

Explorer ConfigTool User Guide

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1. Revision history

Revision	Date	Author	Description of change
1.1	2011-06-23	SHUNG	Initial
1.2	2011-09-14	SHUNG	Change logo
1.3	2011-10-26	SHUNG	GTFKS Full Powerup
1.4	2011-11-1	SHUNG	GTNMD Mode Bit0
1.5	2012-2-3	SHUNG	GTNMD Report battery level
1.6	2012-2-25	SHUNG	Reset Device; Version check; GTDOG

2. Explorer ConfigTool Setup Wizard

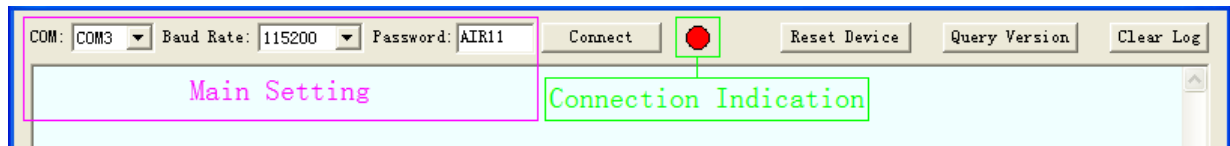
Explorer config tool is PC software which can be used to configure Explorer through data cable. It is easy for the backend server developers to configure Explorer with config tool, which has friendly user interface. The correct command messages sent to Explorer will be displayed on the config tool. (These messages can also be sent by SMS or GPRS).

The administrators can also use the config tool to configure Explorer before selling. But it is strongly recommended to establish a backend server and implement the way to control Explorer by SMS or GPRS. Please refer to “Explorer Interface Protocol” for detail.

Before using the config tool please find “PL2303_Prolific_DriverInstaller_v10518.zip” in develop suit and install the drive for PL2303. After that a new COM port can be found in the PC system, and then please follow the steps as below:

1. Power on Explorer.
2. Connect Explorer to PC with data cable.
3. Run “ConfigTool.exe”.

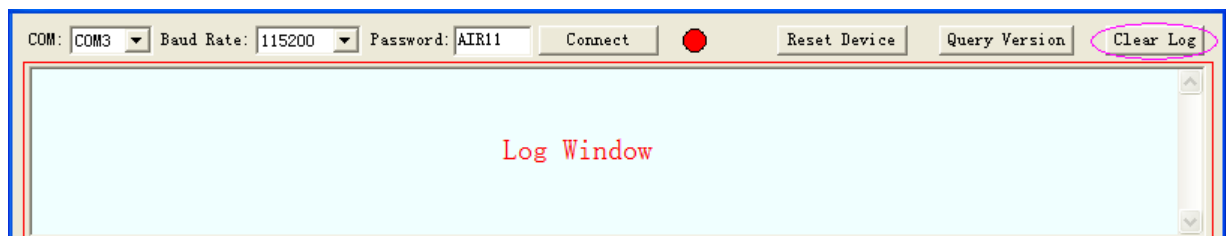
2.1. Main setting



Select the COM port, and keep the baud rate and password with default value. If the password has ever been changed in the target device, please input the new password. If the password length is less than 4 characters, the item background will be colored red, and the allowed maximum length is 6 characters.

Then click the “Connect” button to establish a connection between the config tool and the device. If the connection is successful, the Connection Indication will change to green color.

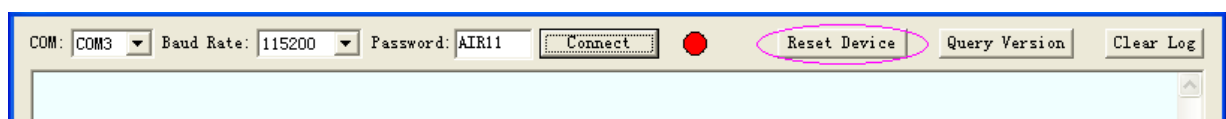
2.2. The log window



The log window shows all the log which have been sent back to config tool from the target device.

When click the “Clear Log” button, all the log will be cleared.

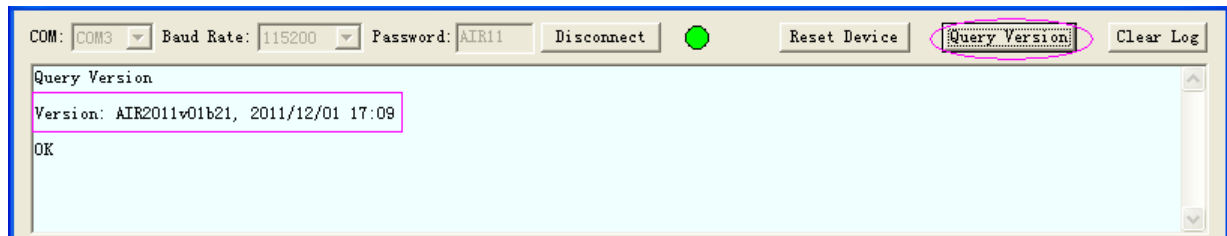
2.3. Reset the device parameters



When click the “Reset Device” button, the confirmation screen will pop up. If the input last 6 digits of IMEI is correct, the device parameters will be reset to factory default except

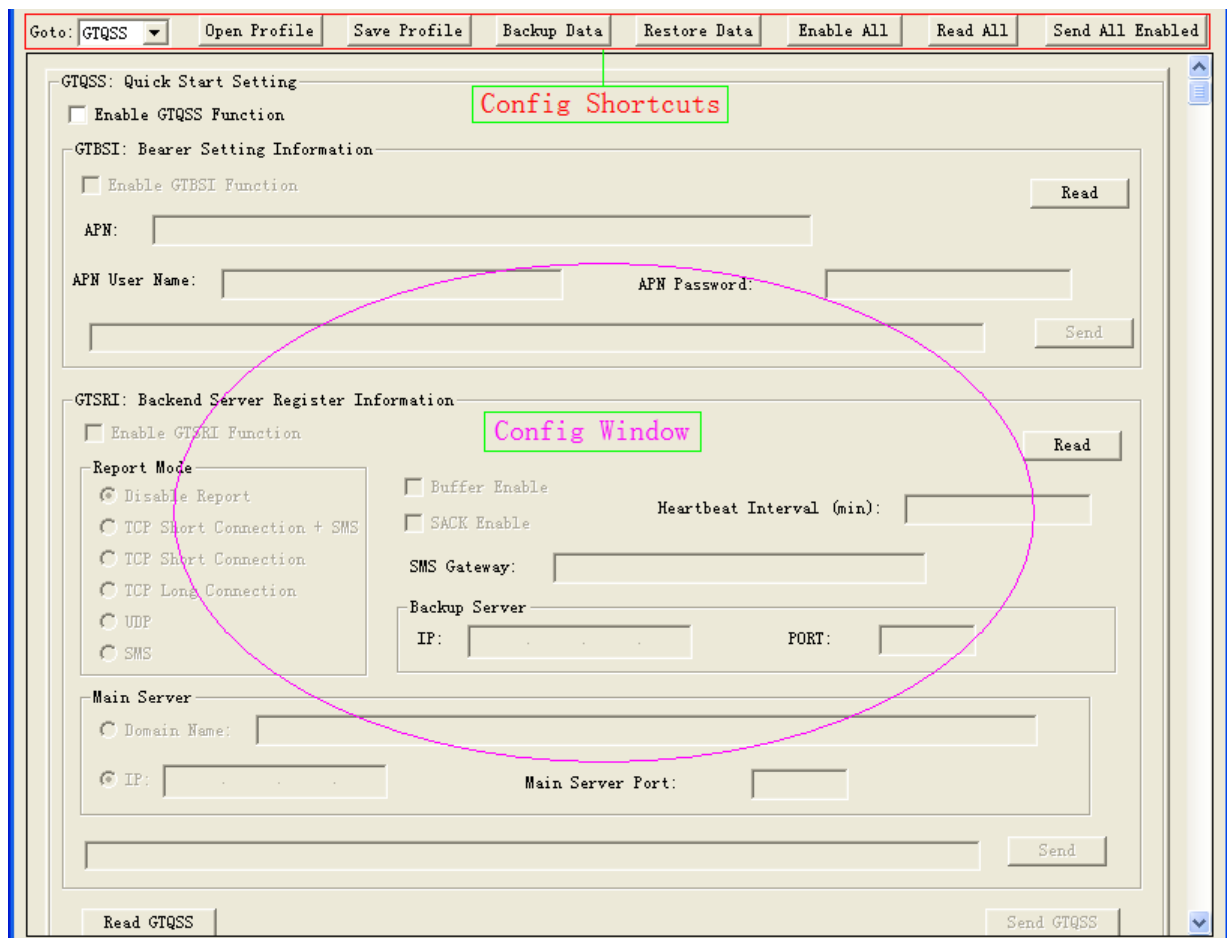
parameters of BSI and SRI.

2.4. Query the software version of device



When click the “Query Version” button, the version information will be displayed.

2.5. The config window and Shortcuts



In the config window, we can set and view the parameters of the functions. If any inputted parameter is not correct, the item background will be colored red.

There are 8 shortcuts:

Goto:

When this box is clicked and a config item is selected, the config window will scroll to the associated position.

Open Profile:

When this button is clicked, all the config parameters, commands and the associated activation status will be loaded from the existed profile file.

Save Profile:

When this button is clicked, all the config parameters, commands and the associated activation status will be saved to the profile file.

Backup Data:

When this button is clicked, all the config parameters will be extracted from the target device and be saved to the backup file. Furthermore, you can select to go on extracting the movement locus log.

Restore Data:

When this button is clicked, all the config parameters will be loaded from the backup file and be sent to the target device.

Enable All:

When this button is clicked, all the config items will be enabled.

read All:

When this button is clicked, all the config parameters will be read out from the target device.

Send All Enabled:

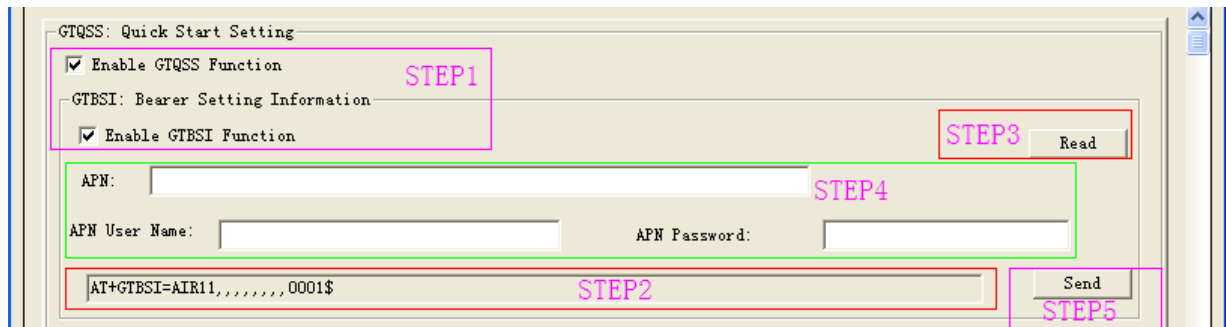
When this button is clicked, all the enabled config commands will be sent to the target device.

2.6. An example to configure Explorer

The config tool is developed based on the Tracker Air Interface Protocol. Please refer to “Explorer Interface Protocol” for detail.

Following is a general procedure to configure Explorer with config tool.

2.6.1. Set the parameters of Bearer setting information



GTQSS: Quick Start Setting

☒ Enable GTQSS Function STEP1

GTBSI: Bearer Setting Information

☒ Enable GTBSI Function STEP1

APN: STEP4

APN User Name: APN Password: STEP4

AT+GTBSI=AIR11,,,,,,0001\$ STEP2

Read STEP3

Send STEP5

STEP1: Select “Enable GTQSS Function” and “Enable GTBSI Function”, after that the parameters of GTBSI can be changed and the "Send" button is enabled.

STEP2: When “Enable GTBSI Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set APN information. Please refer to “Explorer Interface Protocol” for the meaning of each choice.

STEP5: Click the “Send” button; download the parameters of GTBSI to Explorer.

2.6.2. Set the parameters of backend server register information

STEP1: Select “Enable GTQSS Function” and “Enable GTSRI Function”, after that the parameters of GTSRI can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set Report Mode. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Set Buffer Enable. Please refer to the “Explorer Interface Protocol” for detail.

STEP6: Set SACK Enable. Please refer to the “Explorer Interface Protocol” for detail.

STEP7: Set Heartbeat Interval. Please refer to the “Explorer Interface Protocol” for detail.

STEP8: Set SMS Gateway. Please refer to the “Explorer Interface Protocol” for detail.

STEP9: Set the parameters of the secondary backend server.

In the “IP Address” text box, input the internet IP address and port number of the secondary backend server. The valid value of port number is 0-65535.

STEP10: Set the parameters of the main server.

Input the domain name or internet IP address and port number of the main backend server. The valid value of port number is 0-65535.

STEP11: Click the “Send” button; download the parameters of GTSRI to Explorer.

2.6.3. Set the parameters of quick start setting

STEP1: Select “Enable GTQSS Function”, after that the parameters of GTQSS can be changed and the "Send" button is enabled.

STEP2: When “Enable GTQSS Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of all functions. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send GTQSS ” button; download the parameters of GTQSS to Explorer.

2.6.4. Set the parameters of global configuration

GTCFG: Global Configuration

☒ Enable This Function **STEP1** **STEP3** Read

GPS On Need: 1: Close GPS chip after retrieving GPS information every time **STEP4**

New Password: Device Name: AIR2011 GPS Fix Delay (s): 5

Report Items Mask: 001F Set Report Mask ☐ EPB Mode ☒ LED On ☒ Location By Call

Event Mask: OFFF Set Event Mask ☒ Info Report Enable Info Report Interval (s): 300

AT+GTCFG=AIR11,,AIR2011,,,1,5,001F,,,OFFF,0,1,1,300,1,,,,,0002\$ **STEP2** Send **STEP5**

STEP1: Select “Enable This Function”, after that the parameters of GTCFG can be changed and the “Send” button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of all functions. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTCFG to Explorer.

2.6.5. Set the parameters of non-movement detection

STEP1: Select “Enable This Function”, after that the parameters of GTNMD can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of this function. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTNMD to Explorer.

2.6.6. Set the parameters of fixed report information

STEP1: Select “Enable This Function”, after that the parameters of GTFRI can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

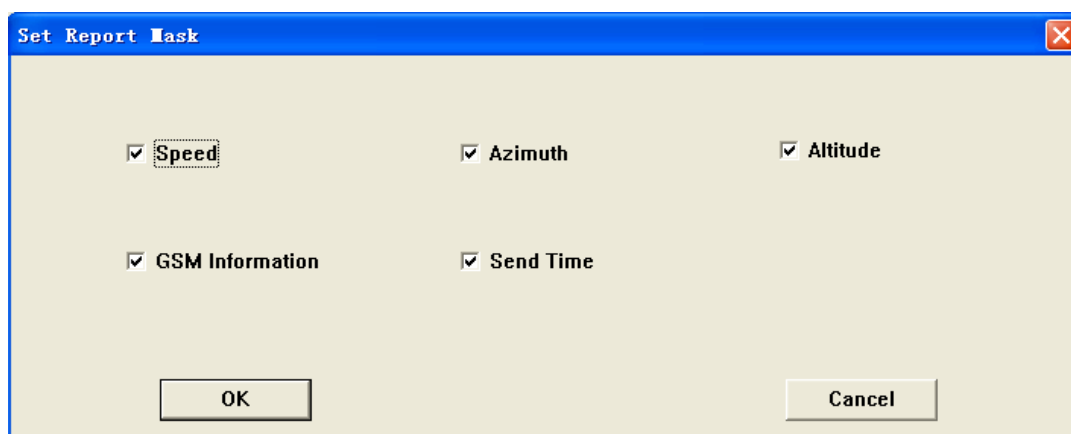
STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set mode .Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Select “Invalid Position For No Fix” and “AGPS Disable”.

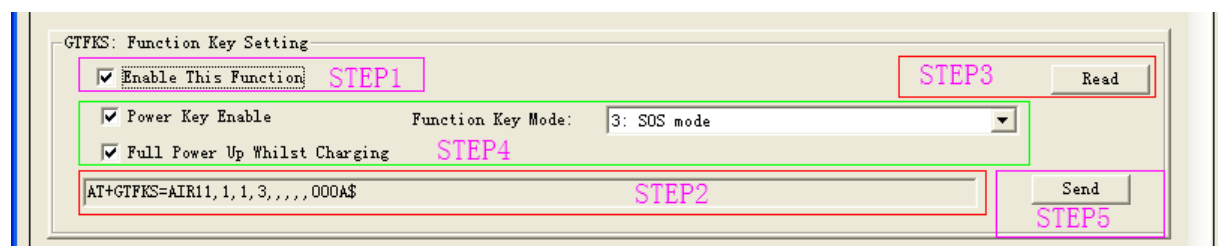
STEP6: Set the parameters of this function. Please refer to the “Explorer Interface Protocol” for detail.

STEP7: Set report mask, please click “Set Mask”, then there will pop up POP box. You may need to set according to report mask parameters.



STEP8: Click the “Send” button; download the parameters of GTFRI to Explorer.

2.6.7. Set the parameters of function key setting



STEP1: Select “Enable This Function”, after that the parameters of GTFKS can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set power key enable or disable and function key mode. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTFKS to Explorer.

2.6.8. Set the parameters of time adjustment

STEP1: Select “Enable This Function”, after that the parameters of GTTMA can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of all functions. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTTMA to Explorer.

2.6.9. Set the parameters of Geo-fence information

The screenshot shows the 'GTGEO: Geo-Fence Information' window. It has a title bar and a main area with the following elements:

- Enable This Function:** A checked checkbox, highlighted by a pink box labeled STEP1.
- GEO ID 0:** A dropdown menu with '0' selected, also highlighted by a pink box labeled STEP1.
- Mode:** A dropdown menu with '0: Disable the Geo-Fence' selected, highlighted by a green box labeled STEP4.
- Radius:** A text field containing '1000'.
- Check Interval:** A text field containing '1', followed by a unit label 'Times the GPS fix interval'.
- Longitude:** An empty text field.
- Latitude:** An empty text field.
- Command Message:** A text field containing 'AT+GTGEO=AIIR11,0,0,,,1000,1,,,,,,0007\$', highlighted by a red box labeled STEP2.
- Buttons:** A 'Read' button (highlighted by a red box labeled STEP3) and a 'Send' button (highlighted by a pink box labeled STEP5).

STEP1: Select “Enable This Function” and “GEO ID X” check box, after that the parameters of GTGEO can be changed and the "Send" button is enabled.

STEP2: When “GEO ID X” check box is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: User can define up to five Geo-Fence regions on Explorer. Each region is a circular area which is defined by central coordinate and radius. When the device enters or leaves a predefined Geo-Fence region, Explorer will send alert information to server.

“GEO ID X”: The "Send" button will be enabled when the associated ID check box is selected. After pressing the “Send” button, the rule of selected Geo-Fences will be downloaded to Explorer.

“Latitude”: 20bytes, unit: degree, example as 31.187891 degree

“Longitude”: 20bytes, unit: degree, example as 121.412248 degree

“Radius”: 7bytes, unit: meter, example as 1000 meters.

“Check Interval”: The interval of GPS checking for Geo-Fence alarm, in terms of times the GPS fix interval.

“Mode”: A numeric which indicates when to report the notification to backend server about the Geo-Fence.

0: Disable the Geo-Fence on the specified GEO ID.

1: Reports when enters the Geo-Fence.

2: Reports when leaves the Geo-Fence.

3: Reports when enters or leaves the Geo-Fence.

STEP5: Click the “Send” button; download the parameters of GTGEO to Explorer.

2.6.10. Set the parameters of speed alarm

STEP1: Select “Enable This Function”, after that the parameters of GTSPD can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of this function. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTSPD to Explorer.

2.6.11. Set the parameters of real time operation

STEP1: Select “Enable This Function”, after that the parameters of GTRTO can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: Select ”Sub Command”. Please refer to the “Explorer Interface Protocol” for detail.

STEP4: Click the “Send” button; download the parameters of GTRTO to Explorer.

2.6.12. Set the parameters of white call list configuration

STEP1: Select “Enable This Function”, after that the parameters of GTWLT can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of this function. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTWLT to Explorer.

2.6.13. Set the parameters of google link SMS configuration

STEP1: Select “Enable This Function”, after that the parameters of GTGLM can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of this function. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTGLM to Explorer.

2.6.14. Set the parameters of auto unlock SIM-PIN

STEP1: Select “Enable This Function”, after that the parameters of GTPIN can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of this function. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTPIN to Explorer.

2.6.15. Set the parameters of GPS fix history log

STEP1: Select “Enable This Function”, after that the parameters of GTSWY can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of this function. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTSWY to Explorer.

2.6.16. Set the parameters of protocol watchdog

STEP1: Select “Enable This Function”, after that the parameters of GTDOG can be changed and the "Send" button is enabled.

STEP2: When “Enable This Function” is selected, the command message which shall be sent to Explorer will be generated based on input and displayed here. Please note this command message can also be sent to Explorer through SMS or GPRS.

STEP3: It is recommended to read the parameters from Explorer and edit based on them.

STEP4: Set the parameters of this function. Please refer to the “Explorer Interface Protocol” for detail.

STEP5: Click the “Send” button; download the parameters of GTDOG to Explorer.