J16 4G LTE/ 2G GSM/GPRS/GPS
Product Manual

Product name: GPS Tracker
Brand: THINGSYS
Model number: J16
File version: V1.0
Version date: 2022.12.01

Version	Update content	Revised by	Revision time
V1.0	Function description, specifications and parameters	QI ZICHAO	2022.10.01
V1.1	Specifications and parameters	QI ZICHAO	2022.12.01

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1. Product basic introduction

1.1 Product introduction

J16 is a standard/multifunctional 4G vehicle positioning terminal carefully built for the Internet of Vehicles. It integrates both 4G and 2G wireless communication technology and GPS /BDS satellite navigation and positioning technology. The terminal adopts an industrial-grade highly integrated fully built-in antenna design, and the device has built-in 3-axis sensors. Intelligent power-saving wake-up function. It has functions such as DC detection, ACC detection, power outage alarm, overspeed alarm, mileage statistics, remote voice pickup, SOS emergency help, remote fuel and electricity cutoff, etc. Paired with the global positioning service platform, it can realize real-time acquisition of vehicle data, tracking and positioning functions.

1.2 Application areas

Insurance industry, corporate fleet industry, automobile manufacturers /4S stores, individual users, electric and new energy fields , passenger vehicles, taxis, rental vehicles, etc.

1.3 Product pictures

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1.4 Product usage introduction

1.4.1 SIM card installation method

The device uses a Nano SIM card. The card slot is a flip-up card slot. Put the SIM card in according to the shape of the card slot. Note that the card notch corresponds to the card slot and the chip faces the elastic surface of the card slot. After installing the card, lock the card slot.

1.4.2 Indicator light description

Red light- power indicator light

light status	meaning
Always on	at work
not bright	Shut down

Yellow light-GSM indicator light

light status	meaning
Flash once in 2 seconds	GSM initialization
Always on	GSM communication is normal
not bright	GSM sleep /shutdown

Blue light-GPS indicator light

light status	meaning
Flash once in 2 seconds	Searching for satellite signal
Always on	GPS/BDS positioned
not bright	GPS /BDS sleep

1.4.3 Working logic

After the equipment is installed, the equipment enters normal working status after the yellow and blue lights are on.
Static flameout state: ACC is off, and the device generates one data every 5 minutes.
Sport ignition status: ACC is on, the device generates one piece of data every 20 seconds.

Power failure alarm: After the device is connected to the power supply, the device will determine whether it is connected to the power supply. When the device is disconnected from the power supply 3 seconds later, the device will Trigger a power outage alarm and upload it to the server.

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SOS distress alarm: The device has an external SOS button. Press and hold the button for 3 seconds to trigger the alarm. After the alarm is triggered, the device will
Send an emergency alert to the server. If the device is set with an SOS family number, the device will
A distress text message will be sent to the main control number and the set family number will be called.

Overspeed alarm: Set the overspeed alarm threshold. When the equipment speed exceeds the set value, the equipment triggers an overspeed alarm and upload to the server.

2 Features

- Multiple alarm functions such as power outage alarm, overspeed alarm, vibration alarm, low voltage alarm, etc.;
- Supports the function of cutting off the oil/circuit of the monitored object, and realizes functions such as cutting off oil and electricity ;
- Supports the electronic fence function. Users can define a virtual electronic fence through the platform/APP. When the device enters or exits the fence, it can be recognized by the platform and issue an alarm ;
- When an alarm occurs, an alarm text message/call can be sent to the monitoring number, and the alarm is uploaded to the platform at the same time ;
- The terminal adopts an industrial-grade high-stability GPRS module from a well-known manufacturer, has a built-in GSM high-sensitivity antenna, supports TCP/IP data transmission, and supports domain name/IP address to connect to the server;
- Built-in large-capacity memory chip supports offline data storage and supplementary transmission of blind spot data **;** when the vehicle is in a place with weak wireless signal or severe interference, the vehicle will temporarily store vehicle operating data in FLASH. When the wireless signal returns to normal, , can supplementally transmit these data, so that no data is missed. ;

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- Built-in 3-axis acceleration sensor, integrated with accurate acceleration algorithm, can obtain the current attitude of the vehicle and other vehicle conditions in real time;
- High-sensitivity GPS/BDS dual-star positioning module and anti-interference ceramic antenna achieve more stable star search signals and support AGPS fast positioning tracking and synchronous timing;
- In sleep mode, it supports battery low-voltage monitoring alarms, abnormal vibration alarms, and other automatic reporting messages when the vehicle starts, stalls, and sleeps;
- Support online remote upgrade and remote configuration of product parameters.
- The low-power energy-saving mode can accurately determine the car's ignition and shutdown status, and the intelligent sleep and wake-up mechanism can reduce the average power consumption of the entire system;
- Anti-jammer design/function.
- Wide voltage range from 9 to 90 voltage as it can be used in all types of vehicles, cars, buses, motorcycles, trucks, e-bikes, e-cars .etc.
- GT06 protocol by default, JT808 protocol, Tianhe protocol, TQ protocol, Tianqin protocol, Hy protocol for option or even your own private protocol.
- Can be configured by PC software, SMS, platforms and in production line.
- Customization in Branding, firmware and case is available.

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3 Product parameters

3.1 Hardware specifications

	function name	have	none	Project function description	
Electrical characteristics	Power supply	●		Battery powered	
	Working voltage range	●		DC 9V - 95V _	
	Working current	●		12V/ average 35mA	
	Sleep current	●		12V/ average 10mA	
	Built-in battery capacity	●		150mAh (3.7V polymer battery) optional	
Environmental characteristics	range of working temperature	●		-20 ℃ -75 ℃ _	
	Storage temperature range	●		-30℃-80℃	
	Working humidity range	●		10 % -85 % RH Does not condense	
Communication characteristics	Communication module brand/chip model	●		SIMCOM A7670SA	
	Communication band	●		LTE/4G	LTE -FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66
				GSM /2G	850/900/1800/1900MHz
	SIM card	●		Nano SIM card	
	communication antenna	●		Built-in antenna	
	Antenna specifications	●		FPC antenna	
GPS/BD positioning features	Locate module brand/chip model	●		Zhongke Micro AT6558R	
	Targeting _	●		Beidou +GPS	
	cold start time	●		average 32 seconds	
	Hot start time	●		average 1 second	
	Tracking sensitivity	●		-162 dBm	
	positioning antenna	●		Built-in ceramic dielectric antenna	
	Antenna specifications	●		18mm*18mm*4mm	
	GPS band	●		L1: 1575.42±1.023MHz	
	Beidou frequency band	●		B1: 1561.098±2.046MHz	
	Number of satellite channels	●		32	
	positioning accuracy	●		<10m（1σ）	
	Timing accuracy	●		<30ns (1σ)	

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	Speed measurement accuracy	•		<0.1m/s（1σ）
	maximum acceleration	•		4G
	Maximum speed	•		515m/s
	maximum height	•		18000m
External interface	ACC detection input	•		All the way ACC detection line
	Cut off oil and electricity	•		Low output all the way (relay control line)
	SOS (optional)	•		Low detection line (SOS alarm line)
	Door sensor (optional)	•		Low detection all the way
	Microphone (optional)	•		Can be connected to an external microphone
Form factor	Host size (length, width and height)	•		80mm*39mm*17mm
	shell material	•		ABS plastic
	Host weight	•		50g _

3.2 Main chip

SIMCOM 7670SA, manufactured by SIMCOM Wireless Solutions Co., Ltd, with more details available from: www.simcom.com

The IMEIs of our GPS trackers are original from SIMCOM module as it shows above.

Wireless communication standard(s), range(s) of operating frequencies and maximum transmission power(s) for each range of operating frequencies. (VBAT=3.8V)

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GSM sleep mode/idle	
GSM/GPRS	Sleep mode@BS_PA_MFRMS=2 Typical value：2.5mA
(without USB connected)	Idle @BS_PA_MFRMS=2 Typical value：21mA
LTE sleep mode/idle	
CFUN=0, CSCLK=1	<2mA
LTE supply current	Sleep mode @DRX=0.32S Typical value：2.5mA
(without USB connected)	Idle @DRX=0.32S Typical value：21mA
GSM on call	
GSM850	@Power level#5 Typical value：220mA
EGSM900	@Power level#5 Typical value：239mA
DCS1800	@Power level#0 Typical value：151mA
PCS1900	@Power level#0 Typical value：136mA
GPRS data transmission	
GSM850(1 Receiving,4 Sending)	@Power level #5 Typical value：479mA
EGSM900(1 Receiving,4 Sending)	@Power level #5 Typical value：500mA
DCS1800(1 Receiving,4 Sending)	@Power level #0 Typical value：306mA
PCS1900(1 Receiving,4 Sending)	@Power level #0 Typical value：300mA
GSM850(3 Receiving, 2 Sending)	@Power level #5 Typical value：378mA
EGSM900(3 Receiving, 2 Sending)	@Power level #5 Typical value：418mA
DCS1800(3 Receiving, 2 Sending)	@Power level #0 Typical value：253mA
PCS1900(3 Receiving, 2 Sending)	@Power level #0 Typical value：228mA
EDGE data transmission	
GSM850(1 Receiving,4 Sending)	@Power level #8 Typical value：279mA
EGSM900(1 Receiving,4 Sending)	@Power level #8 Typical value：286mA
DCS1800(1 Receiving,4 Sending)	@Power level #2 Typical value：263mA
PCS1900(1 Receiving,4 Sending)	@Power level #2 Typical value：266mA
GSM850(3 Receiving, 2 Sending)	@Power level #8 Typical value：203mA
EGSM900(3 Receiving, 2 Sending)	@Power level #8 Typical value：227mA
DCS1800(3 Receiving, 2 Sending)	@Power level #2 Typical value：175mA
PCS1900(3 Receiving, 2 Sending)	@Power level #2 Typical value：176mA
LTE data transmission	
LTE-FDD B1	@5MHz 23.0dBm Typical value：560mA @10MHz 23.0dBm Typical value：549mA
LTE-FDD B2	@5MHz 23.0dBm Typical value：573mA @10MHz 23.0dBm Typical value：591mA
LTE-FDD B3	@5MHz 23.0dBm Typical value：688mA @10MHz 23.0dBm Typical value：739mA

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LTE-FDD B4	@5MHz	23.0dBm	Typical value: 770mA
	@10MHz	23.0dBm	Typical value: 746mA
LTE-FDD B5	@5MHz	23.0dBm	Typical value: 593mA
	@10MHz	23.0dBm	Typical value: 620mA
LTE-FDD B7	@5MHz	23.0dBm	Typical value: 596mA
	@10MHz	23.0dBm	Typical value: 588mA
LTE-FDD B8	@5MHz	23.0dBm	Typical value: 611mA
	@10MHz	23.0dBm	Typical value: 610mA
LTE-FDD B20	@5MHz	23.0dBm	Typical value: 602mA
	@10MHz	23.0dBm	Typical value: 638mA
LTE-FDD B28	@5MHz	23.0dBm	Typical value: 511mA
	@10MHz	23.0dBm	Typical value: 514mA
LTE-FDD B66	@5MHz	23.0dBm	Typical value: 819mA
	@10MHz	23.0dBm	Typical value: 859mA
LTE-TDD B34	@5MHz	23.0dBm	Typical value: 274mA
	@10MHz	23.0dBm	Typical value : 275mA
LTE-TDD B38	@5MHz	23.0dBm	Typical value: 349mA
	@20MHz	23.0dBm	Typical value : 366mA
LTE-TDD B39	@5MHz	23.0dBm	Typical value : 278mA
	@20MHz	23.0dBm	Typical value : 273mA
LTE-TDD B40	@5MHz	23.0dBm	Typical value : 284mA
	@20MHz	23.0dBm	Typical value : 291mA
LTE-TDD B41	@5MHz	23.0dBm	Typical value : 345mA
	@20MHz	23.0dBm	Typical value : 354mA

4 Wiring Diagram

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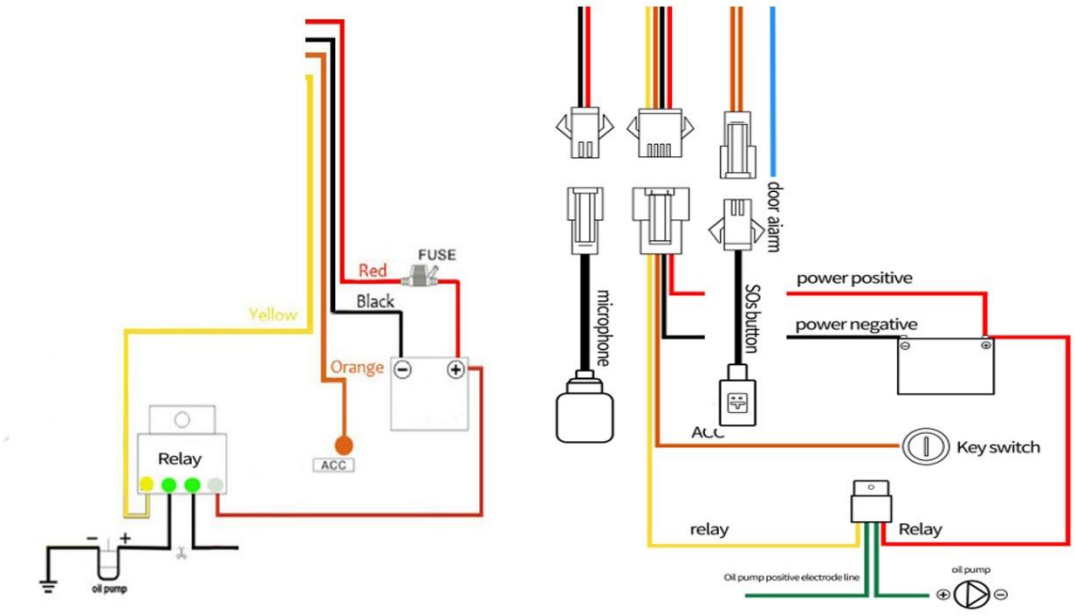

5 Configuration

All our GPS trackers can be configured by SMS, PC, online platform as well as on production line. Following are the introduction of SMS and PC way while please resort to your salesman/ saleswoman if you need them to be configured by platform or on production line.

5.1 PC configuration.

Open the ComTools, and then Connect the GPS with a serial port USB cable, then connect it to the power supply.

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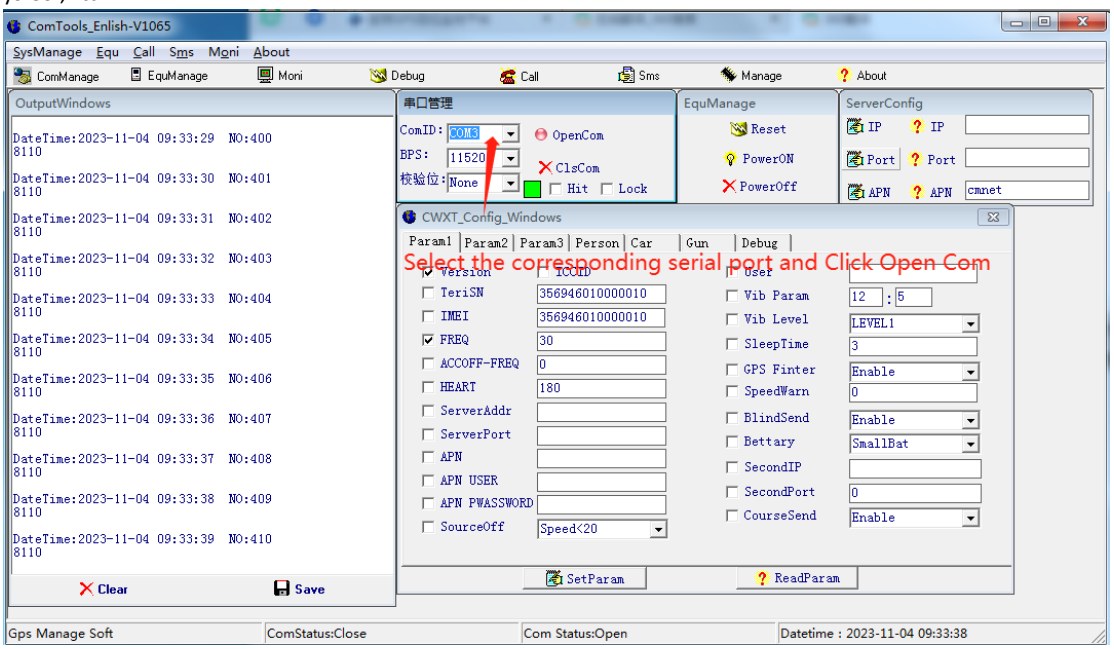
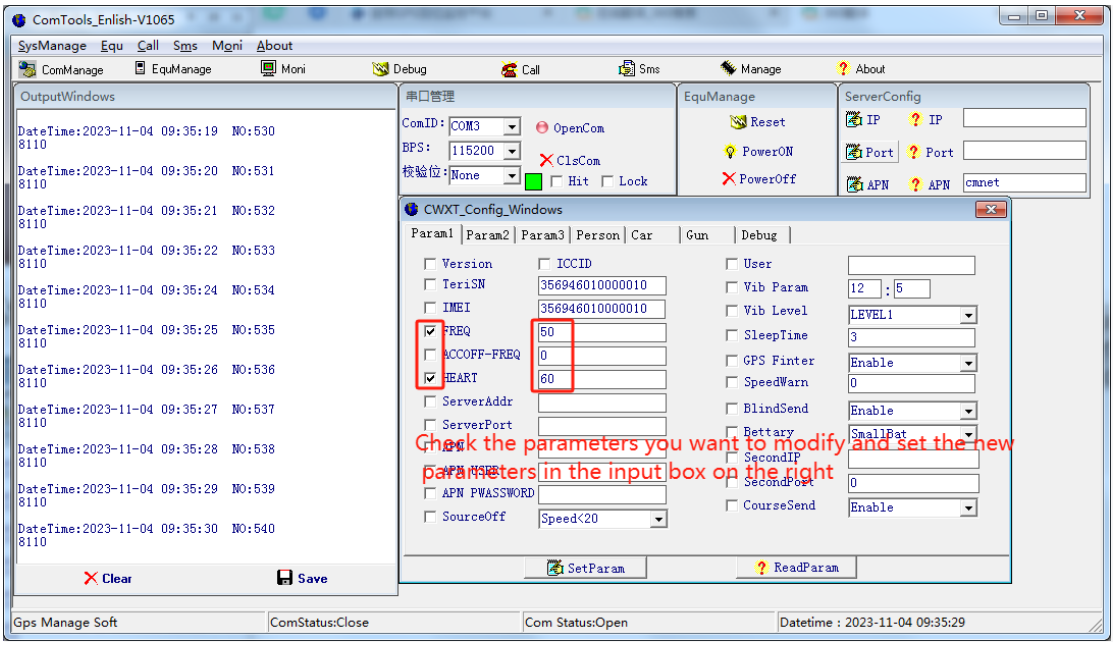


Select the corresponding serial port and click open Com



Check the parameters that you want to modify and set the new parameters in the input box on the right.

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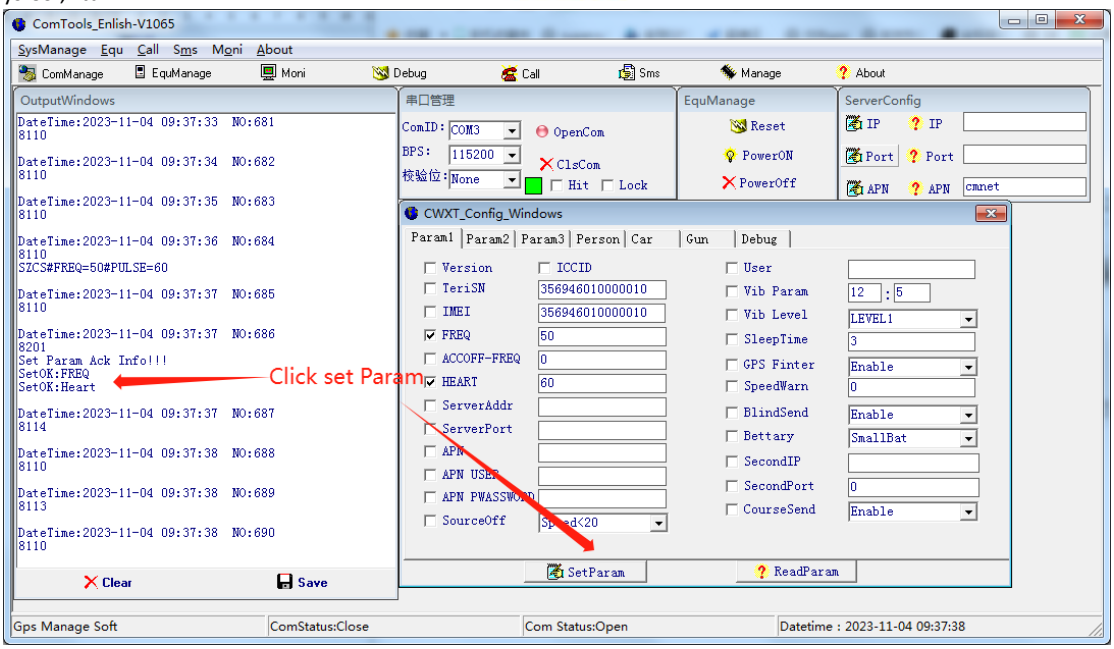
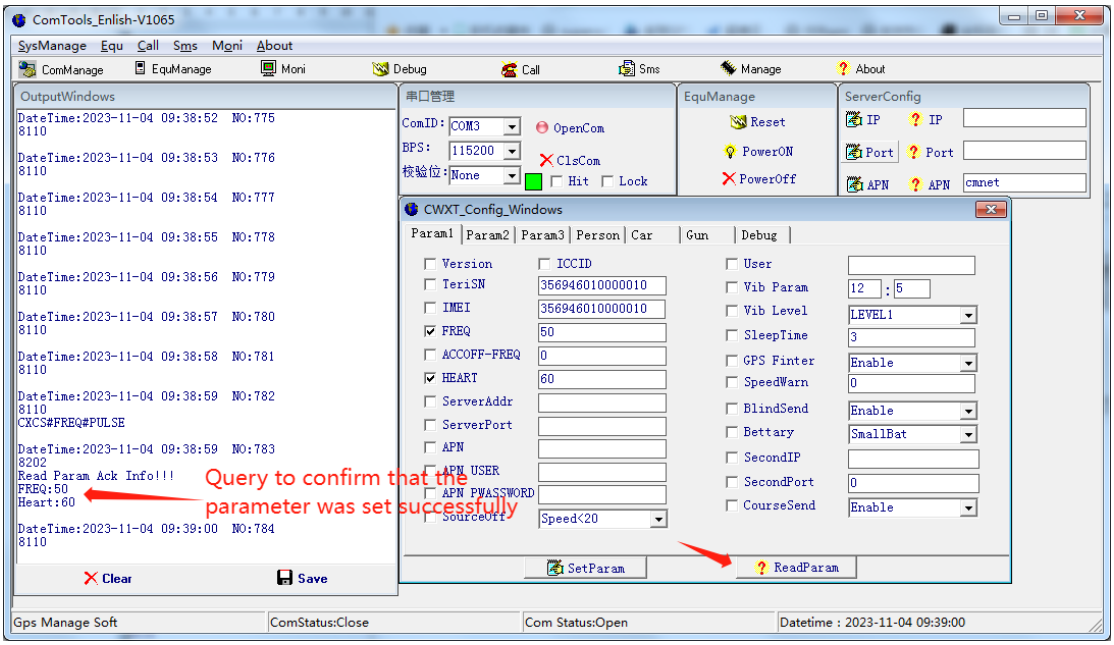


Click “SetParam”



Query to confirm that the parameters have been set successfully.

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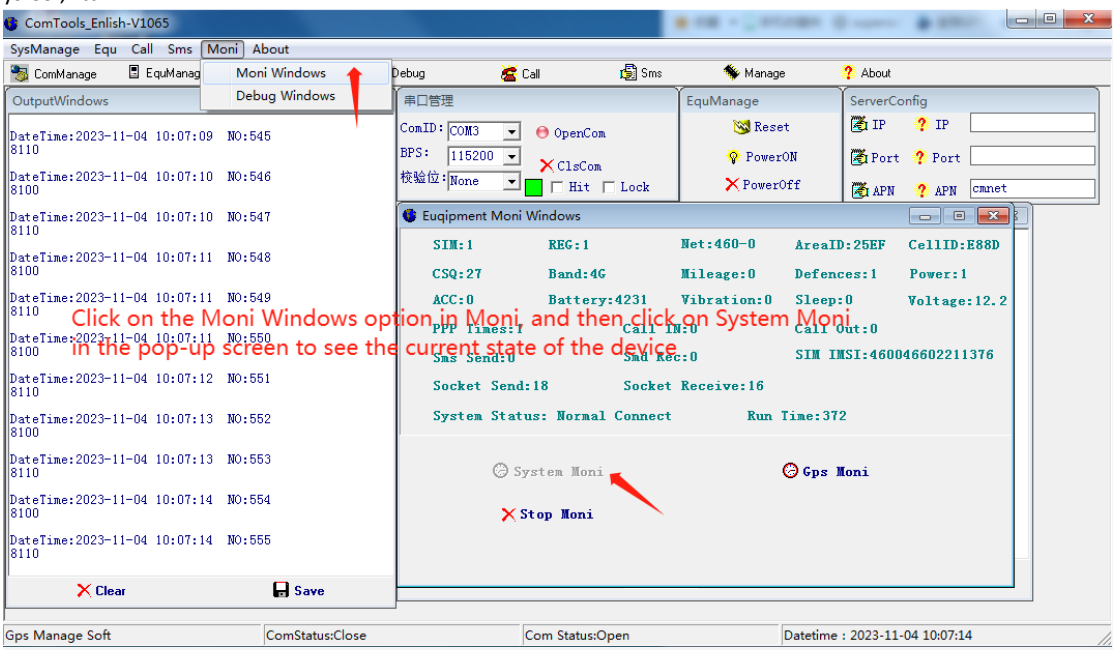
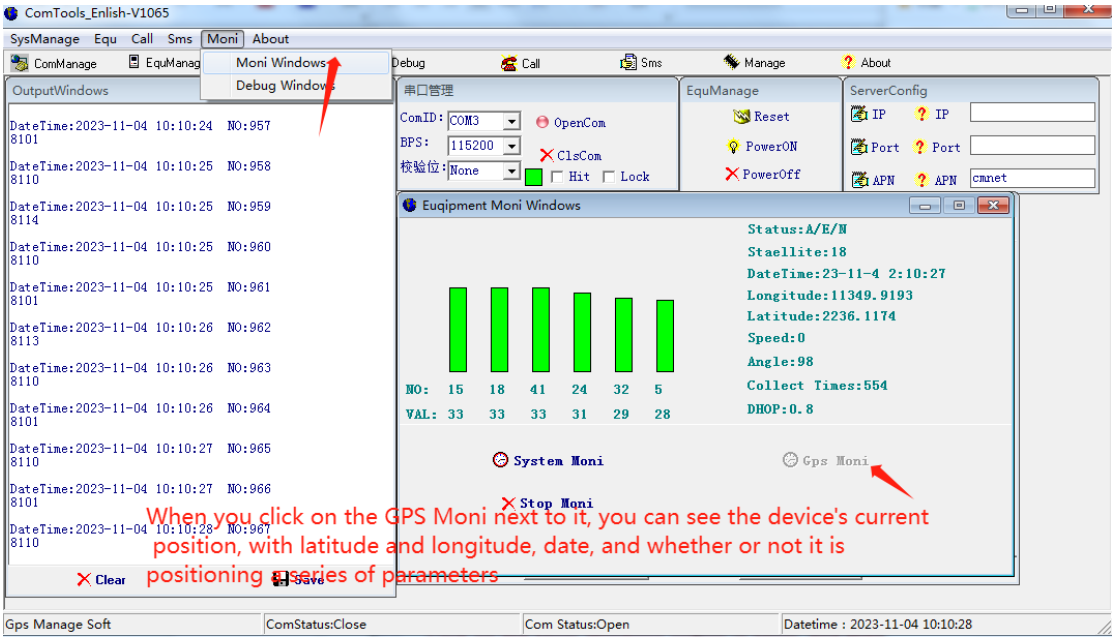


Click on the Moni Windows option in Moni, and then click on System Moni in the pop-up screen to see the current state of the device



When you click on the GPS Moni next to it, you can see the device’s current position, with latitude and longitude, date, and whether or not it is positioning a series of parameters.

Some parameters cannot be set directly, we can use the tool in the SMS receive simulation to set parameters

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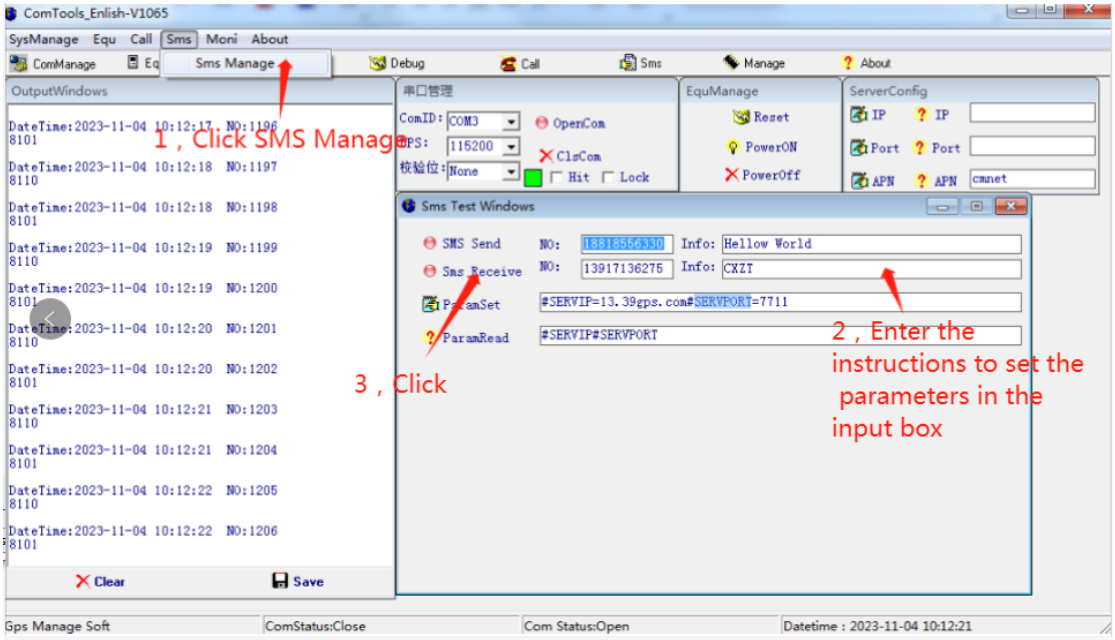
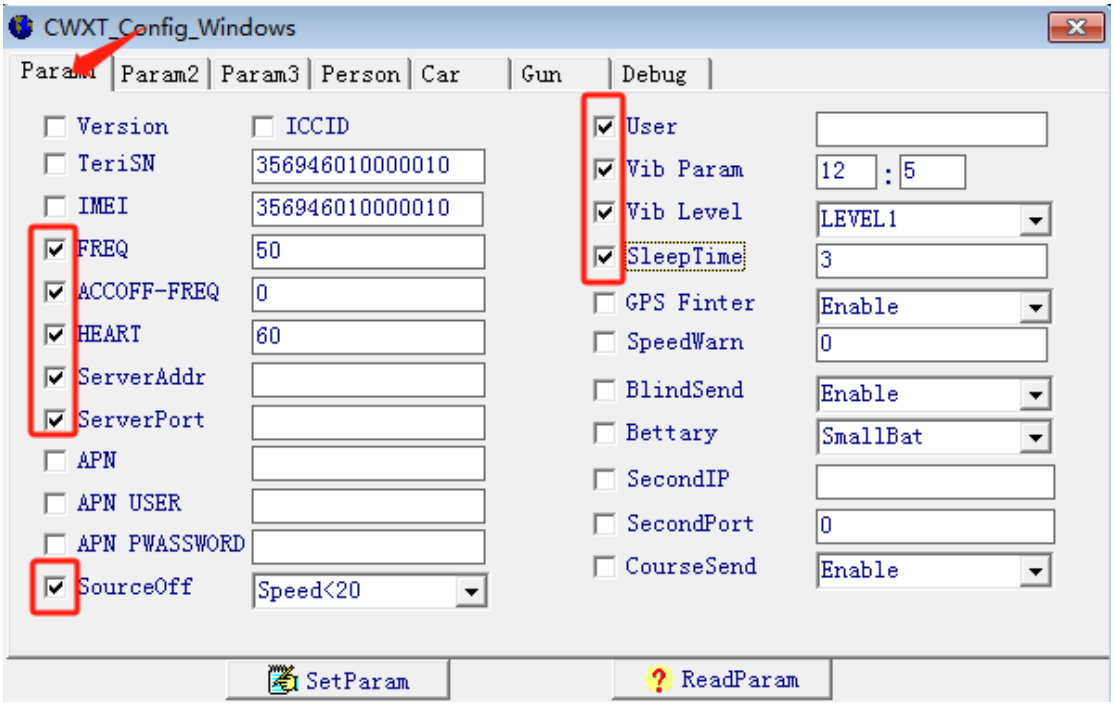


1, Click SMS Manager
2, Enter the instructions to set the parameters in the input box
3, Click

The meaning of the main parameters



FREQ: Set the interval for GPS reporting positioning
ACCOFF-FREQ: The interval for reporting positioning after the device is

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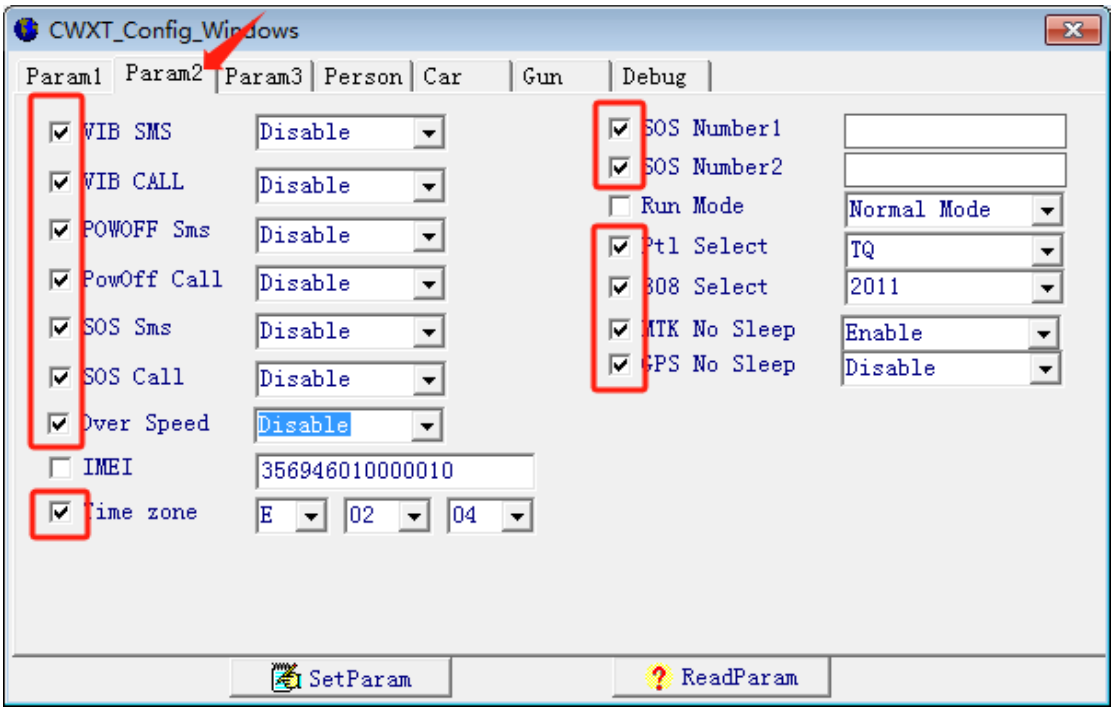
dormant
HEART: Connect platform data to prevent devices from being kicked off the platform
SourceOff: Used to test the power off function in the office
ServerAddr&Serverport: The IP port of the server used to connect to the platform
User: The owner's phone number
Vib Param: Set how many times the device will vibrate in a certain amount of time to wake it up
Vib Level： Level 1 is the most sensitive vibration level
SleepTime: The device goes dormant for a certain period of time after being stationary



VIB SMS: Vibration SMS alarm, next to the drop-down box can choose to open or close the alarm
VIB CALL: Vibrating phone alarm, next to the drop-down box can choose to open or close the alarm
POWOFF Sms: Power off SMS alarm, next to the drop-down box can choose to open or close the alarm
POWOFF Call: The next drop-down box can be selected to turn the alarm on or off
SOS Sms: The next drop-down box can be selected to turn the alarm on or off

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SOS Call: SOS phone alarm, next to the drop-down box can choose to open or close the alarm
Over Speed: Speeding alarm
Time zone: Sets the time zone of the device
S0S Number1&S0S Number2: SOS alarm phone number settings
Ptl Select: Protocol settings, can set the TQ protocol, 808 protocol, GT06 protocol
808 Select: 808 protocol version settings, the default is 2011 version
MTK No Sleep: Whether the device MTK is always set
GPS No Sleep: Whether the device GPS is always set

5.2 SMS configuration.

Grammar: English symbols must be used. When the command is not normal: no reply or the format of the reply command is incorrect
Channel: All commands support two communication methods: SMS and platform transparent transmission
Alarm: After triggering the alarm, when the alarm is configured with SMS and CALL functions

The number of SMS sending is determined by the number of set center numbers, and alarm messages are sent to the set center numbers in turn.
The number of CALL alarm calls is determined by the number of set center numbers. When any number is answered by the user, the call will not continue Otherwise, call all set center numbers in sequence
The number processed by SOS alarm SMS and CALL is the SOS number.

Phone number: The device uses the international number format to process SMS and CALL functions. When setting the number, you need to add the country code before the number.
For example, the China domestic code is "86", and the mobile phone number is:13912345678, When set as center number 1, send: CENTER,A,8613912345678#

Note 1: All numbers of 2G devices use international numbers, and 4G devices use regular mobile phone numbers (it is not necessary to add a country number before the number).
Note 2: Some 4G devices no longer support voice calls due to space

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constraints.

Note 3: Due to the management of short messages by domestic operators, if the reply of the device contains an IP/domain name/http link, the mobile phone terminal may fail to receive this type of short message during multiple tests, and the mobile card needs to wait 4 hours before it can be received again.

Below is the commands list table

NO.	Parameter Specification	Command	Reply & Note
1	Server setting	SERVER,1,domain name,port,0#	
		SERVER,0,IP,port,0#	Note: 0 stand for TCP
2	Server query	SERVER#	Reply: SERVER:0,IP,port,0
3	APN setting	NAPN=cmnet,,	cmnet is APN name
		NAPN=cmnet,123,666	APN include username and password
		APN,cmnet,,#	Reply: APN:cmnet,aaa,bbb
		APN,cmnet,aaa,bbb#	Note: It is recommended to keep the comma placeholder when there is no username and password
4	APN query	APN#	Reply: APN:cmnet,, Note: cmnet is APN name
5	Heartbeat setting interval	HBT,T1,T2#	T1=1～5 minutes，ACC ON Heartbeat upload interval T2=60～300 minutes，ACC OFF Heartbeat upload interval
			Send: HBT,180,180# Reply: HBT ACC ON:180s,ACC OFF:180s
6	Query the interval for heartbeat	HBT#	Reply: HBT ACC ON:180s,ACC OFF:180s
7	Reset command	RESET#	Reply: RESET OK
8	Address query	666# URL# POSITION#	
9	Status query	STATUS#	Battery:4.23V;GPRS:Offline;GSMSignal Level:25;ACC:OFF;GPS:OFF;Defense:ON;
10	Version query	VERSION#	Reply: J14_H18_GT06_54 V4.11 20220312
11	Query parameter setting	PARAM#	IMEI:123456781911111;TIMER:10,3600;SNEDS:3;HBT:180Sec;Defense:2;

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12	Latitude and longitude position query	WHERE#	LastPosition! Lati:N22.601993,E113.832423,Course:169,Speed:0,DateTime:2022-03-20 22:48:49
13	Add SOS number	SOS,A,number 1,number 2,number 3#	SOS,A,8618509221224# SOS,A,8618509221224,8615912345678# SOS,A,8618509221224,8615912345678,8613812345678# You can choose to set 1 or more numbers at a time
14	Delete SOS number	SOS,D,number 1,number 2,number 3#	SOS,D,8618509221224# SOS,D,8618509221224,8615912345678# SOS,D,8618509221224,8615912345678,8613812345678# You can choose to delete 1 or more numbers at a time
15	Query SOS number	SOS#	Reply： SOS:8618509221224,8615912345678,8613812345678
16	Add center number 1	CENTER,A, center number#	Send：CENTER,A,8618509221224# Reply：CENTER,A:8618509221224
17	Delete center number 1	CENTER,D#	Reply: CENTER Del OK
18	Add center number 2	CENTER,A2, center number#	Send：CENTER,A2,8613912345678# Reply：CENTER,A2:8613912345678
19	Delete center number 2	CENTER,D2#	Reply: CENTER D2 Del OK
20	Add center number 3	CENTER,A3, center number#	Send：CENTER,A3,8613512345678# Reply：CENTER,A3:8613512345678
21	Delete center number 3	CENTER,D3#	Reply: CENTER D3 Del OK
22	Query center number	CENTER#	Reply: CENTER,A:8618509221224 CENTER,A2:8613912345678 CENTER,A3:8613512345678
23	Allow auto answer	777#	Reply:Automatic incoming call answering has been set Note: After setting, the device will automatically answer when any number calls in
24	Disable automatic answering	888#	Reply:Automatic incoming call answering has been close

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25	Set up call-in function	SZCS#CALL_FUN=A	A=0 Voice monitoring function after incoming call A=1 After calling in, reply to the google link Send：SZCS#CALL_FUN=1 Reply：SETOK: CALL_FUN=1
26	Query incoming call function	CXCS#CALL_FUN	Reply：READOK: CALL_FUN=1
27	GPS data timed transmission interval	TIMER,T1,T2#	T1=5～60 second；ACC ON status upload interval T2=5～1800 second；ACC OFF status upload interval
			Send：TIMER,30,300# Reply：TIMER ACC ON:30s,ACC OFF:300s
28	Query GPS data timed transmission interval	TIMER#	Reply：TIMER ACC ON:30s,ACC OFF:300s
29	Delay defense setting	DEFENSE,A#	A:1～60 minutes，defense delay time Send：DEFENSE,3# Reply：DEFENSE:3
30	Query Delay defense time	DEFENSE#	Reply: DEFENSE:2
31	SENSOR control GPS time	SENDS,A#	A=0-300 minutes,0 means GPS normally open
32	Query SENSOR control GPS time	SENDS#	Reply: SENDS:3
33	Fuel/power control	RELAY,A#	A=0/1；0 means connect fuel/power，1 means cut off fuel/power. Reply: RELAY 1 OK
34	Query fuel/power control status	RELAY#	Reply: RELAY:0
35	Open vibration alarm setting	SENALM,A,M#	A=ON M=0～2；alarm transport ways,0 means only GPRS,1 means SMS+GPRS,2 means GPRS+SMS+CALL Send: SENALM,ON,2# Reply：SENALM:ON,2
36	Close vibration alarm	SENALM,OFF#	Reply: SENALM:OFF
37	Query vibration	SENALM#	Reply: SENALM:OFF

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	alarm setting		
38	Open power off alarm setting	POWERALM,A,M,T1,T2,#	A=ON M=0～2；0 means only GPRS，1 means SMS+GPRS，2 means GPRS+SMS+CALL
			T1=2～60 second, power off check time ；T2=1～3600 second, minimum charging time Send: POWERALM,ON,2,10,10,# Reply：POWERALM:ON,2,10,10
39	Close power off alarm	POWERALM,OFF#	Reply: POWERALM:OFF
40	Query power off alarm status	POWERALM#	Reply: POWERALM:ON,2,10,10
41	Open low power alarm setting	BATALM,A,M#	A=ON M=0～1 0 means only GPRS，1means SMS+GPRS Send：BATALM,ON,1# Reply：BATALM:ON,1
42	Close low power alarm setting	BATALM,OFF#	Reply: BATALM:OFF
43	Query low power alarm status	BATALM#	Reply: BATALM:ON,1
44	Open displacement alarm setting	MOVING,A,R,M#	A=ON R=100～1000, displacement radius M=0～2 0 means only GPRS, 1 means SMS+GPRS 2 means GPRS+SMS+CALL Send：MOVING,ON,1000,2# Reply：MOVING:ON,1000,2
45	Close displacement alarm	MOVING,OFF#	Reply: MOVING:OFF
46	Query displacement setting status	MOVING#	Reply: MOVING:ON,1000,2
47	Open overspeed alarm	SPEED,A,B,C,M#	A=ON B=5～600 second, over-speed time C=1～255km/h, speed limit M=0～1, 0 means only GPRS，1 means SMS+GPR
			Send：SPEED,ON,10,120,1# Reply：SPEED:ON,10,120,1
48	Close overspeed alarm	SPEED,OFF#	Reply: SPEED:OFF

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49	Query overspeed setting status	SPEED#	Reply: SPEED:ON,10,120,1
50	Turn on the ACC ignition alarm	ACCALM,A,M# A=ON M=0～3 0 ： only GPRS， 1 ： GPRS+SMS， 2 ： GPRS+CALL， 3 ： GPRS+SMS+CALL	Send：ACCALM,ON,3# Reply：ACCALM:3,OK
51	Turn off the ACC ignition alarm	ACCALM,OFF#	Reply： ACCALM,OFF OK
52	Query ACC ignition alarm	ACCALM#	Reply: ACCALM:3,OK
53	Turn on the ACC flameout alarm	ACCOFFALM,A,M# A=ON M=0～3 0 ： only GPRS， 1 ： GPRS+SMS， 2 ： GPRS+CALL， 3 ： GPRS+SMS+CALL	Send：ACCOFFALM,ON,3# Reply：ACCOFFALM:3,OK
54	Turn off the ACC flameout alarm	ACCOFFALM,OFF#	Reply: ACCOFFALM,OFF OK
55	Query the ACC flameout alarm	ACCOFFALM#	Reply: ACCOFFALM:3,OK
56	Set sleep mode	SZCS#SLPDISCONNECT=A	A=0 keep platform connected after sleep (default) A=1 Power off platform connection after sleep, SMS is available A=2 Disconnect the platform after sleep, SMS is not available Send: SZCS#SLPDISCONNECT=0 Reply: SETOK: SLPDISCONNECT=0
57	Query the sleep mode	CXCS#SLPDISCONNECT	Reply: READOK: SLPDISCONNECT=0

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58	SMS time zone setting	GMT,A,B,C#	A: E or W;"E" means eastern time zone, "W" means western time zone;default: E B: 0～12;time zone default: 8 C: 0/15/30/45;half time zone;default: 0 Send：GMT,E,8,0# Reply：GMT:E,8,0
59	SMS time zone query	GMT#	Reply: GMT:E,8,0
60	GPRS time zone setting	SZCS#GT06GPRSGMT=A	A=0 Fixedly use 0 time zone to report to the platform (default) A=1 The platform time zone is synchronized with the SMS time zone Send: SZCS#GT06GPRSGMT=1 Reply: SETOK: GT06GPRSGMT=1
61	GPRS time zone query	CXCS#GT06GPRSGMT	Reply: READOK: GT06GPRSGMT=1
62	Turn on SOS alarm	SOSALM,A,M# A=ON M=0～2; Alarm method: 0 Only GPRS, 1 SMS+GPRS, 2 GPRS+SMS+CALL;	Send：SOSALM,ON,2# Reply：SOSALM Set OK
63	Turn off SOS alarm	SOSALM,OFF#	Reply: SOSALM:OFF
64	Query SOS alarm	SOSALM#	Reply: SOSALM:ON,2
65	GT06 platform protocol settings	SZCS#GT06SEL=A	A=0 adopted (default, V1.8 protocol) Positioning and blind area data are reported using 0x12 A=1 (V3 protocol) Positioning and blind area data are reported using 0x22 Send: SZCS#GT06SEL=1 Reply: SETOK: GT06SEL=1 Note: 0x22 is used to report, and the positioning data can be contains: ACC status, blind spot flag, mileage data
66	GT06 platform protocol query	CXCS#GT06SEL	READOK: GT06SEL=1
67	ICCID reporting platform settings	SZCS#GT06ICCID=A	A=0 do not report ICCID A=1 report ICCID Note: Use 79 79 to report, ID use 0x0A
68	ICCID reporting	CXCS#GT06ICCID	READOK: GT06ICCID=0

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	platform query		
69	External power voltage reporting setting	SZCS#GT06IEXVOL=A	A=0 Do not report external voltage (default) A=1 Customer customized version 1, use 0x36 to report A=2 Use 79 79 to report, ID use 0x00 SZCS#GT06IEXVOL=2 SETOK: GT06IEXVOL=2
70	External power voltage report query	CXCS#GT06IEXVOL	0

6 Note

Please comply with the instructions to extend the unit life:

1. Keep the unit dry. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.
2. Don't use & store the unit in dusty places.
3. Don't put the unit in overheated or overcooled places.
4. Handle carefully. Don't vibrate or shake it violently.
5. Clear the unit with a piece of dry cloth. Don't clean in chemicals, detergent.
6. Don't paint the unit, this may cause some foreign materials left in between the parts.
7. Don't disassemble or refit the unit.
8. Please read the user manual carefully before installation and operation, learn something more about the voltage range. Otherwise, it won't work properly or destroy the product.

7 Issues & the Solutions

Fail to turn it on: Please check if built-in battery is charged, and power wires connected well.

No GSM signal: Please check if SIM card installed correctly.
Please check if SIM card is GSM network.

No GPS: Installation location should be unshielded to ensure it can receive GPS signals effectively.

No reply to SMS command: Password wrong or the SMS format is wrong.

Call without SMS reply or cannot receive alarm SMS: Authorized number is wrong or without setting any authorized number.

Stop engine fail: Check the relay for engine cut is right connected.

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