saving and directly opening configuration files are supported, as shown in the figure below.

2.6 Uninstalling

CPS is green software. There's no need to uninstall it. You only need to delete the entire file directory of the **CPS** program.

3. Function List

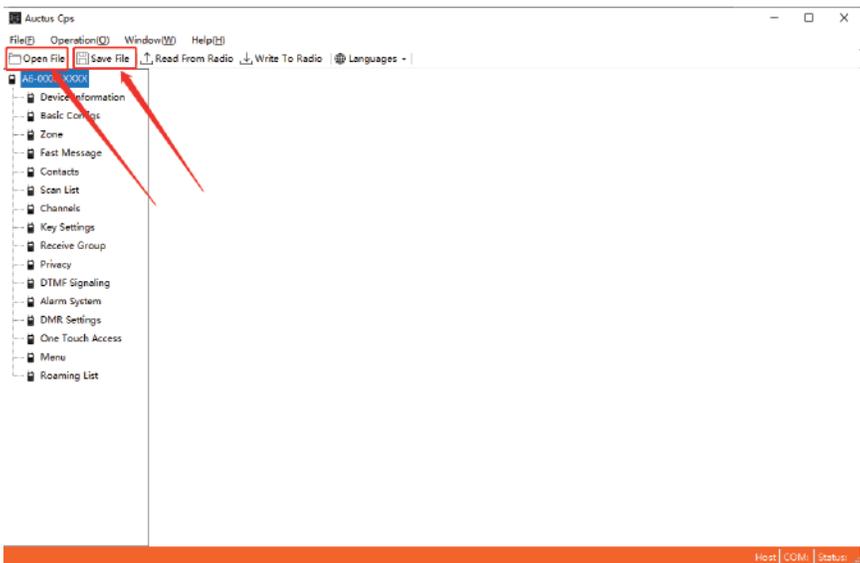The function configuration module in the function list is displayed according to the functions of the device and whether the function is configurable. If there is no such function configuration module, it means that the device does not support the function or the function is not configurable.

3.1 Device Information Module
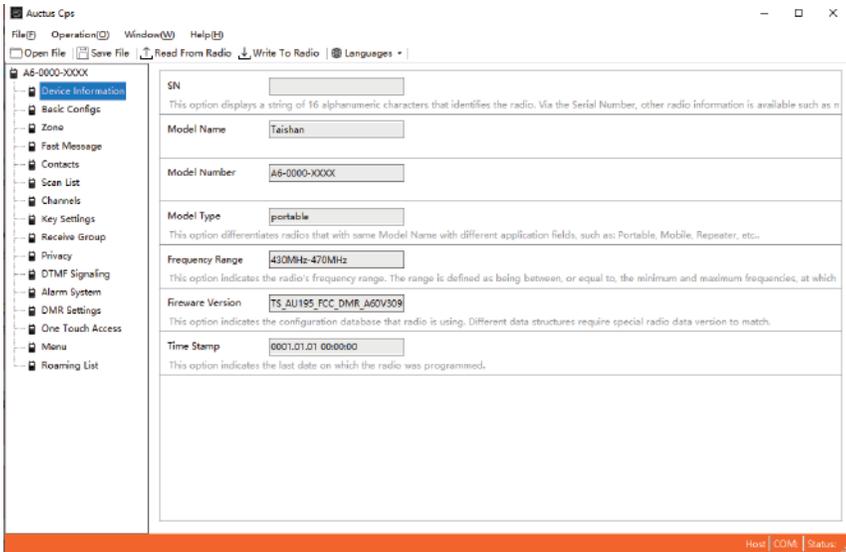
This module only displays the current information of the device and cannot be modified. As shown in the figure above, the parameters can be viewed as follows.

Serial Number (SN): The unique identification of the current device.

Model Name: The model name of the current device.

Model Number: The model feature code of the current device.

Model Type: Display the current device model type, distinguish the models with different purposes under the same model name, generally handheld terminals, vehicle terminals, and transfer stations.

Frequency Range: The working frequency range is supported by the current device, and the terminal must work within this range.

Data Version: Display the software version number of the current device.

Time Stamp: Show the last time the current device writes data through CPS.

3.2 Basic Configuration Module

In this module, the basic settings of the walkie-talkie can be configured. Related parameters that are not supported by the device are not displayed on the configuration page.
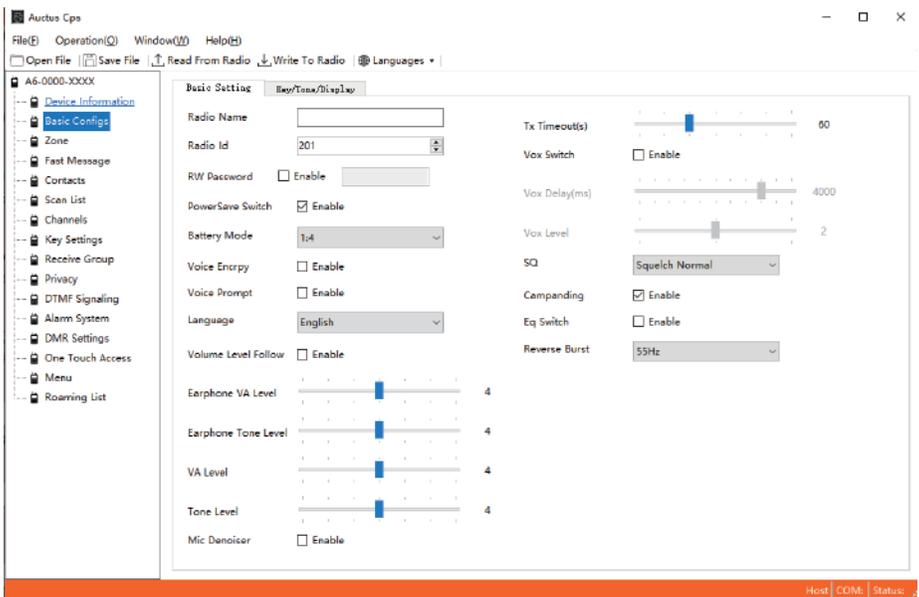
The configurable parameters on the basic configuration page are shown in the figure above.

Radio Name: The name of the current device.

Radio ID: The Id code of the current device.

RW Password: If you check the enabled check box and enter the set password, you will need the password to perform later reading and writing operations after this frequency writing is successful. If you uncheck the enabled check box, then there's no need to enter the password in later reading and writing operations.

Tx Timeout(s): Here you can set the transmission timeout period of the device.

SQ: The higher the squelch level, the stronger the noise suppression ability, and the less interference from noise or other irrelevant information. You can set the squelch level according to your user environment.

Vox Switch: The transmitter is turned on by detecting the signal input by the microphone, and the transmitter can be transmitted without pressing PTT. It is suitable for the situation when both hands are not free. Speak into the microphone to activate the transmitter function to directly communicate with the other party.

Vox Level: The higher the level, the louder the volume is needed to emit. On the contrary, the lower the level, the smaller sound can be emitted, but it is susceptible to the interference of environmental noise and is mis-emitted. You can set the voice control level according to your user environment.

Vox Delay(ms): The VOX delay setting prevents the voice control from turning off immediately after the sound disappears. This avoids that during the call, due to the small gaps between our speaking and sentence pauses, the voice control will be turned off immediately and some voice messages will be missed.

Tone Enable: Here you can configure whether the device turns on the prompt sound function. This option will affect whether the device's prompt sound item settings are available.

Powersave Switch: Here you can configure the power saving switch of the device. This option will affect whether the power saving level setting of the device is available.

Battery Mode: 1:1, the use time can be extended by 1.2s every 1s; 1:2, the use time can be extended by 2.4s every 1s; 1:4, the use time can be extended by 4.8s every 1s. The power-saving level will affect the working mode of the device.

Voice Prompt: Broadcast the operation of the device.

Voice Encryption: Here you can configure the device voice encryption.

Reverse Burst: During a call, the transmitter releases the PTT button to stop transmission, and the receiver will hear a piercing sound like the end sound. Here you can set to eliminate this sound to varying degrees.

Backlight Time(s): Here you can configure the bright screen time of the device.

Companding: After turning on this function, noise can be suppressed and voice quality can be improved.

3.3 Zone Configuration Module
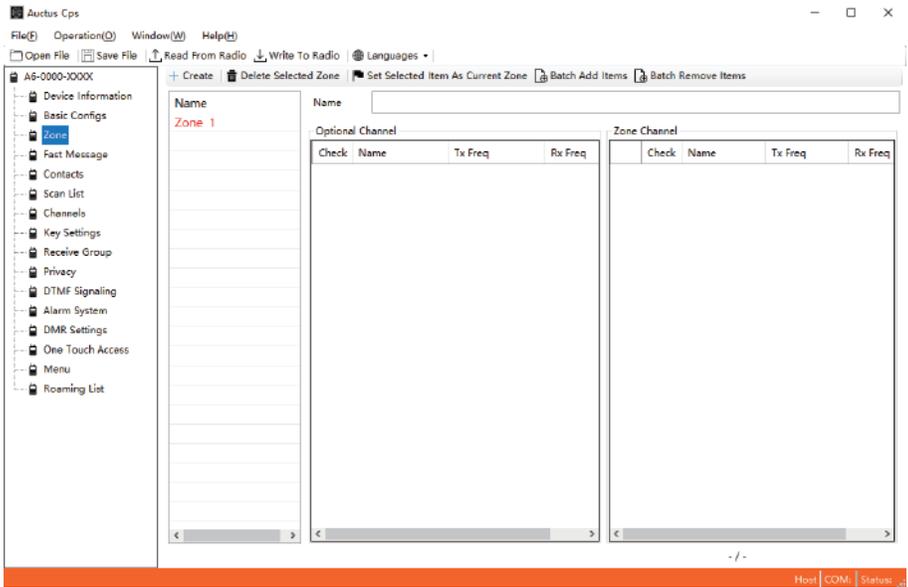
In this module, the working zone of the device and the working channel in the setting zone can be set. If the module is not displayed, it means that the device does not support the configuration of this function.

Different working zones can be created in the device, the channels in the optional channel list stop working, and the channels added to the zone channel list work normally. The lower right corner will display the number of optional channels and the number of zone channels, as well as the maximum number of channels that can be added to the zone.

Clicking one of the zones in the zone list will display the detailed information of the selected zone on the right interface.

Click **"Create"** to create a new zone, click a zone to select it (the background of the item turns blue), and then click **"Delete the Selected Zone"** to delete, or click **"Set Selected Item as Current Zone"** to change the current zone of the device.

After checking the check box of the channel, you can operate it. Click **"Batch Add Items"** to add it to the zone channel, and click **"Batch Remove Items"** to remove it from the zone channel.

3.4 Fast Message Configuration Module
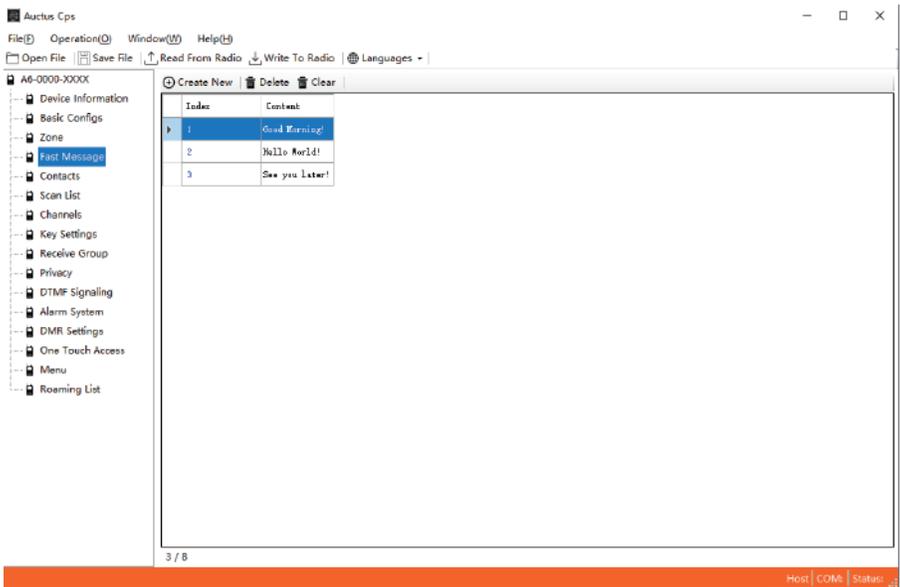
In this module, the parameters of the fast message in the device can be configured. If the module is not displayed, it means that the device does not support configuring this function.

The lower left corner displays the current number of existing fast messages and the maximum number of fast messages that can exist.

Click **"Create New"** to add new fast messages, and click **"Content"** to edit the content of the message.

Click to select a column of fast messages that needs to be deleted to make its background turn blue, and then click **"Delete"** to delete the selected item.

Click **"Clear"** to delete all fast messages.

3.5 Contacts Configuration Module
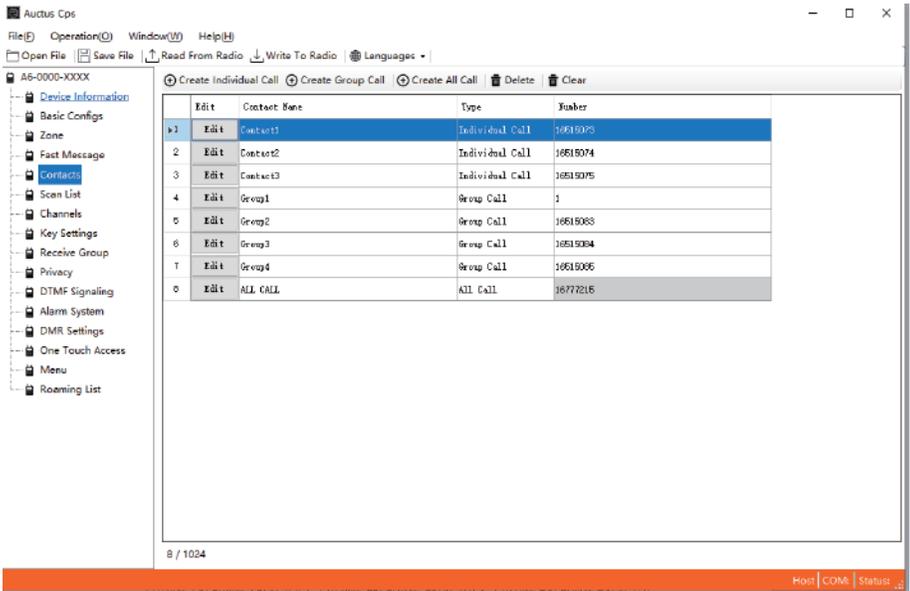
In this module, the parameters of the contacts in the device can be configured. If the module is not displayed, it means that the device does not support configuring this function.

In the bottom left corner, it shows the number of existing contacts and the total number of contacts allowed by the device.

Click **"Create Individual Call"** to create an Individual Call Contact, click **"Create Group Call"** to create a Group Call Contact, and click **"Create All Call"** to create an All Call Contact (a device can only set one All Call Contact).

Click to select a column of contact that needs to be deleted to make its background turn blue, and then click **"Delete"** to delete the selected item.

Click **"Clear"** to delete all contacts.

Click **"Edit"**, and then the following window will pop up.

In this window, you can modify the name, type, and number (the input range is 0~16776415) of contacts.

Note: When there is already an All Call Contact, the type of the contacts cannot be modified as **"All Call"**.

3.6 Scan List Configuration Module

In this module, the parameters of the scan list in the device can be configured. If the module is not displayed, it means that the device does not support configuring this function.

In the lower left corner, it displays the number of currently checked scan lists and the total number of existing scan lists.

Click one of the scan lists, and the detailed information of the selected scan list will be displayed on the right interface.

Click **"Create"** to add new scan lists. Click to select a column of the scan list that needs to be deleted to make its background turn blue, and then click **"Delete"** to delete the selected item. Click **"Clear"** to delete all scan lists.

In the detailed interface of the scan list on the right, the following parameters can be set.

In **"Priority 1"** and **"Priority 2"** :

You can set 3 modes of the channel: **"None"**, **"Fixed"** and **"Selected"** (the current channel where the device is located). Correspondingly, you can set **"None"** to turn off the priority scanning channel, set **"Fixed"** to select a fixed channel, and set **"Selected"** to select a selected channel. In addition, setting **"None"** and **"Selected"** will cause the channel column to be unconfigurable. Only by setting "Fixed" can the channel be configured.

In **"Tx Reply"**:

You can set **"Last Active Channel"** (the last active channel of the device), **"Fixed"**, and **"Selected"**. Setting **"Last Active Channel"** and **"Selected"** will cause the channel column to be unconfigurable. Only by setting **"Fixed"** can the channel be configured.

The residence time is the dwell time of the scanning channel, and the Tx residence time is the channel emission dwell time.

3.7 Channel Configuration Module

In this module, you can configure the parameters of the channels in the device. If the module is not displayed, it means that the device does not support configuring this function.

In the lower left corner, it displays the number of channels currently created and the total number of the channels that may exist.

Click **"Create Channel"** to pop up menus, which will list **"Create Analog Channel"** and **"Create Digital Channel"**. After clicking one of them, the corresponding channel will be added to the channel list.

If the check box of the channel is selected, you can take further steps to click **"Batch Del"** to delete it. After clicking **"Delete All"**, all the channels will be deleted with only the first one left.

Click **"Batch Add"** to pop up the window as below.

The prefix name of the channel can be set on the bar of the Name Prefix. When the channel is created, it will automatically add a digital index number for it. There are two options for the Channel Type, that is, Digital Channel and Analog Channel.
The Create Count determines how many channels are created.

The Tx Frequency and Rx Frequency can be set in the Frequency Config. When the step value of the Tx Frequency and Rx Frequency is 0, the frequencies of all the created channels will be the same. If a certain step value has been set, the frequency of the created channel will increase the step value until it reaches the maximum frequency, and the frequencies of the remaining channels are all at the maximum. Click the 0, 12.5, 25.0 buttons to quickly set the step value.

Click the **"Edit"** button of the digital channel and the following window will pop up.

The name of the channel can be modified in the Name bar. Click **"<-"** to switch to the previous channel, and click **"->"** to switch to the next channel. Click **"OK"** to save the settings, and click **"Close"** and the **"x"** in the upper right corner to close the window without saving any settings. If you have changed any settings, remember to save the settings before closing the page.

If there is any parameter that is not supported by the device, the parameter will not be displayed in the parameter configuration.

Receive Group: When the configurable channel binds with a receiving group, the parameters of the receive group can be configured in the receiver group configuration module. The user can associate a receive group list for the current channel. When any activity occurs on any group in this list, the device will turn on the speaker, and the user can respond or call back within the hold time of the group call.

Scan List: When the configurable channel binds with a scan list, the parameters of the scan list can be configured in the scan list configuration module.

Scan Enable: It can be selected to enable or disable the scanning function of the device, which will affect whether the binding for the scan list is available.

Encryption: When the configurable channel binds with encryption, the parameters of the encryption can be configured in the encryption configuration module.

Tx Power: The Tx power of the configurable channel.

Roaming List: When the configurable channel binds with a roaming list, the parameters of the roaming list can be configured in the roaming list configuration module.

Private Confirm: The user can set whether send a confirmation for the call request when calling someone through the walkie-talkie. The receiver will automatically send a reply to the caller after decoding the confirmation for the call request, and then the voice call is set up.

Alarm System: When the configurable channel binds with an alarm system, the parameters of the alarm system can be configured in the alarm system configuration module. The digital channel can only be used to configure the alarm system of the digital channel type, while the analog channel can only be used to configure the alarm system of the analog channel type.

Direct DTMA: By using a frequency point, supply the members in need with the free time slot. Even when one group is talking, the other group can also make the conversation.

PTT State: Always (Time Slot Mode), Color Same (Color Code Mode), Channel Free (Direct Dual Slot Mode).

Color Code: A color code can be used to mark a system. If users need to talk to each other, they should be set with the same color code. For the channel activity, if the device does not respond or the preset color code is not consistent, it will be judged as communication among different systems. But when the user wants to monitor multiple systems (set different color codes on multiple digital channels), the user can enable the device to monitor the activities of multiple systems by enabling the scanning function.

Contact: When the configurable channel binds with a contact, the parameters of the contact can be configured in the contact configuration module.

Slot: The user can select any time slot for voice calls and data transmission. The walkie-talkies or groups that need to talk to each other must be set to the same frequency and time slot.

Click the **"Edit"** button of the analog channel and the following window will pop up.

In the above figure of the analog channel, the parts with the same names as that in the figure of the digital channel serve the same functions.

Channel Spacing: The difference between the nominal carrier frequencies of two adjacent channels can be used to prevent inter-channel interference.
Tx CTCSS/CDCSS: The configuration to send subsonic coding. It can avoid receiving irrelevant calls.
Rx CTCSS/CDCSS: The configuration to receive subsonic coding. It can avoid receiving irrelevant calls.

When the CTCSS/CDCSS is not set as **"None"**, the drop-down box below it will unfold correspondingly. "-" will display the corresponding subsonic type according to the selected subsonic type, selecting the subsonic type in the drop-down box, and "<-" can change the value of the drop-down box on the right to be the same as that in the left drop-down box.

3.8 Key Settings Configuration Module
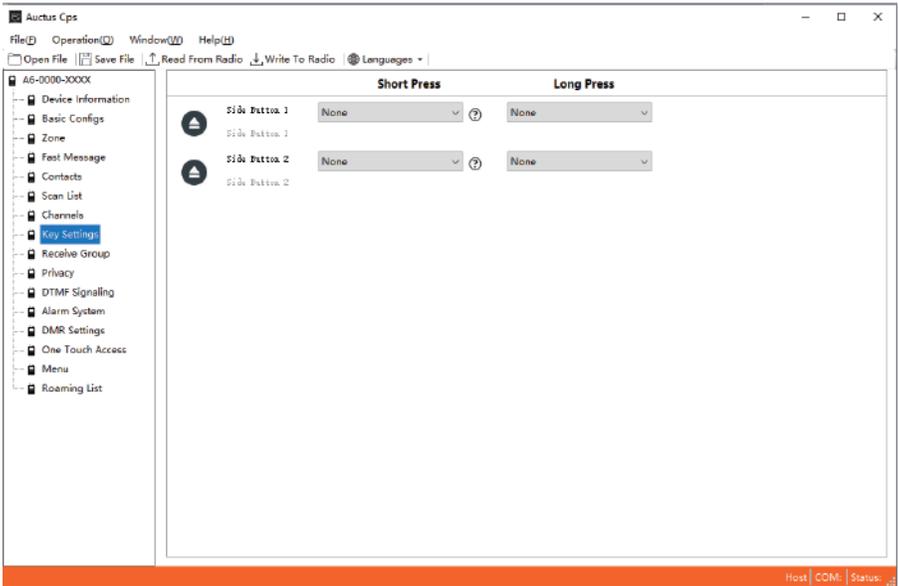
In this module, the parameters of the device's key settings can be configured. If the module is not displayed, it means that the device does not support configuring this function. Click the drop-down boxes of the **"Short Press"** and **"Long Press"** to select the corresponding function.

3.9 Receive Group Configuration Module
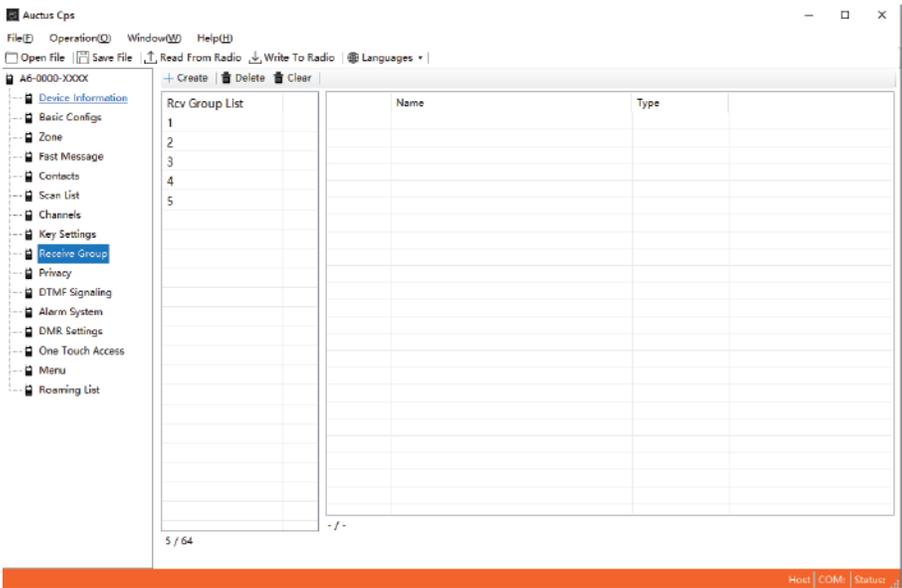
In this module, the parameters of the receiver group can be configured in the device. If the module is not displayed, it means that the device does not support configuring this function. Click one receive group in the list and the detailed information of the selected receive group will be displayed on the right interface.

In the lower left corner, it will display the selected quantity and total quantity of the receiver groups.
Click **"Create"** to create a new receive group. By clicking one receive group, its background will turn blue, and click **"Delete"** to delete it. Click **"Clear"** to clear all receive groups.
If the check box of the contact is selected, it can be added to the receiver group of the device, and those not selected will not be added.
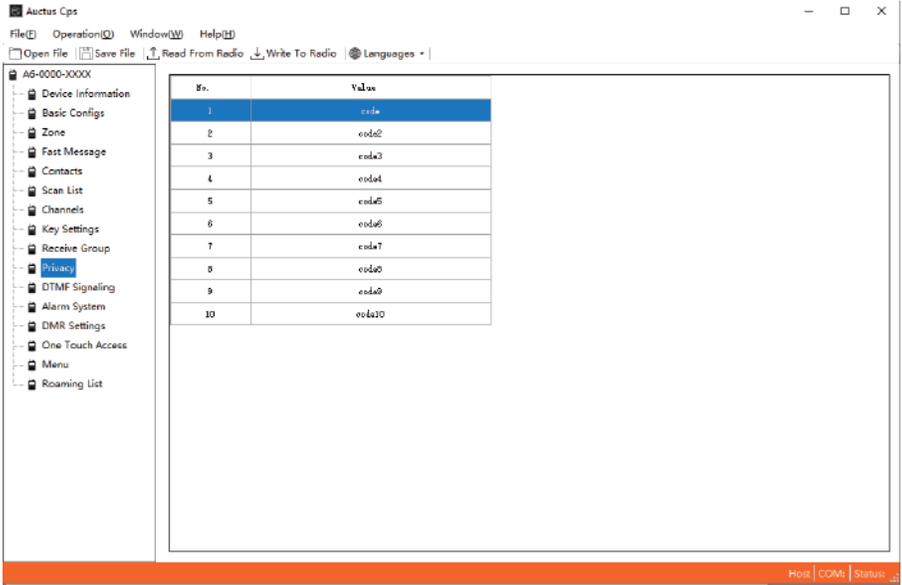
3.10 Privacy Configuration Module

In this module, the parameters of encryption in the device can be configured. If the module is not displayed, it means that the device does not support configuring this function. It is mainly about voice encryption.

Double-click the **"Value"** to edit the key content.

3.11 DTMF Signaling Configuration Module
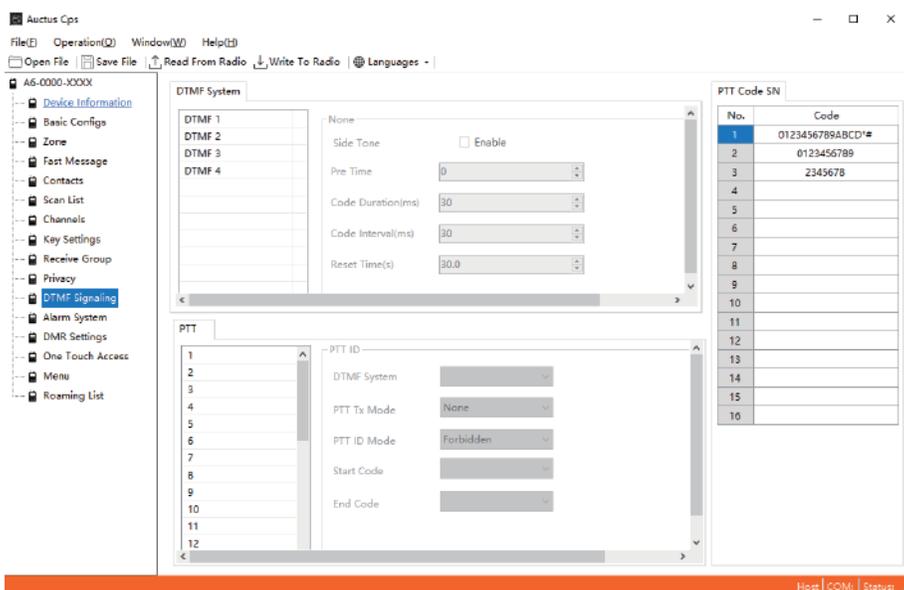
In this module, the DTMF system and PTT encoding template in the device can be configured. If the module is not displayed, it means that the device does not support configuring this function.

Click one of the DTMF systems in the DTMF system list, and the detailed information of the selected DTMF system will be displayed on the right interface of the DTMF system.

Side Tone: It enables to make voice prompts when transmitting PTT or DTMF codes.
Pre Time: The delay time from the start of transmission to the sending of the first DTMF digit.
Code Duration: The continuous sending time of a single code.
Code Interval: The interval time of each digit.
Reset Time: Reset the time of the DTMF digit.
DTMF System: The DTMF system binding with the selected PTT encoding template can be configured. The parameters of the DTMF system can be configured on the DTMF system interface.
PTT Tx Mode: The mode of transmitting the **PTT** ID can be configured. (Process **Related:** None, Pre Only, Post Only, Pre & Post)
PTT ID Mode: The mode of transmitting the **PTT** ID can be configured. (Frequency **Related:** Forbidden, Each, Once)
Start Code: When the **PTT** button is pressed, the radio will transmit the telegram

code immediately after it starts transmitting.

End Code: When the **PTT** button is released, the radio will transmit the telegram code immediately before the end of the transmission.

Click one of the PTT encoding templates in the PTT encoding template list, and the detailed information of the selected PTT encoding template will be displayed on the right interface of the PTT encoding template.

In the PTT code sequence list on the right, double click the code part to edit the code content.

3.12 Alarm System Configuration Module
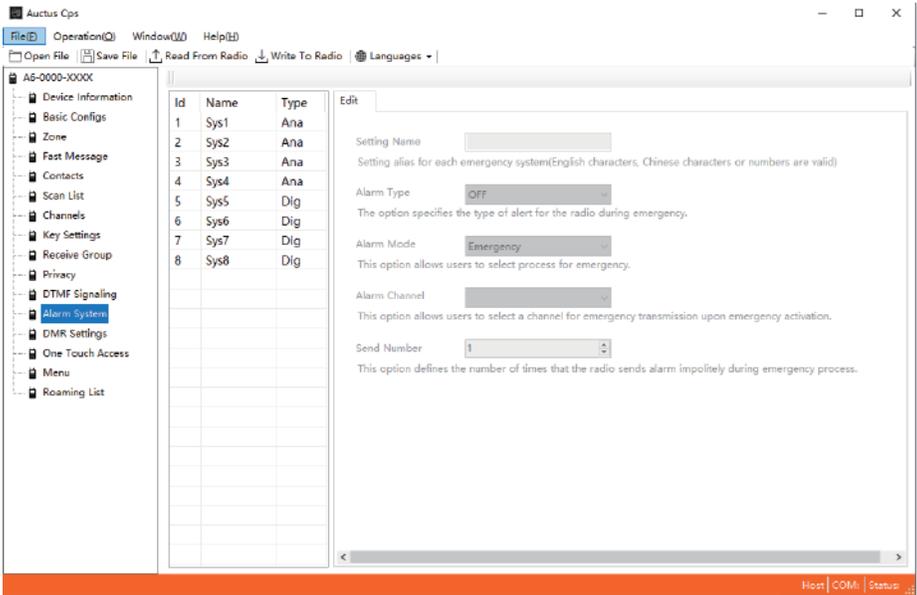
In this module, the alarm system in the device can be configured. If the module is not displayed, it means that the device does not support configuring this function.
By clicking one of the alarm systems on the alarm system list, its background will turn blue, and the detailed information of the selected alarm system will be displayed on the right interface.

Name: The name of the selected alarm system can be configured.
Alarm Type: The indication type of the selected alarm system when it starts the alarm can be configured.
Alarm Mode: The content sent during the alarm process of the selected alarm system can be configured.
Alarm Channel: The transmission channel when the emergency alarm of the selected alarm system is started can be configured.
Send Number: The number of times the emergency alarm code is forcibly transmitted during the emergency alarm of the selected alarm system can be configured.

3.13 DMR Setting Configuration Module
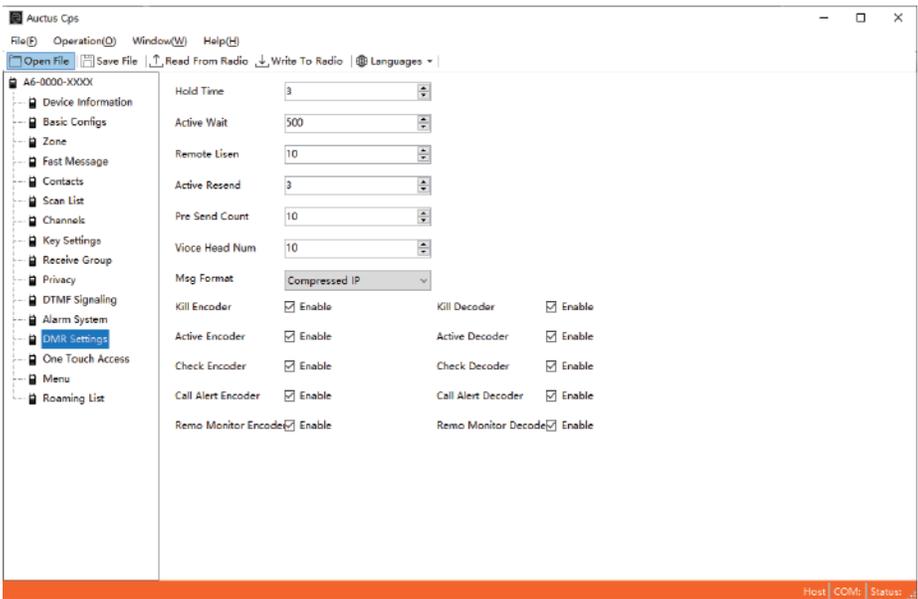
Hold Time: The hold time after calling can be configured.

Active Wake: The wait time after activation can be configured.

Remote Listen: The duration of remote listen can be configured.

Active Resend: The number of re-transmissions after activation can be configured.

Pre Send Count: The number of preambles sent can be configured.

Voice Head Num: The number of voice heads can be configured.

Msg Format: The way of transmitting the messages can be configured.

Kill Encoder: Set whether the walkie-talkie can be conducted by the kill encoder.

**Active Encoder:** Set whether the walkie-talkie can be activated to encode.

Check Encoder: Set whether the walkie-talkie can be checked to encode.

Kill Decoder: Set whether the walkie-talkie can be conducted by the kill decoder.

Active Decoder: Set whether the walkie-talkie can be activated to decode.

Check Decoder: Set whether the walkie-talkie can be checked to decode

3.14 One Touch Access Configuration Module
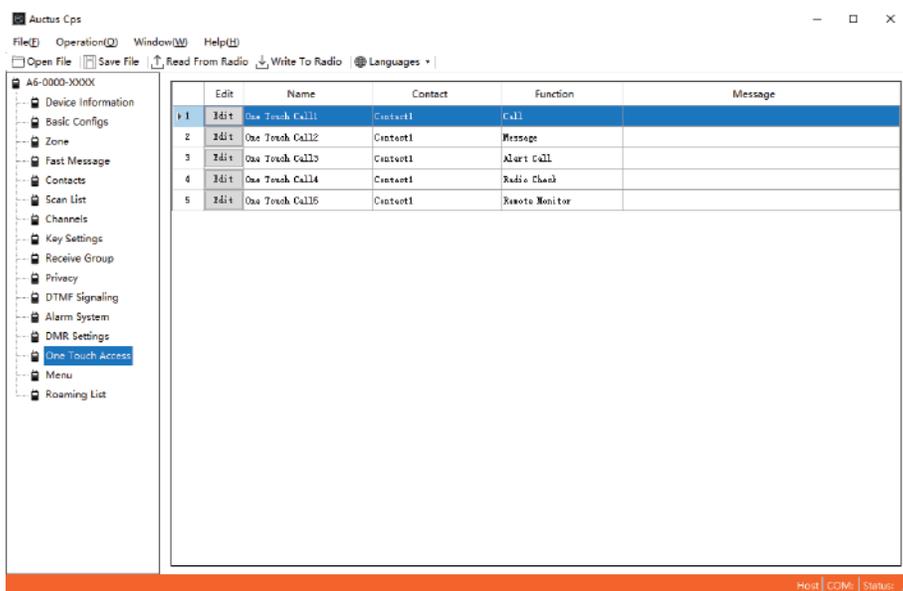
In this module, the parameters of the one touch access in the device can be configured. If the module is not displayed, it means that the device does not support configuring this function. If the device does not support the SMS function, the SMS bar will not appear.

Click the **"Edit"** button and the following window will pop up.
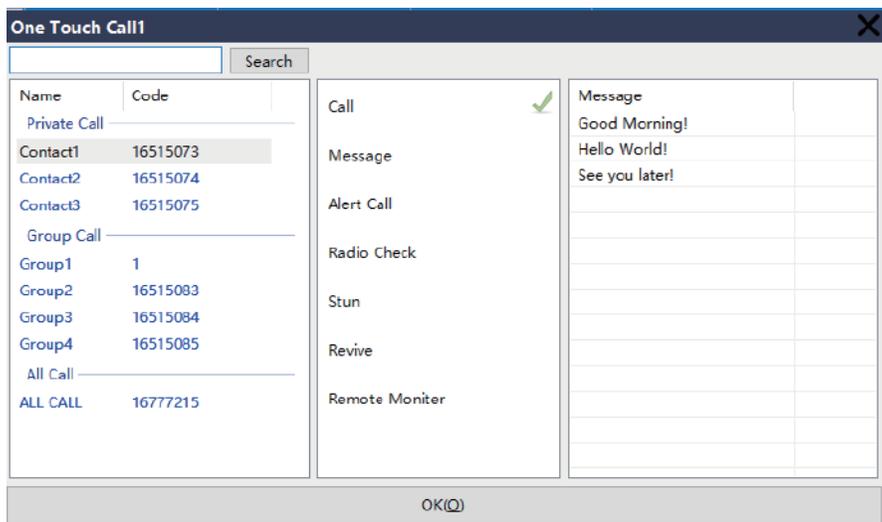
The name and number of the contact could be found in the search bar.

There are 3 columns for the function bar. The left column is the contact list of the one touch call, the middle column is the function list of the one touch call, and the right column is the fast massage list of the one touch call. If the device does not support the SMS function, the one touch call will not appear in the fast massage bar.

In the contact list of the one touch call, click one of the contacts to make its background turn blue, and then click **"OK"** to set the corresponding one touch call contact.

The selected functions in the function list of the one touch call are the corresponding contacts of the current one touch call. Click to select one of the functions to make its background turn blue with the tick selected, and the corresponding function of the one touch call can be set after clicking **"OK"**.

As for the function bar, there are some functions as follows. If it is not supported, it will not be displayed

Call: The function of the one touch call enables to call the corresponding contact through the walkie-talkie.

Message: The function of the one touch call enables to send messages to the corresponding contact through the walkie-talkie.

Alert Call: The function of the one touch call enables to send the alert call to the corresponding contact through the walkie-talkie.

Radio Check: The function of the one touch call enables to check the walkie-talkie of the corresponding contact.

Stun: The function of the one touch call enables to remotely stun the walkie-talkie of the corresponding contact.

Revive: The function of the one touch call enables to revive the walkie-talkie of the corresponding contact.

Remote Monitor: The function of the one touch call enables to monitor the walkie-talkie of the corresponding contact.

The fast massage list of the one touch call can take effect only when the fast massage function is selected in the function list of the one touch call. The parameters of the fast massage list can be set in the fast massage configuration module.

3.15 Roaming List Configuration Module
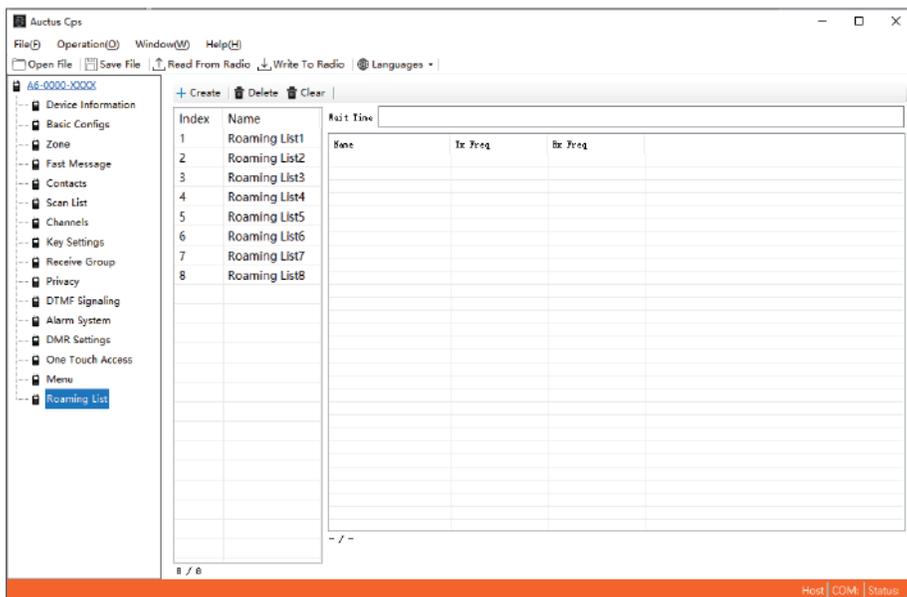
In this module, the parameters of the roaming list in the device can be configured. If the module is not displayed, it means that the device does not support configuring this function. To configure the roaming function separately, please perform the following operations.

Wait Time: The wait time of the roaming list of the channel.
Click one of the roaming lists in the roaming list to make its background turn blue, and the detailed parameters of the roaming list will be displayed on the right interface.
Select the check box of the channel to add the corresponding channel to the roaming list.
In the lower left corner, it displays the number of the selected channels and existing channels.

The roaming function with the intelligent relay station configuration instructions is as follows.

- Enter the channel configuration module and click "Edit". In the editing interface of the channel, the current digital channel frequency can be set to be the same as the frequency of the relay station.

- Enter the roaming list configuration module and select the channels included in the roaming list. All of them can be selected as shown in the figure above.

- Enter the channel configuration module and click "Edit" of the digital channel. In the editing interface of the digital channel, select the roaming list that has been configured.

- Enter the key settings configuration module and configure the roaming switch for the editable key (long-pressing button). In the standby mode, by pressing the editable key to switch the roaming function, the roaming function will take effect after it is turned on.

4. Troubleshooting

4.1 The error message prompts when you use the host communication, such as communication error, being unable to obtain the communication address and the interactive address, etc., which is mainly caused by the walkie-talkie not responding. Herein, the walkie-talkie may have entered the power-saving mode. Under this situation, you need to press the side button of the device or restart the device to activate the device.

4.2 If the problems remain after following the steps in 4.1, please check whether the data cable is connected correctly and whether the device is turned on. After confirming the above operations, you can take further steps to solve the problem. That is, restart the device by removing the battery to force the hardware to power off and then re-installing the battery, followed by unplugging and re-plugging the data cable.

4.3 Do not long press the **PTT** key during the reading and writing of the frequency, or it will cause electromagnetic interference to the serial port, making the serial port work abnormally and making it impossible to read or write the frequency.