F7X13 User manual

The user manual is suitable for the following model:

Model	Product Type
F7113	GPS+GPRS TRACKER

Xiamen Four-Faith Communication Technology Co., Ltd.

Add : J1-J3,3rd Floor,No.44,GuanRi Road,SoftWare Park,XiaMen,China Zip Code:361008

Tel : +86 592-6300326 , 6300325 , 6300324

Fax:+86 592-5912735

http://www.fourfaith.com

Files Revised Record

Date	Version	Remark	Author
2013-09-20	V1.0	The initial release	Harven

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Dimensions：91x58.5x27 mm (Not including antenna and mounting)

Weight：220g

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Chapter 1 Brief Introduction of Product

1.1 General

F7113 GPS + GPRS TRACKER is an independent research and development of wireless car GPS positioning terminal ,which is designed by Xiamen Four-Faith Communication Technology Co., Ltd.By using global satellite positioning system (GPS), geographic information systems (GIS), public cellular network (GPRS) ,it provide user online vehicle RMON.

The product uses the high-performance industrial-grade 32-bit communications processor, industrial-grade GPS positioning module and industrial grade wireless module, taking embedded real-time operating system software as support platform, providing RS232 interface (with the +5 V power output) for communication with external multiple RS232 devices, and the flexibility of the equipment used; design of low-power, lowest power consumption less than 1mA; 9 IO channels for digital input ,digital output,pulse output,analog input,pulse counting function.

The product can be widely used in car networking in various industries, such as buses, taxis, police cars, armored car, law enforcement vehicles, logistics team, school bus, class lines bus, tourist bus, dangerous chemicals, freight cars and other vehicles

F7113 GPS + GPRS TRACKER typical application shown in Figure 1-1:

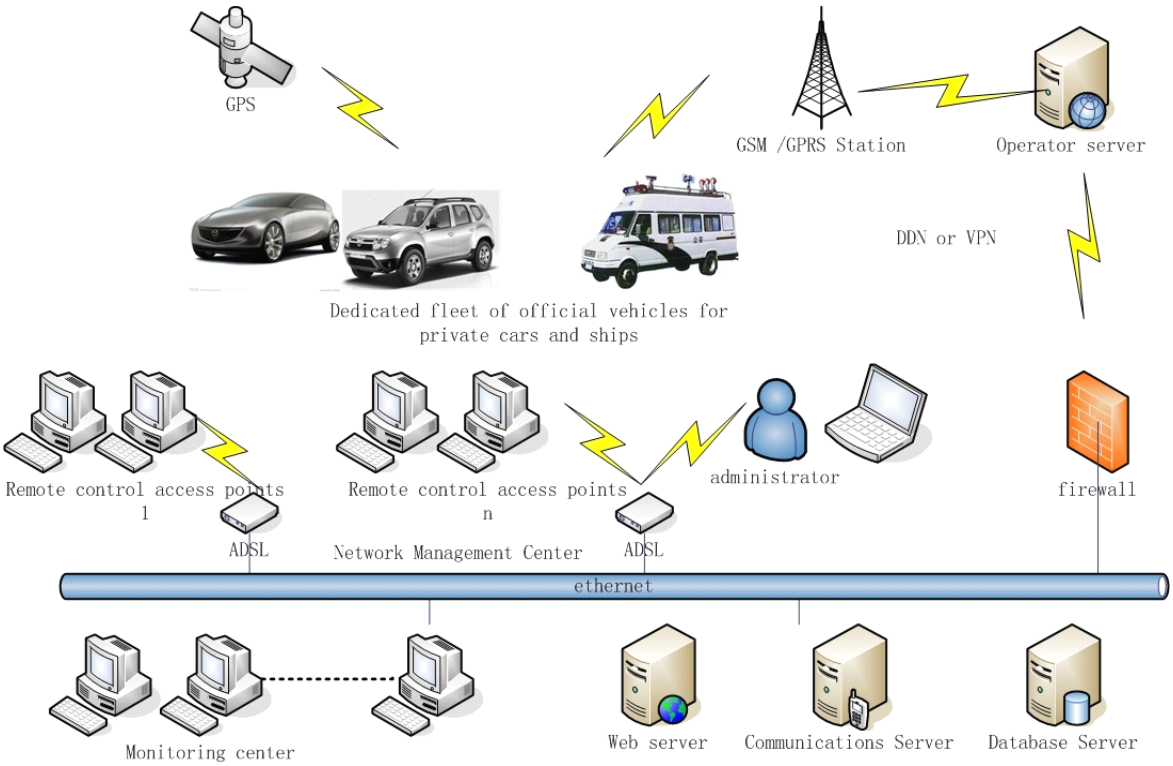

Figure 1-1 F7113 GPS + GPRS TRACKER application topology diagram

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1.2 Features and Benefits

- Real-time wireless data transmission via SMS or GPRS (TCP / UDP)
- Vehicle roll call monitoring
- Historical track playback
- Real time monitoring
- Distance monitoring(optional)
- Listener (optional)
- GSM blind compensation
- GPS blind compensation(optional)
- Can store 9000 messages
- Acceleration sensor(optional)
- SOS alarm
- Motion alarm
- Electronic fence
- Yaw alarm
- Undervoltage alarm
- Down alarm
- Speed alarm
- Ignition detection
- Door switch alarm
- Power off (optional)
- Speed detection
- GPS antenna detection alarm
- Timeout car alarm(optional)
- Overtime parking alarm(optional)
- Built-in lithium battery life of 8 hours
- Two power system,Car electric and lithium battery,which can automatically switch
- Remote management, remote upgrade
- RS232 port with +5 V power output controllable
- IO: 5 digital inputs, 2 OD gate output
- Analog signal input: 2 analog input can be connected to the fuel tank sensor or other sensors.
- Provides powerful GIS electronic map management software, convenient device management
- WDT watchdog design to ensure the stability of the system
- Low-power design, support for multi-stage sleep and wake mode to minimize power consumption
- Built-in real-time clock (RTC), support the timer switch function, timing shutdown state power consumption less than 1mA
- Wide power input (DC 9 ~ 35V), with over-current, over-voltage, reverse polarity protection.

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1.3 Working Principle

The principle chart of F7113 is shown in Figure 1-2:

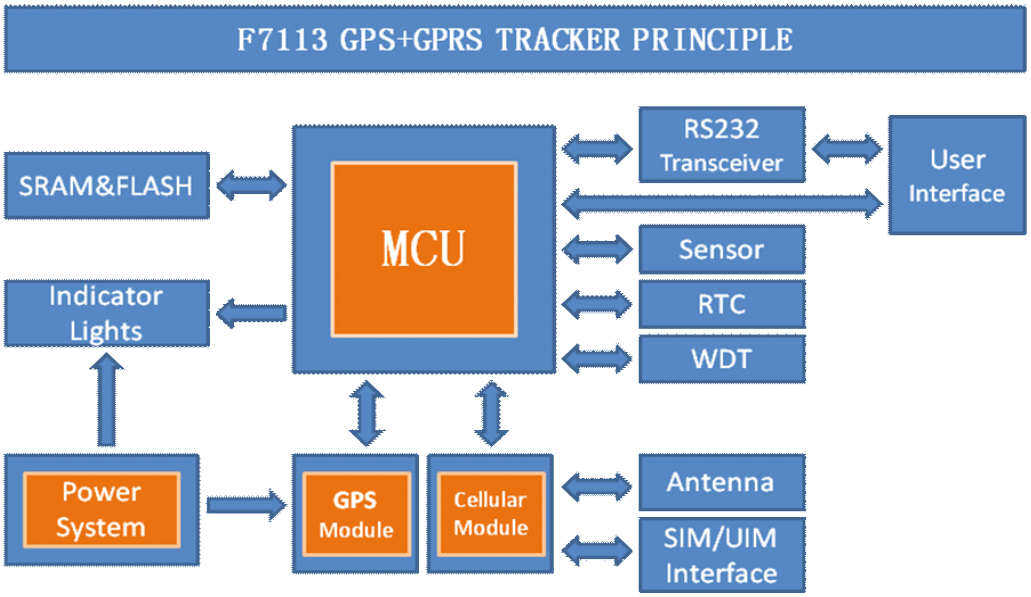

Figure 1-2 The principle chart of F7113

1.4 Specifications

Cellular Specification

Standards and frequency bands	Theoretical bandwidth	Transmit power	Receiver sensitivity
Support EGSM900/GSM1800MHz dual-band optional GSM850/900/1800/1900MHz four frequency Support GSM phase 2/2 + Support GPRS class 10, optional class 12	85.6Kbps	GSM850/900 ：<33dBm GSM1800/1900 ：<30dBm	<-107 dBm

GPS Specification

Item	Contents
Characteristics of the receiver	50 channels,GPS L1 Frequency ,C/A code,SBAS:WAAS,EGNOS,MSAS
TTFF	Cold Start: 32S Warm start: 32S Hot start: 1S Auxiliary start: 3S

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Receiver sensitivity	Tracking and positioning:-160dBm Recapture:-160dBm Cold start:-146dBm Hot start:-156dBm
Horizontal positioning accuracy	GPS：2.5m SBAS：2.0m
Speed Accuracy	0.1m/s
Heading progress	0.5 degrees

Hardware system

Item	Contents
CPU	Industrial grade 32 communications processors
FLASH	2MB (expandable to 8MB)
SRAM	512KB (expandable to 1MB)

Interface Type

Item	Contents
Serial ports	An RS232 interface, built-in 15KV ESD protection, the serial port parameters are as follows: Data bits: 5, 6, 7, 8-bit Stop bits: 1, 1.5, 2 bits Parity: no parity, even parity, odd parity, SPACE and MARK parity Serial rate: 110 ~ 230400bits / s
Indicator	Power, Act, Online, GPS indicator
Antenna Interface	Standard SMA female interface, 50 ohm
SIM / UIM card interface	Standard user card drawer interface, support 1.8V/3V the SIM / UIM card, built-in 15KV ESD protection
Power Interface	Car Universal terminal interface, built-in power inverting protection, overcurrent protection, overvoltage protection

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Power input

Item	Contents
Standard power	DC 12V
Supply range	DC 9~35V

Electrical characteristics of the IO port

Item	Contents
Digital IO	withstand voltage: 0 - 50V.
Analog IO	withstand voltage: 0 - 24V
High trigger level	start voltage: 3.3V
Low trigger level	start voltage: 1V
OD door	drive relay capacity: 4.2A @ 20V
ADC	acquisition voltage range :0-24V. Precision 10-bit

Power consumption

Work status	Power Consumption
Communication status	110mA@12VDC;
Standby state	30mA@12VDC;
Hibernation	8mA@12VDC;
Timing shutdown state	0.6mA@12VDC;

Physical characteristics

Item	Contents
Shell	Metal housing, protection class IP30. The shell and system security isolation, particularly suitable for industrial control field applications
Dimensions	91x58.5x27 mm (Not including antenna and mounting)
Weight	205g

Other parameters

Item	Contents
Operating Temperature	-20~+55ºC (-4~+131℉)
Extended Operating Temperature (No battery)	-30~+75ºC (-22~+167℉)
Storage Temperature	-40~+85ºC (-40~+185℉)
Relative humidity	95%(Non-condensing)

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Precautions

In order to ensure the safe use of the F7113 GPS + GPRS TRACKER device, please carefully read and observe the following precautions:

- The device is not waterproof, suggested to be installed in a dry environment, away from wet, drip and sprinkler.
- The equipment should be installed in the ventilation part in the vehicle, and ensure away from the heat source on the vehicle. Should not be installed in a closed space.
- If possible to extend the life of equipment, the equipment installed in the weaker parts of the vehicle vibration, such as the driver behind.
- Comply with the specifications of all electronic products, as well as the installation and operation of equipment, vehicles and other requirements of the connected device.
- Device power directly to DC 9V to 35V input range, please be careful not to reverse output can not be short-circuited. Please note that the power supply capacity of the power cord.
- The device information interface level, the external voltage is less than 1V is low, higher than 5V lower than 35V is high, long-term than 35V, will result in equipment damage. Voltage greater than 1V less than 5V for illegal value.
- Protective equipment internal circuit, do not in any other interface signals to a high voltage signal is applied, and to ensure that no illegal short circuit.
- Handling and transfer equipment, make sure that gently. The drop can cause damage to the internal hard drive and other precision parts.
- All connectors and components need plugging in the power-off state, to prevent damage to the equipment and components
- The antenna should be placed the windscreen below or outside the vehicle, install the required firm; antenna above can not have any metal objects obscured.

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Chapter II Installation Introduction

2.1 General

The F7113 must be installed correctly to make it work properly.

Warning: Forbid to install the F7113when powered!

2.2 Encasement List

Name	Quantity	Remark
F7113 host	1	
Cellular Antenna	1	
GPS Antenna	1	
Power adapter	1	
RS232 data cable	1	optional
RS485 data cable	1	optional
Manual CD	1	
Certification card	1	
Maintenance card	1	

2.3 Installation and cable connection

Dimensions：(unit:mm)

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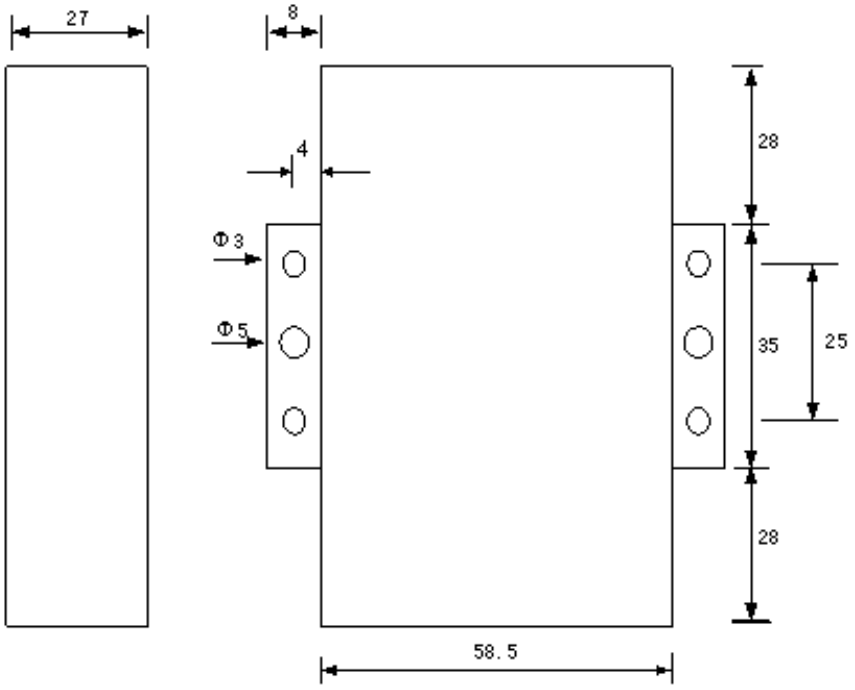

Figure 2-1 Installation chart

Installation of SIM/UIM card:

Firstly power off the IP MODEM, and press the out button of the SIM/UIM card outlet with a needle object. Then the SIM/UIM card sheath will flick out at once. Put SIM/UIM card into the card sheath (Pay attention to put the side which has metal point outside), and insert card sheath back to the SIM/UIM card outlet.

Warning: Forbid to install SIM/UIM card when powered!

Installation of antenna:

Screw the SMA male pin of the cellular antenna to the female SMA interface of the F7113with sign “ANT”.

Screw the SMA male pin of the GPS antenna to the female SMA interface of the F7113with sign “GPS”.

Warning: The cellular antenna and the GPS antenna can not be connected wrongly. And the antennas must be screwed tightly, or the signal quality of antenna will be influenced!

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Interface signal Definitions:

Interface number	The name of the interface and cable labels	Interface functions
1	PWR	The vehicles power input positive
2	GND	Vehicle ground
3	MIC-	Microphone signals negative
4	MIC+	Microphone signal positive
5	+5V	+5 V power output
6	RXD	RS232 serial data receiving end
7	SOS	Manual alarm
8	TXD	RS232 serial data sender
9	ACC	Ignition detection
10	PARK	Parking Detection
11	DOOR	Keyless Entry Detection
12	PULSE	Pulse input
13	OIL	Oil detection
14	OD	OD gate output
15	AI	Custom analog input
16	RELAY	Relay Output

Wire connection guide:

There are total Three wires， but MIC wire and SOS wire are optional.

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Standard wire

MIC wire

SOS wire

Wire connection chart is as follows:

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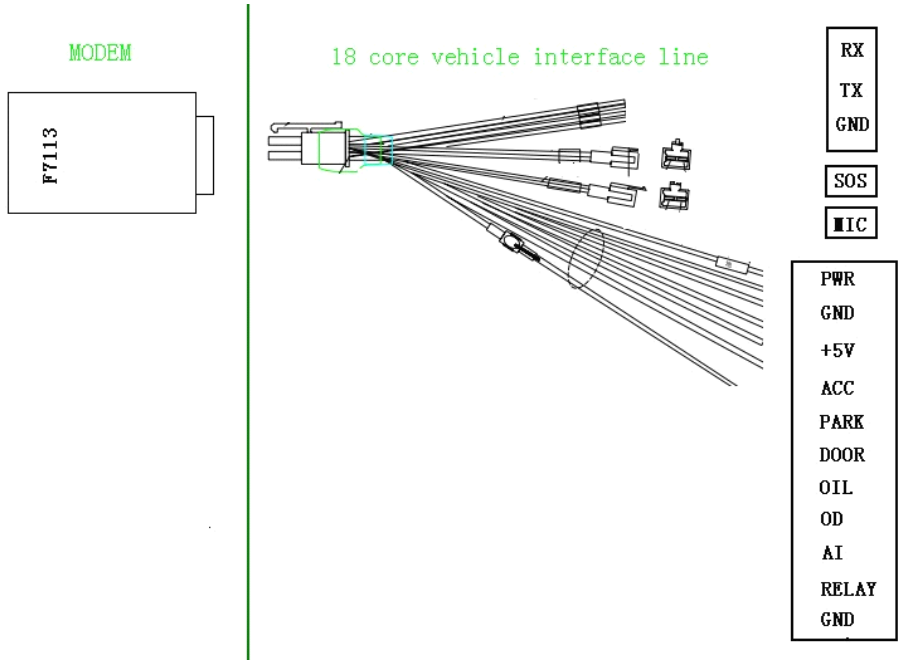

Wiring instructions:

PWR: connected to the car battery positive

GND: connected to the car battery negative

Mic : for remote monitoring.

+5 V: connect to a +5V power-supply equipment

RXD: receiving end of equipment serial

TXD: l sender of equipment seria

SOS: press the button for SOS

ACC: detect the Ignition status of car

PARK:detect the parking status of car

DOOR: Test the door is on.

OIL: connect to fuel sensor

OD: OD gate output

AI: custom analog input , the range of Input voltage is 0-24V.

RELAY: oil off,Power outage,Use with electrical relays

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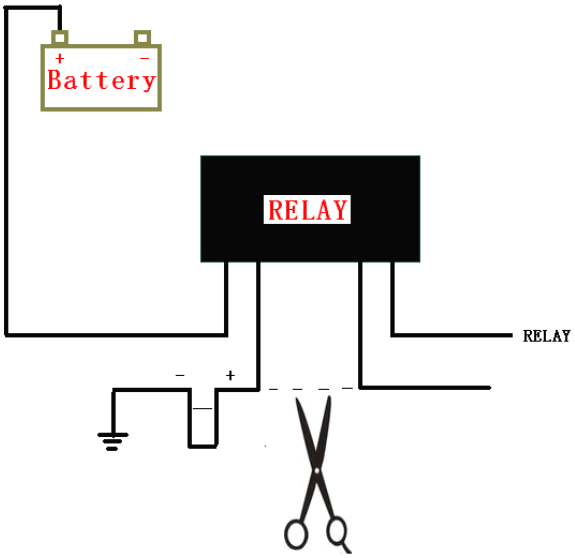
Example: cut off the flameout line , and connected to a relay controlled terminal. Then connect relay kicked to the battery anode, the last pin connect to "RELAY" line.



2.4 Indicator Lights Introduction

F7113 has four lights: "Power", "ACT", "Online", "GPS".

Indicator light	Status	Introduction
Power	OFF	TRACKER is powered off
	ON	TRACKER is powered on
ACT	OFF	No data communication
	BLINK	Data is communicating
Online	OFF	TRACKER hasn't logged on network
	ON	TRACKER has logged on network
GPS	ONE SECOND BLINK	GPS positioning
	ON	GPS not fixed

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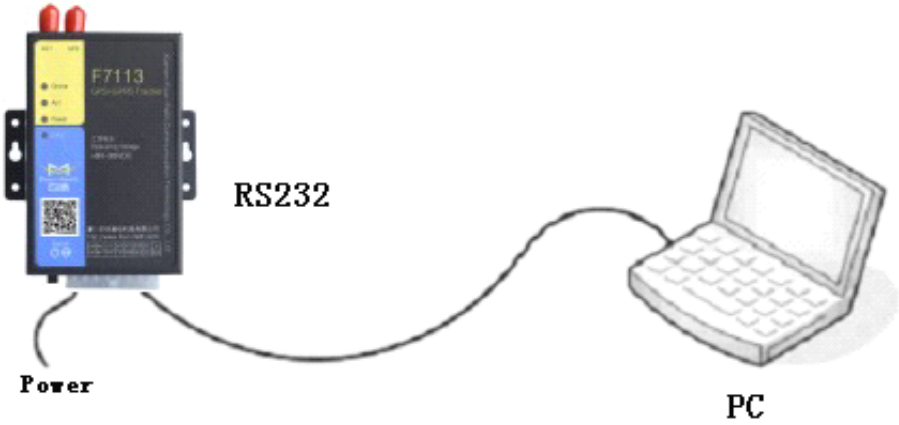
CHAPTER III configuration

3.1 Configuration Connection

Before configuration, It's necessary to connect the F7113 with the configure PC by the shipped RS232 conversion cable as following.



3.2 Configuration Introduction

There are two ways to configure the IP MODEM:

Configuration software tool: All the settings are configured through the shipped software tool. It's necessary to have one PC to run this tool.

Extended AT command: All the settings are configured through AT command, so any device with serial port can configure it. Before configuration with extended AT command, you should make F7113enter configure state. The steps how to make F7113enter configure state, please refer to appendix.

The following describes how to configure F7113with the configure software tool. At the same time, it gives out the corresponding AT command of each configuration item.

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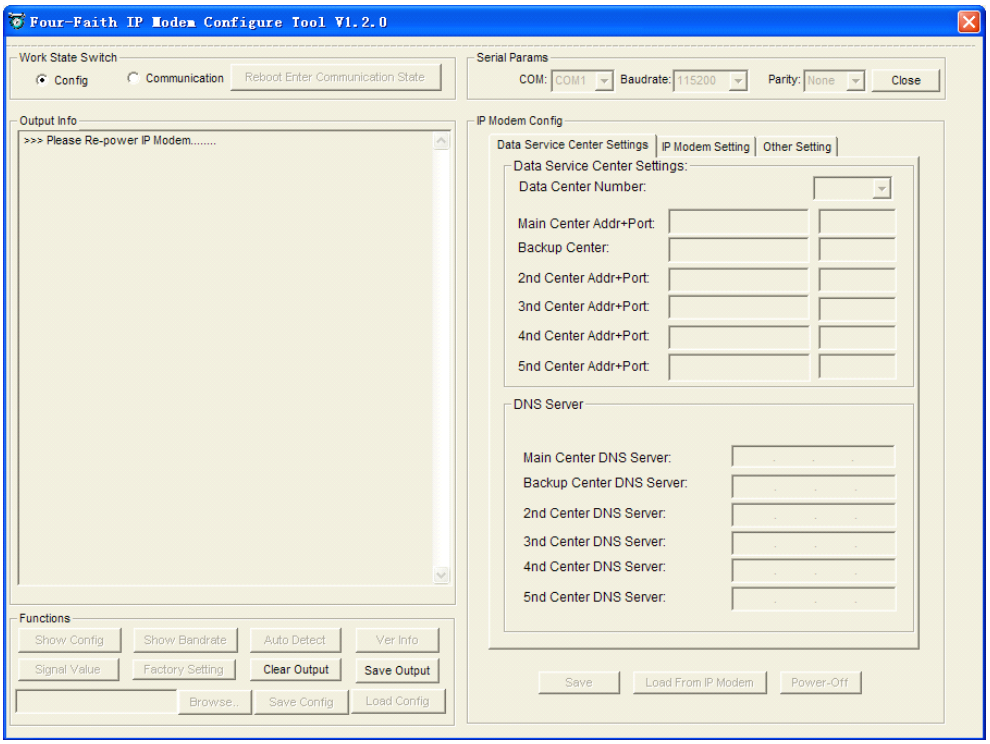
3.3 Run the configure Tool



The “Serial Parameters” column shows the current serial port settings. To configure IP MODEM, please choose the correct serial port which connects to IP MODEM, and the baud-rate is 115200 with no parity, then open the serial port. If the button text is “Close”, it shows the serial port now has been opened. If the text is “Open”, you should open the port first. When the port opened, the “Output Info” column will display

“Port(COM1) Has Opened，Please Re-Power the IP MODEM,

Waiting F7113Enter Configure State...”

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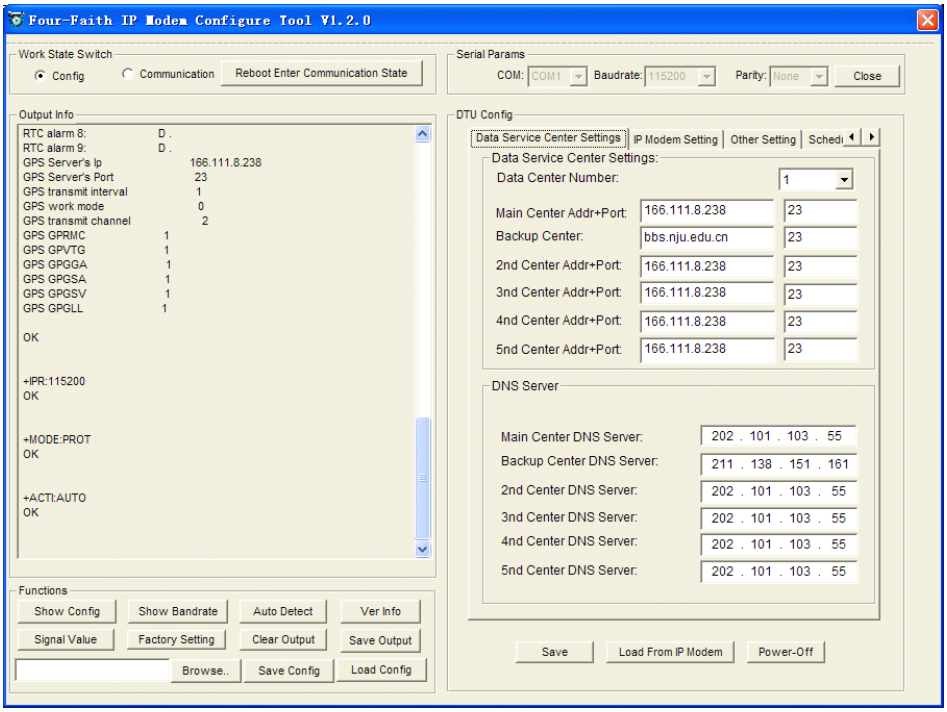
3.4 Re-power F7113



After Re-power IP MODEM, The configure tool will make it enter configure state. At the same time, the software will load current settings from F7113and displays on the right configure columns. It's now ready to configure.

3.5 configuration

3.5.1 Data Service Center Settings

Settings on this page are the parameters related to Data Service Center (DSC).

◆Data Center Number

F7113support two Data Service Center methods to transmit data.

Main and Backup: F7113always tries to connect with the Main DSC. If fails to connect with Main DSC, it will connect with Backup DSC at once

Note：If no Backup DSC exists, please configure the Backup DSC same as Main DSC.

Multi Data Service Center: F7113can connect with at most five DSC at the same time. All the multi DSC can receive the same application data .

If the Data Center Number is 0,there is no DSC working.

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If the Data Center Number is 1, F7113work in Main and Backup DSC method.

When "Data Center Number" is greater than 1, F7113works in Multi Data Service Center method

GPS data transmission DSC is self-governed. Setting details please reference the section 3.5.5.

AT command:

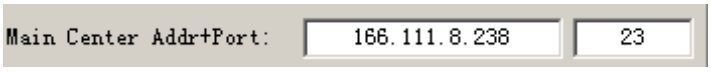
AT+SVRCNT=x

x: Data Service Center number

Note: every AT command is terminated with a enter character.

◆Main Center Addr+Port:

IP Address and Port of the Main DSC, It's better to set the port greater than 1024.



AT command of the Main DSC IP address or domain name:

AT+IPAD=xxx

xxx: The IP address or domain name.

AT command of the Main DSC port:

AT+PORT=xxx

xxx: The port value

◆Backup Center Addr+Port:

IP address and port of the Backup DSC

AT command of the Backup DSC IP address or domain

AT+IPSEC=xxx

xxx: The IP address or domain name

AT command of the Backup DSC port

AT+PTSEC=xxx

xxx: The port value

Multi DSC Configuration

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2nd Center Addr+Port:	166.111.8.238	23
3rd Center Addr+Port:	166.111.8.238	23
4th Center Addr+Port:	166.111.8.238	23
5th Center Addr+Port:	166.111.8.238	23

When "Data Center Number" is greater than 1, this setting is valid. For example，setting the "Data Center Number" as 3, Main Center, 2nd Center, 3rd Center work as these three DSC

AT Command of the 2~5 DSC IP address or domain name

AT+IPADn=xxx

n is 1~4 correspond to center 2~5

xxx: The IP address or domain name

AT Command of the 2~5 DSC port

AT+PORTn=xxx

n is 1~4 correspond to port of center 2~5

xxx: The port value

Example:

Set IP address of center 3 as 166.111.8.238, and port 5001, the AT command is as following:

AT+IPAD2=166.111.8.238

AT+PORT2=5001

◆ Main and Backup Center DNS Server

Main Center DNS Server:	202.101.103.55
Backup Center DNS Server:	211.138.151.161

When the DSC Internet access uses domain name, It's necessary to set DNS server resolving the DSC domain name. When the Data Center Number is 1, Main and Backup Center DNS Server is used to resolve the Main center and Backup center correspondingly.

AT command of Main Center DNS server:

AT+DNSSVR=aaa.bbb.ccc.ddd

aaa.bbb.ccc.ddd: The DNS server IP address(must be IP address）.

AT command of Backup Center DNS server:

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AT+DNSSV2=aaa.bbb.ccc.ddd
aaa.bbb.ccc.ddd: the DNS server IP address

◆ Center 2~5 DNS Server

2nd Center DNS Server:	202.101.103.55
3rd Center DNS Server:	202.101.103.55
4th Center DNS Server:	202.101.103.55
5th Center DNS Server:	202.101.103.55

When the F7113work in Multi Data Service Center method and the centers use domain name, 2~5 DNS server is used to resolve center 2~5 correspondingly.

AT command of 2~5 DNS Server
AT+DNSSVRn=aaa.bbb.ccc.ddd

n is 1~4 correspond to center 2~5 DNS server.
aaa.bbb.ccc.ddd is the DNS server IP address

3.5.2 F7113 Settings

◆ F7113WorkkMode

WorkMode:	PROT

According to different application requirements, there are several protocol workmode to choose.

PROT：Heartbeat packet with TCP protocol, Data transmission with TCP protocol, heartbeat packet and application data transmission are in the same TCP connection.

TRNS：F7113work as a common GPRS MODEM, It can be used in SMS, CSD, Dial-up applications.

TTRN：Heartbeat packet with UDP protocol, Data transmission with TCP protocol

TLNT：F7113work as a telnet client

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LONG：Heartbeat packet with UDP protocol, Data transmission with TCP protocol, It can transmit at most 8192 bytes data one time through extra application protocol.

LNGT：Heartbeat with UDP protocol, Data transmission with TCP protocol, It can transmit at most 8192 bytes data one time through extra application protocol.

TUDP：Heartbeat with UDP protocol, Data transmission with UDP protocol, Heartbeat packet and application data are in the same UDP connection.

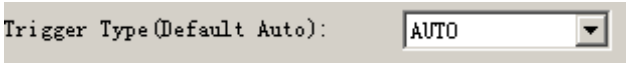
TCST：User can set custom register and heartbeat string, Data transmission with TCP protocol.

AT command:

AT+MODE=xxxx

xxxx: one of the above workmode

◆ Trigger Type



Normally, F7113always keeps online and always be ready for data transmission. But in some circumstances, it's important to reduce wireless data flow. To realize this function, the software can makes F7113into sleep state in idle time. When there is application data to transmit, F7113can be triggered online ready for data transmission. There are total five methods to make F7113online:

AUTO: F7113always keeps online
SMSD: send a special short message to make F7113online
CTRL: make F7113online through a phone call to IP MODEM
DATA: send special serial data to make F7113online
MIXD: the combination of SMSD, CTRL, DATA. F7113will be online when meet one of these three trigger methods.

AT Command:

AT+ACTI=xxxx

xxxx: one of the above trigger methods

◆ Debug Level

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Debug information is used to debug software when there is software problem.

0 --- no debug information output
1 --- simple prompt information output
2 --- detail debug information output

AT Command:

AT+DEBUG=x
x : the debug level value

Note: Only there is some problem to the IP MODEM, It's necessary to set this value as 2, In normal applications, this value should set to 0 or 1, the default value is 1.

◆ Databit, Parity, Stopbit

8N1 --- 8 Databit, No parity, 1 Stopbit
8E1 --- 8 Databit, Even parity, 1 Stopbit
8O1 --- 8 Databit, Odd parity, 1 Stopbit

AT Command:

AT+SERMODE=xxx
xxx: one of the above serial mode

◆ Communication Baudrate

110 --- 110 bps
300 --- 300 bps
600 --- 600 bps
1200 --- 1200 bps
2400 --- 2400 bps
4800 --- 4800 bps
9600 --- 9600 bps
14400 --- 14400 bps
19200 --- 19200 bps
38400 --- 38400 bps

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56000 --- 56000 bps
57600 --- 57600 bps
115200 --- 115200 bps

AT Command:
AT+IPR=xxx
xxx : one of the above baudrate

◆ Auto Back To Main Server

Auto Back To Main Server (1/0 - Yes/No) 0

0 --- No
1 ---Yes

This item is only valid when you set "Data Center Number" as 1. In this mode, F7113will switch to backup center when main center have problems. If this item is set to 1 , F7113will check whether the main center work fine timely. When it detects the main server work fine, it will return back to the main server at once.

AT Command:
AT+RETMAIN=x
x : 0 or 1

◆ Device ID

Device ID (8 Bytes Hex-Decimal Characters) : 74736574

The identity number of IP MODEM, the value should be 8 bytes hex-decimal characters.

AT Command:
AT+IDNT=aabbccdd

aabbccdd: the identity number of IP MODEM

◆ SIM Card No

SIM Card No (11 Bytes) 13912345678

The phone number of the SIM card .

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AT Command:

AT+PHON=xxxxxxxxxx
xxxxxxxxxxx: the SIM card phone number

◆ Bytes Interval

The time interval used to determine whether the serial data frame transmission has completed, F7113will send the serial data to the center when two bytes transmit time interval larger than this item value.

AT Command:
AT+BYTEINT=xxx

xxx: bytes interval time value（millisecond）

◆ Custom Register String

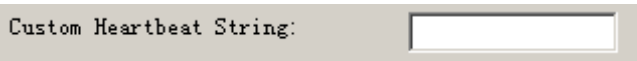
This item is only valid when the WorkMode is TCST. It's the self defined register string. It can be empty, the maximum length is 70 bytes.

AT Command:

AT+CONNRGST=xxx

xxx：self defined register string

◆ Custom Heartbeat String



This item is only valid when the WorkMode is TCST. It's the self defined heartbeat string, It can be empty, the maximum length is 70 bytes.

AT Command:

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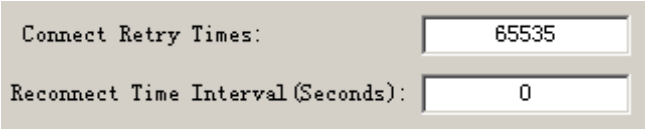
AT+LINKRGST=xxx

xxx：self defined heartbeat string

◆ Connect Retry Times, Reconnect Time Interval



In normal applications, F7113will always try to connect with the center even if the center has problems or closed. To reduce these unnecessary wireless data flow, you can configure the "Connect Retry Times" and "Reconnect Time Interval" items. When F7113fail to connect to the center with the configured Retry Time, It will sleep "Reconnect Time Interval" time, then start next retry.

"Connect Retry Times" AT Command:

AT+RETRY=xxx

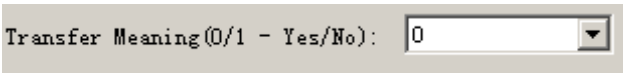
xxx：times try to connect to the center

"Reconnect Time Interval" AT Command:

AT+RDLWT=xxx

xxx: the sleep time until next retry.

◆ Transfer meanning



0 --- Yes, enable transfer meaning

1 --- No, disable transfer meaning

This item is only valid when the WorkMode is PROT. If this item is set to 0, F7113will transfer meaning to 0xfd and 0xfe. To know detail transfer meaning method, please refer <<F7113Transfer Meaning Explanation In the PROT work mode>>. If this item is set to 1, all the transmission is transparent.

AT Command:

AT+STRAIGHT=x

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x：0 or 1

3.5.3 Other Settings

◆ Network

APN: access point name.
Username: username to login the ISP network.
Password: password to login the ISP network
Call Center: the call center phone number

Model	APN	Username and password	Call center
F7113	Cmnet	null	*99***1#

AT Command of APN:

AT+APN=xxxx

xxxx: access point name

AT Command of Username:

AT+USERNAME=xxx

xxx： username

AT Command of Password:

AT+PASSWORD=xxx

xxx： password

AT Command of Call Center:

AT+CENT=xxx

xxx: call center phone number of ISP

◆ SMS Center

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SMS Center (+86) +8613800592500

Your local SMS center number

AT Command:
AT+SMSC=xxx
xxx: your local SMS center number

◆ Heartbeat Interval

Heartbeat Interval (31 ~ 65534): 60

Time interval sent heartbeat packet. (unit is second)

AT Command:
AT+POLLTIME=xxx
xxx: heartbeat packet time interval

◆ Call Trigger Phone No

Call Trigger Phone No:

This item is only valid when the "Trigger Type" is CTRL or MIXD. In this trigger type, F7113will keeps in idle state until it receives the trigger phone call, then it will connect to the center.

AT Command:
AT+CTRLNO=xxx
xxx : trigger phone number

◆ SMS Trigger Password

SMS Trigger Password(4 Bytes):

This item is valid only when the "Trigger Type" is SMSD or MIXD, F7113will keeps in idle state until it receives the trigger short message, Then it will connect to the center.

AT Command:

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AT+SMSDPSWD=xxx

xxx : SMS content to trigger F7113online

◆ Data Trigger Password

Data Trigger On Password:	don
Data Trigger Off Password:	doff

This item is valid only when the "Trigger Type" is DATA or MIXD, F7113will keeps in idle state until it receives the trigger on data, then it will connect to the center, It will return to the idle state when receives trigger off data.

AT Command of Data Trigger On Password:

AT+DONPSWD=xxx

xxx : data trigger on password

AT Command of data trigger off password:

AT+DOFFPSWD=xxx

xxx :data trigger off password

◆ TCP MTU

TCP MTU(Bytes):	1450

The maximum transmission unit of TCP packet

AT Command:

AT+TCPMTU=xxx

xxx : the MTU value

◆ Multi Center Reconnect Interval

Multi Center Reconnect Interval:	90

This item is valid only when the "Data Center Number" is greater than 1.
When one of the configured data center lost connection, F7113will try to reconnect after the configured reconnect interval

AT Command:

AT+MCONTIME=xxx

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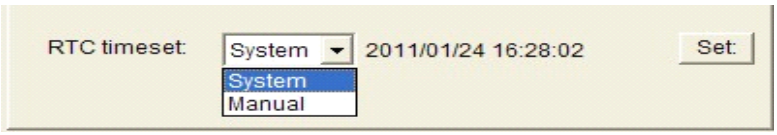
xxx : reconnect time interval (unit is second)

3.5.4 Scheduled Power ON/OFF Setting

◆ RTC(Real Time Clock) Time Setting



Click “ Set: ” to ensure the setting

AT Command:

AT+EXCCLK="yyyy/mm/dd,HH:MM:SS",W

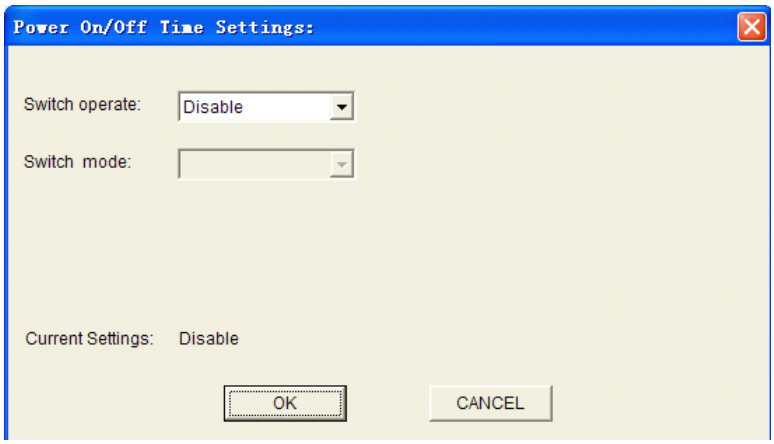
For example:

If the current time is at 12:30 on September 1st,2010, Wednesday, the corresponding at command:

AT+EXCCLK="2010/09/01,12:30:00",3

◆ Power On/Off Setting

Press “Set” you will see the follow window, you can do the setting.



AT Command:

AT+EXCALx=<options>[, <value1>[,<value2>[,<value3>]]]

Options:

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D -- Disabled. Scheduled Power On/Off function is disabled (Default).

O – On. Set the F7113power on time.

S – Shut Down. Set the F7113power off time.

Setting type, [IP] use for power on, C use for power off

T -- Time. Set the action time point.

H -- per Hour. Set a time point of every hour

D -- per Day. Set a time point of every day

W -- per Week. Set a time point of every week

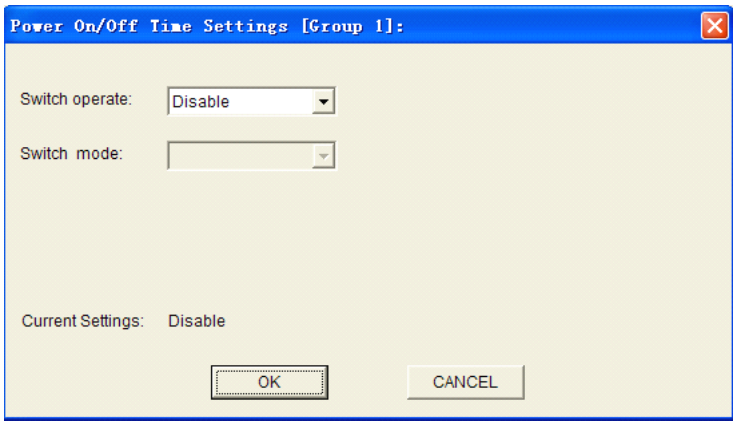
M -- per Month. Set a time point of every month

I -- Interval. Set the time interval.

P -- Power always on.

C -- Count down. Set the count down length.

1. Disable



AT Command:

AT+EXCALx=D

Note: There is no blank in this AT command, the same as followings.

2. On-time switch power on

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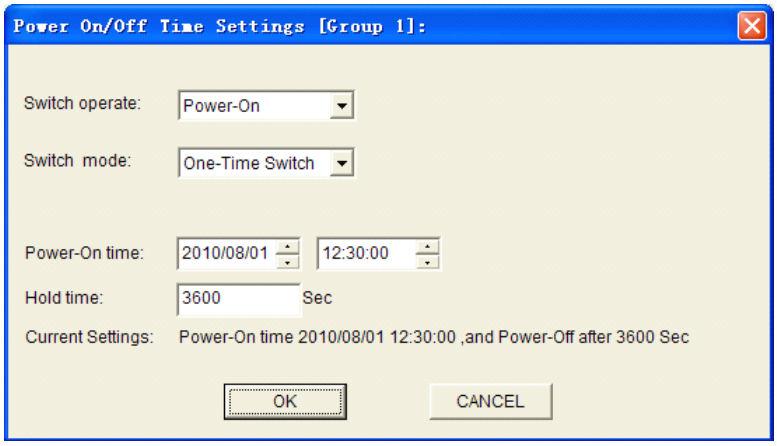


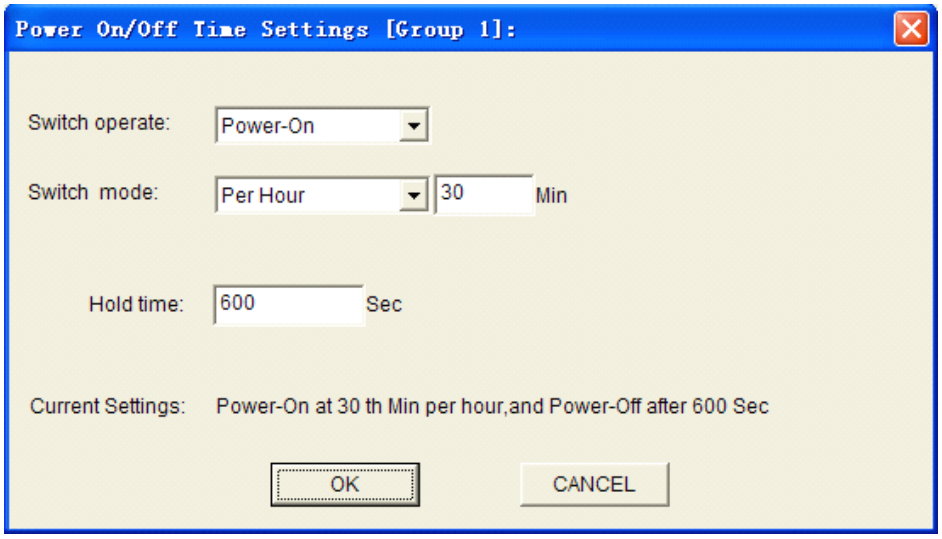
AT Command

AT+EXCALx=OT,<strLongTime>,<holdTime>
<strLongTime>: Format "2010/08/01,12:30:00"
<holdTime>: Hold time value.(Unit:Second)

For example:
F7113 power on at 12:30:00, and power off at 13:30:00 on August 1st,2010

AT+EXCAL5=OT,"2010/08/01,12:30:00",3600

3. Power on per hour



AT Command:

AT+EXCALx=OH,<strTime>,<holdTime>
<strTime>: Format "00:30:00"
<holdTime>: Hold time value.(Unit:Second)

For example:

Add： J1-J3,3rdFloor,No.44,GuanRiRoad,SoftWare Park,XiaMen .361008.China
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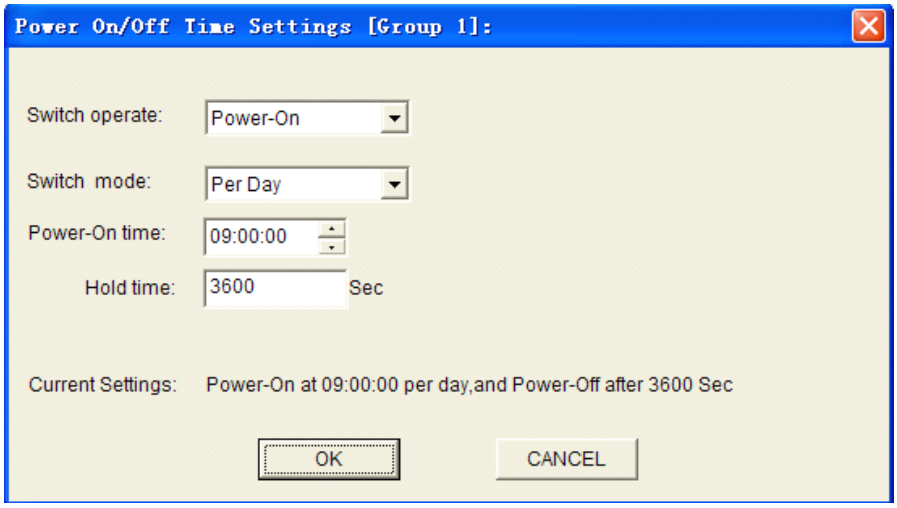
F7113power on at the 30th minute in every hour, and power off 10 minutes later.

AT+EXCAL1=OH,"00:30:00",600

4.Power on per day



AT Command:

AT+EXCALx=OD,<strTime>,<holdTime>
<strTime>: Format "12:30:00"
<holdTime>: Hold on value(Unit:Second)

F7113power-On at 09:00:00 everyday, and power-off 1 hour later.

AT+EXCAL3=OD,"09:00:00",3600

5.Power on per week

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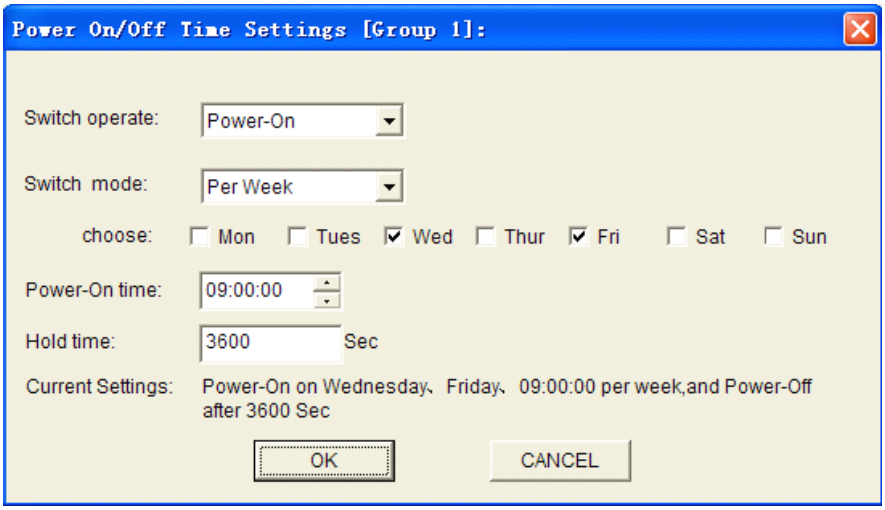


AT Command:

AT+EXCALx=OW,<week>,<strTime>,<holdTime>

<week>: 0123456 replace to Sunday, Monday, Tuesday, Wednesday, Thursday, Friday and Sunday ordinal.

<strTime>: Format "12:30:00"

<holdTime>: Hold time value(Unit:Second)

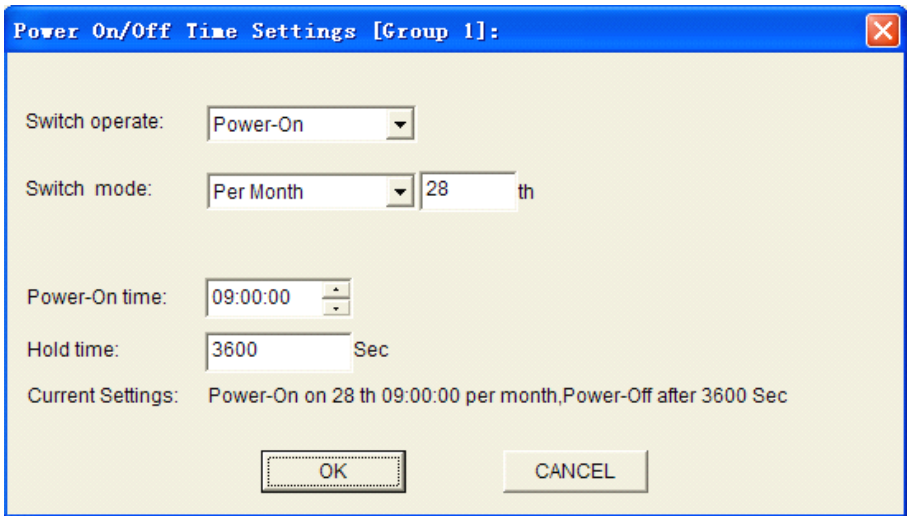
For example:

F7113power on at 09:00:00 on every Wednesday and Friday, and power off 1 hour later.

AT+EXCAL1=OW,35,"09:00:00",3600

The “35” replace to Wednesday and Friday.

6.Power on per month



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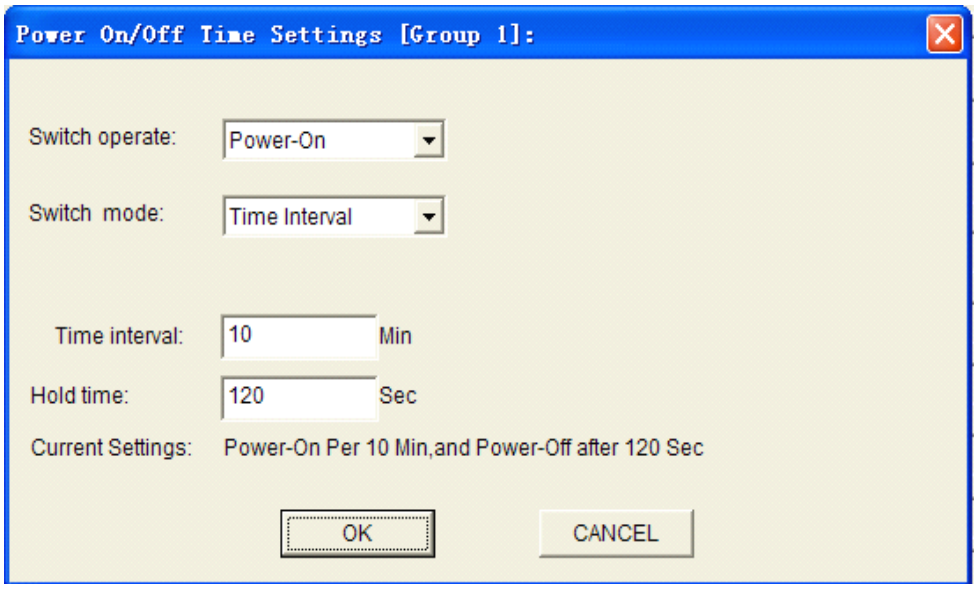
AT Command:

AT+EXCALx=OM,<date>,<strTime>,<holdTime>
<date>: 0-31
<strTime>: Format "12:30:00"
<holdTime>: Hold time value(Unit:Second)

For example:
F7113power on at 09:00:00 on the 28th every month,and power off 1 hour later.

AT+EXCAL3=OM,28,"09:00:00",3600

7.Power on with time interval



AT Command:

AT+EXCALx=OP,<intervalTime>,<holdTime>
<intervalTime>: interval time value(Unit:Minute)
<holdTime>: Hold time value(Unit:Second)

For example:
F7113power on interval every 10 minutes, and power off 120 seconds later.

AT+EXCAL1=OP,10,120

8.F7113 online/offline with time interval

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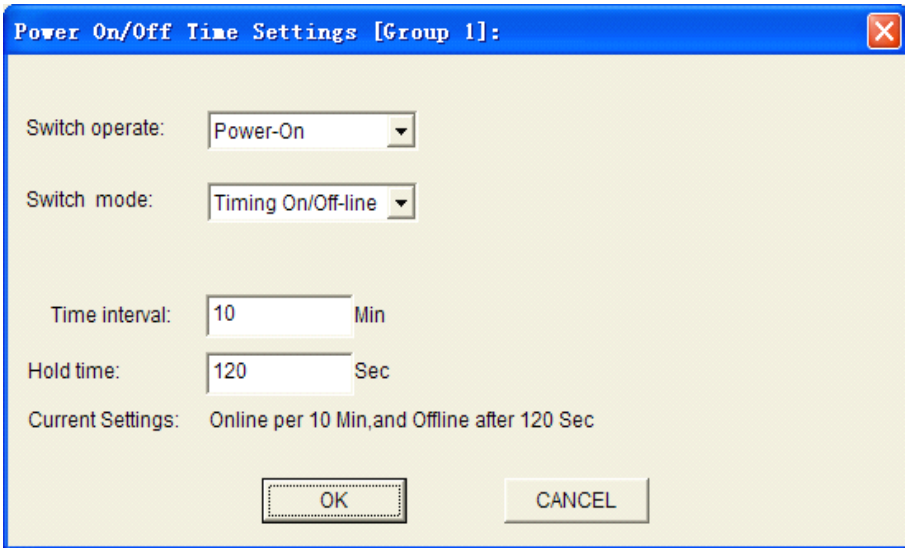


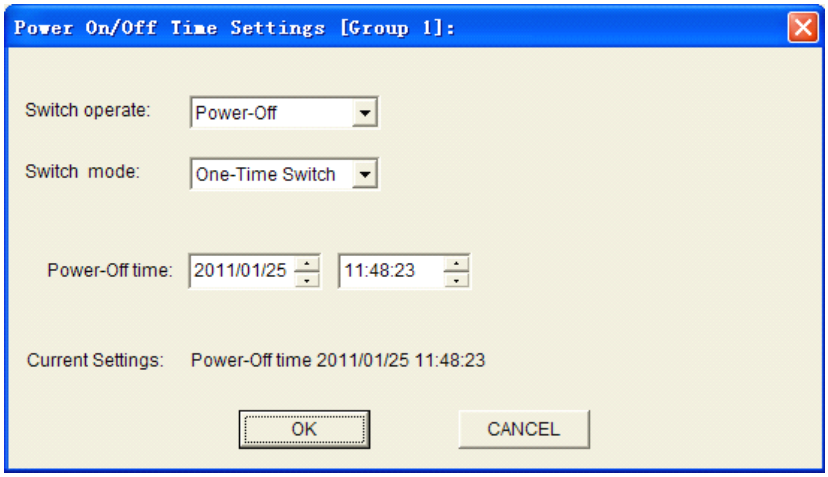
AT Command:

AT+EXCALx=OP,<intervalTime>,<holdTime>
<intervalTime>: interval time value(Unit:Minute)
<holdTime>: Hold time value(Unit:Second)

For example:
F7113online interval every 10 minute, and offline 120 seconds later.
AT+EXCAL1=OP,10,120

Note: F7113not power off in this mode, it is standby.

9.Power off at one time



AT Command:

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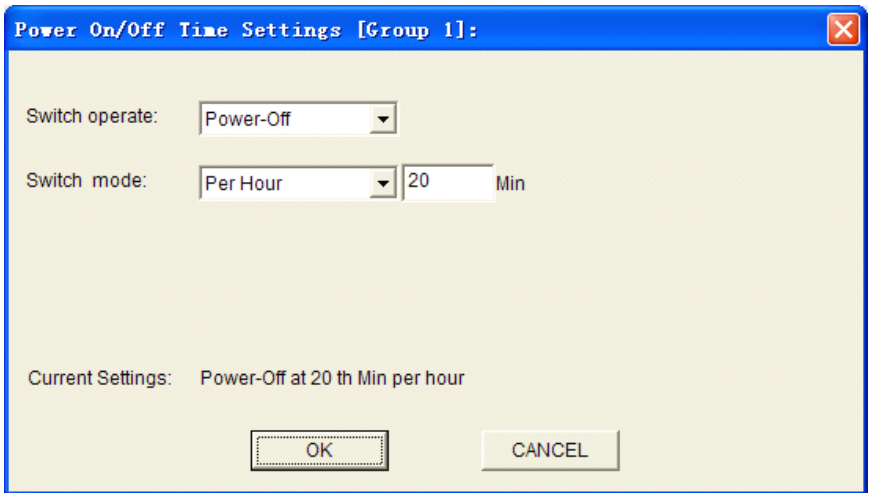
AT+EXCALx=ST,<strTime>

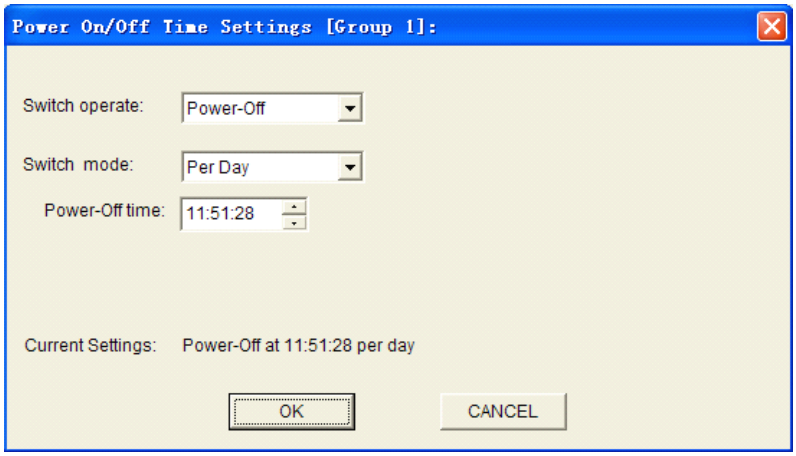
10.Power off per hour



AT Command:

AT+EXCALx=SH,<strTime>

11.Power off per day



AT Command:

AT+EXCALx=SD,<strTime>

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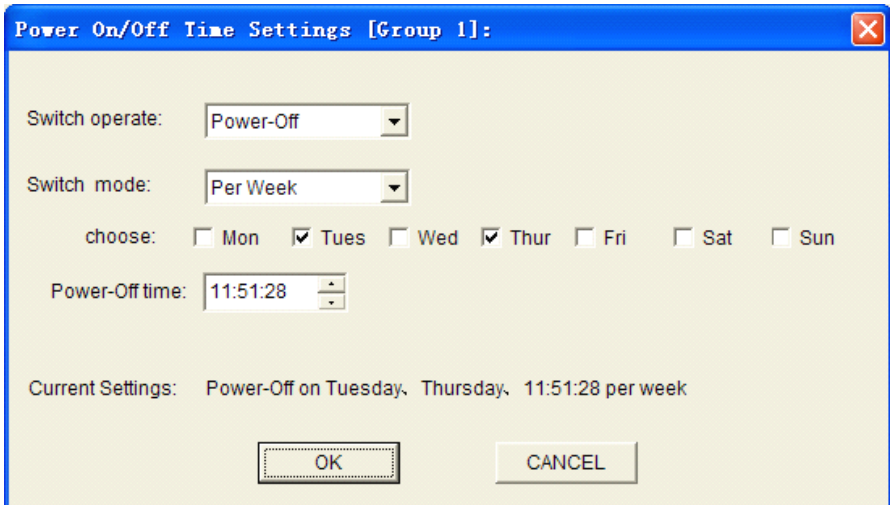
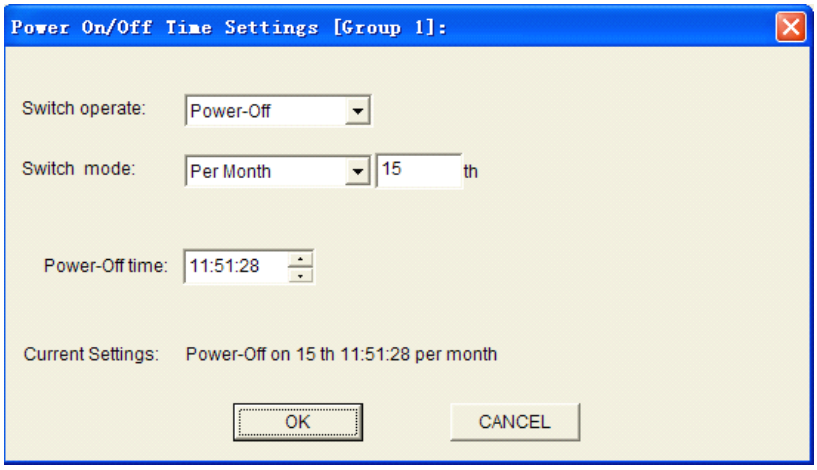
12.Power off at the same time in every week



AT Command:

AT+EXCALx=SW,<week>,<strTime>

13.Power off per month



AT Command:

AT+EXCALx=SM,<date>,<strTime>

14.Power off with countdown

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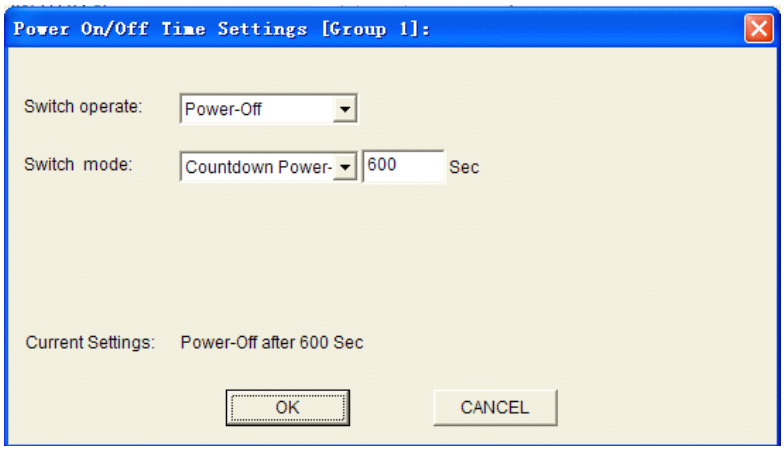

AT Command:

AT+EXCALx=SC,<afterTime>
<afterTime>: Countdown value(Unit:Second)

For example:
F7113power off 600 seconds later:

AT+EXCAL1=SC,60

Note: If the <aftertime> is 0,the F7113will power off immediately.

3.6 GPS Operation Items

3.6.1 the ID of the device

◆ Set the ID of the device

The device ID must be six digit.it will be send to the net when send a GPRS information.

AT command is:

AT+TERNO=xxxxxx,the id value is between 1 to 9， and the length is six,the over length is setting by system to 0xf

3.6.2 a switch to open or close the alarm of the car door

◆ open or close the alarm of the car door

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The door alarm switch | close

AT Command:

AT+DOOROPEN=x

X: 0-Close the alarm, 1-Open the alarm

3.6.3 the limit of electric voltage

◆ the limit of electric voltage

Voltage limit(3.2~12V) | 3.2

The voltage limit is used to confirm when the voltage is low by the preset value,a GPRS alarm will be send to net.

AT Command:

AT+VTLIT=x

If x is setted by 3.2,the limit of the electric voltage is 3.2V.The min value is 3.2,and the max value can be 12.0,if the value is 0,the alarm will be closed.

3.6.4 the limit of the lithium cell voltage

◆ the limit of the lithium cell voltage

Lithium battery voltage(3.2~4V) | 3.2

The voltage limit is used to confirm when the cell's voltage is low by the preset value,a GPRS alarm will be send to net.

AT Command:

AT+VTLLIT=x

If x is setted by 3.2,the limit of the electric voltage is 3.2V.The min value is 3.2,and the max value can be 4.0,if the value is 0,the alarm will be closed.

3.6.5 the track interval by GPS in electric voltage

◆ set the track interval by GPS int electric voltage

GPS upload interval | 10

The DTU will send a location message to the net by the interval.

AT Command:

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AT+FREQ=x, x is the interval,the min value is 5,the max value is 3600

The unit of x is second. If setting x to 5,the interval is 5 second

3.6.6 the track interval by GPS in lithium cell voltage

◆ set the track interval by GPS int lithium cell voltage

Lithium battery powered upload interval	30

The DTU will send a location message to the net by the interval when DTU using the cell.

AT Command:

AT+LIFREQ=xx is the interval,the min value is 30,the max value is 65535

The unit of x is second. If setting x to 30,the interval is 30 second

3.6.7 pow down time

◆ set the pow down time

Spare network into the dormant waiting	480

When the DTU is freed over the preset time,the DTU will be setted into the dormant waiting.

AT Command:

AT+POWTIME=x

The unit of x is minute. If setting x to 1,the interval is 1 minute

3.6.8 a switch to open or close the track by SMS

◆ open or close the track by SMS

Message real tracking	close

When the function is open,the DTU will send a SMS location information to the mobile phone by a SMS interval.

AT Command:

AT+MONST=x

x:0-close，1-open

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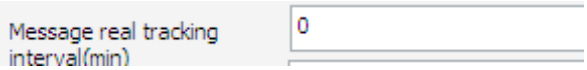
3.6.9 the interval of the track by SMS

◆ Set the interval of the track by SMS



When SMS track fun is open,the DTU will send a SMS location information to the mobile phone by the interval.

AT Command:

AT+PFREQ=x

The unit of x is minute. If setting x to 1,the interval is 1 minute

3.6.10 the SMS number by track

◆ set the SMS number by track

The mobile phone to received the SMS location information.

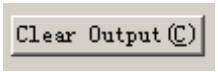
AT Command:

AT+WIREPHONE=x

X can be setted by any character

3.7 Functions

◆ Clear Output

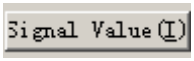


Clear the output information

◆ Version Display

Show the software and hardware version

◆ Signal Value



Display current wireless signal value

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◆ Factory setting

Restore to factory settings

◆ Show Config

Show current F7113settings

◆ Show Baudrate

Display the communication baudrate

◆ Auto Detect

Simple way to determine whether F7113work fine

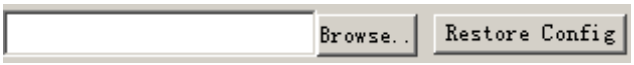
◆ Save Output

Save the output info to a file

◆ Save Config

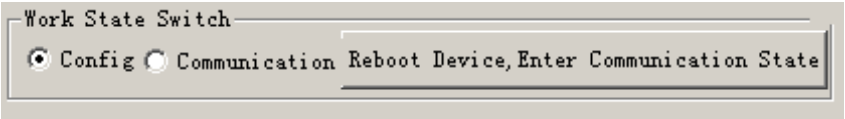
Save the current settings to a file, you can restore it from this file later

◆ Restore Config



Restore settings from a previous saved configure file

3.8 Work State Switch



This tool can work in two states, “Config” and “Communication”

Config:

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This state is used to configure parameters of IP MODEM.

Communication:

This state is used as a common serial communication tool

Reboot Device, Enter Communication State:

This function button is used to reboot F7113and make the software switch to Communication state

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CHAPTER IV SMS Configuration

4.1 Change SMS password

Command: W******,001,######

Description: change the password of DTU by SMS.

Note:

****** is user' s password and the default password is 000000.The tracker will only accept commands from a user with the correct password.Commands with wrong password will be ignored.

is the new password.Password should be 6 digits.

For example:

W000000,001,123456

Reply:Set Password OK/123456

4.2 Track

4.2.1 Track by SMS

-Track on Demand - Reply with longitude, latitude, speed and date

Command: W******,000

Description:Get the current location of the tracker, send this SMS or make a telephone call directly to the tracker and it will report its longitude and latitude by SMS with format as follows:-

Latitude = 22 32 36.63N Longitude = 114 04 57.37E, Speed = 2.6854Km/h, 2008-12-24,01:50

For example:

W000000,000

4.2.2 Track on Demand

- Reply with a Google link

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Command: W******,100

Description: Send this command to the tracker and then you receive an SMS with an http link. Click on the link then the location can be shown directly on Google Map on your mobile phone. For example:

http://maps.google.com/maps?f=q&hl=en&q=22.543908,114.088564&ie=UTF8&z=16&iwloc=addr&om=1

Note: Only smart phones and PDA support this function.

For example:

W000000,100

4.2.3 Track by Preset Interval

Command: W******,002,XXX

Description: Sets an interval for the tracker to continuously return its location by SMS

Note:

1. XXX is the interval in minute.

2. If XXX=000 to turn off tracking by time.Reply:Stop Time OK

3. If preset interval is to short,the net will not receive any alarm or track information.

For example:

W000000,002,030

Reply:Set Time OK/030

The tracker will send location data back to your mobile phone every 30 minutes.

4.3 Normal Configure

4.3.1 Set Tracker ID

Command: W******,010,ID

Description: Send this command to set an ID for the tracker. Tracker ID must not over 6 digits.

For example:

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W000000,010,12345678

Reply:Set SIM OK/12345678

4.3.2 Set APN

Command: W******,011,APN,Username,Password

Description: Sets APN details for the tracker

Note:

APN defaulted as CMNET. Please contact your SIM card provider for your APN name.

If no username and password required, just leave them blank.

For example:

W000000,011,CMNET,Myname,6688 [with APN user name and password]

W000000,011,CMNET [without APN user name and password]

Reply:SET APN OK/CMNET

4.3.3 Set IP and Port

Command: W******,012,IP,Port

Description: Sets IP and Port for tracker for GPRS communication.

Note:

For example:

W000000,012,120.42.46.98,3333

Reply :Set IP OK/120.42.46.98#3333

4.3.4 Enable GPRS Track

Command: W******,013,X

Description: Enables GPRS tracking function.

Note:

X=0, turn off GPRS tracking (default);

X=1, to enable GPRS tracking via TCP

X=2, to enable GPRS tracking via UDP(there is no this fun)

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For example:

W000000,013,1

Reply:Open TCP OK

4.3.5 Set GPRS Track Interval

Command: W******,014,XXXXX

Description:Sets time interval for sending GPRS packets.

Note:

XXXXX should be in five digits and in unit of 1 second.

XXXXX=00005~03600,time interval for sending GPRS packet and in unit of 1 second.

For example: W000000,014,00006

In this example, the tracker will send every 60 seconds.

Reply:Set GPRS Timer OK(MOVE Mode)/00006

4.3.6 Authorization（Have a choice）

Command: W******,003,F,P,T

Description: Authorizes phone numbers for the SOS button (or inputs) for receiving location reports and SMS alarms.

Note:

F=0, to turn off this function; (default)

F=1, Sends SMS to the authorized phone number;

P=1, set an authorized number for SOS button (Input 1)

P=2, set an authorized number for Input 2

P=3, set an authorized number for Input 3

T: Preset phone number. Max.16 digits

For example:

W000000,003,1,1,15912345678

Reply:Set Tel OK/1,1,15912345678

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4.3.7 Low Power

Command: W******,004,X

Description: When the tracker' s voltage is lower than the preset value, it will send an GPRS alarm to the net.

Note: X is the preset value of voltage.

X=3.2~12.0, X is between 3.2 to 12.0,the unit is V.

For example: W000000,004,2

Reply:Set Voltage Limit OK/

4.3.8 Low power of cell

Command: W******,104,X

Description: When the cell' s voltage is lower than the preset value, it will send a GPRS alarm to the net

Note: X is the preset value of voltage.

X=3.2~4.0, X is between 3.2 to 4.0,the unit is V.

For example: W000000,104,2

Reply:Set Cell Voltage Limit OK/

4.3.9 Over Speed Set

Command: W******,005,XX

Description: Turns on over speed alarm. When the tracker speeds higher than the preset value, it will send a GPRS alarm to the net.

Note: XX is the preset value of speed and in 2 digits.

=00 , to turn off this function(default)

=[01, 20] (unit: 10Km/h)

For example: W000000,005,08

Reply:Set Speed Limit OK/08

When the tracker' s speed is over 80km/h, an GPRS alarm will be sent out.

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4.3.10 Movement Alarm Set

Command: W******,006,XX

Description: When the tracker moves out of a preset circular scope, it will send a GPRS alarm to the net.

Note: XXis the preset radius.

=00, to turn off this function (default)

=01, 30m =02, 50m =03, 100m =04, 200m

=05, 300m =06, 500m =07, 1000m =08, 2000m

For example: W000000,006,06

Reply:Set Radii Limit OK/6/

4.3.11 Output Control

◆ Output Control (Immediate)(have a choice)

Command: W******,020,P,F

Description: Sends this command to control the Output of pin.

Note:

P =1, Output1 P =2, Output2 P =3, Output3 P =4, Output4 P =5, Output5

F=0, to close the output(default)

F=1, to open the output

For example: W000000,020,1,1

Reply:Set Output OK/1,1

For example: W000000,020,4,1

Reply:Set Output OK/4,1

◆ Output Control (Conditional)(have a choice)

Command: W******,120,ABC

Description: Sends this command to control the Output of AVT310. This command is only workable when the speed is below 10km/h and meantime GPS is available.

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Note:

ABC represents Output1, Output2, Output3 respectively.

If A or B or C

=0, to close the output (default)

=1, to open the output

For example:

W000000,120,111

Reply:Set Speed Output OK/111

When the speed is below 10km/h and meantime GPS is available,output1,2,3 open.when the speed is more than 10km/h and meantime GPS is available,output1,2,3 close.

4.3.12 Enable SMS Track

Command: W******,210,T

Description: Enable the tracker send a SMS location to the phone.

Note:

1. T =0,to close the function(default).

2. T =1,to open the function.

For example:

W000000,210,1

Reply:MONITOR/=ON

4.3.13 Password Initialization

Command: W888888,999,666

Description: This is to make the password back to factory default in case you forget your password.

For example: W888888,999,666

Reply:Set Password OK/000000

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4.3.14 Set Prefix (Country Code)

Command: W******,502,*Data# W000000,502,*+86#

Remarks: be advised caution in this setting. Normally, your country code (for example in China it is +86) will be automatically added and displayed prior to

a phone number when sending SMS. In this case, you don’t have to do this setting. If the country code is not added, you are required to input the country

code, for example, +86, to enable the tracker can send out SMS to your mobile phone.

Data: max 10 digits

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