1.Overview

1.1 Features

· LTE & WCDMA & GSM WiFi hotspot
 ACC detection for ignition status IP65 water proof Remote cut-off (petrol/power Multiple alerts

1.2 Specifications

	GSM: 850/900/1800/1900 MHz	
Frequency	WCDMA: 850/900/1900/2100MHz	
, , ,	(B1/B2/B5/B8)	
	LTE:B1/B2/B3/B4/B5/B7/B8	
GPS	Chipset: U-blox 7020	
GF3	Frequency: GPS L1, 1575.42MHz	
Location accuracy	<10 meters	
WiFi	2.4 GHz	
LED indicator	GPS (blue), GSM(green), power (red)	
Battery	450mAh/3.7V	
Working	9-36V	
voltage/current	12VDC/76mA(12VDC); 38mA(24VDC)	
Operating	-10°C ~ 40°C	
temperature	100 100	
Dimension	113(L)*51(W)*20(H)mm	
Weight	105g	

1.3 Accessories

12V relay SOS cable Power cable

After receiving this command, the device will reboot after

8.13 SOS

In emergent case, press SOS for 3 seconds to activate SOS alarm. Then the device will send SOS SMS to preset SOS numbers and dial the numbers in a loop for 3 times till the call picked up. Alarm message will also be sent to the platform.

8.14 Wi-Fi hotspot

Command: HOTSPOT,S,N,P#

S=ON/OFF Default: OFF (uppercase required) N=Name, 20 characters, default: last four digits of IMEI P=Password, minimum eight, default password: 11111111

9.Platform & APP

9.1 Login service platform

Please login the designated service platform to set and operate the device.

9.2 Download APP

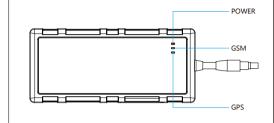
Please download and install the APP in designated website, APP store or Google Play.





After receiving this command, the device will reboot after

2.Device appearance



3.Wiring Diagram

POWER AN	D I/O
Purple:SOS+ — Black:GND — White:SOS- —	Red:DC Orange:ACC Yellow:Relay

	A1	Red		PW+	Power: 9v ~ 36v
	A2	Orange		ACC	ACC
	А3	Yellow	-	Relay	Fuel/Power cut-off
	A4	Black		GND	GND
	A5	Purple		SOS +	SOS (Positive)
	A6	white	0	SOS -	SOS (Negative)

Battery specified by manufacturer is recommended.

Maintenance or service arising from any other accessories

Nonprofessionalsoperation may cause device damage.

If you are having trouble with your device, try these troubleshooting procedures before contacting a service

unable to transmit

when use the GPS

tracker in the places

building around or

Power switch is off

No SIM card

SIM card inserted

orrectly

above the SIM card

nvalid SIM card

Not in GSM service

reception, such as: tall

Using the GPS tracker

that have poor signal good signal condition.

charge

Insert SIM card

Check SIM card

Clean SIM card

Move to service area

Manufacturer assumes no responsibility for any damage caused

10. Warning

is not guaranteed.

Unable to

Unable to

by non-original accessories.

Do not bend or open the battery

11. Troubleshooting

Do not immerse or burn the battery

Device dis-assembly is strongly forbidden.

4.LED indications

Green LED(GSM indicator)

Status	Definition
0.3s ON, 0.3s OFF	GSM initializing
1s ON, 3s OFF	GSM normal
0.1s ON, 3s OFF	GPRS online
OFF	No GSM or SIM card

Definition
Low battery
Work normally
Charging
No battery/Malfunction

Blue LED(GPS indicator)

Status	Definition
0.3s ON, 0.3s OFF	Searching GPS signal
1s ON, 3s OFF	GPS positioned successfully
OFF	GPS sleeps or doesn't work
Solid ON	Bluetooth configuration

Note: LED indicators will be off after 180s when ACC is OFF.

5.Hardware Operation (1)SIM Card installation

Fail to locate

SIM card should have access to GPRS and SMS. Remove the cover, switch the device to OFF and insert the SIM card in correct direction.

SIM has no access to

inquiry failed"

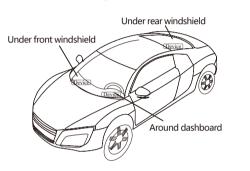


6.Device Installation



You need to choose somewhere that it won't be found, because the whole point of fitting covert GPS vehicle tracker is the secrecy element.

- . Your device has built-in GSM antenna and GPS antenna During installation, please make sure the receiving side face is up; any high power devices such as reversing radar, anti-theft device or communication equipment would affect the signal of the device. 2. All metallic cases of the windshield will attenuate the
- signal on the tracking device. It's simply due to the
- 3. The device should be fixed into position with cable ties or wide double-side tape.



In the parcel shelf in the rear;

Under the dash board below the front windshield;

In the front bumper (non-material face), make sure the device does not get wet;

Under the wiper version (non-metal), make sure the device does not get wet;

Non Covert Installation - fix the device on the dash board below windshield.

- .. The standard voltage is 9V-36V, the red wire is the positive, the black wire is the negative.
- 2. Connect the black wire to ground.

8. Operations & Functions

(1) Add SOS number via SMS command Send SMS command: SOS,A,nu

SOS numbers can be set. If set successfully, the terminal will

(set all 3 SOS numbers) SOS,A, 13510***60# (set the first SOS number)
SOS,A, 135116***6# (set the second SOS number)
SOS,A, ,136126***8# (set the third SOS number)

2) Delete SOS Numbers Send SMS command: SOS. D.1.2.3#

D means delete SOS number)

SOS, D,3# means delete the third number

(3) Add SOS numbers via platform You can set SOS number via the platform or APP when device

To ensure GPRS is activated, please make sure APN is

This device meets the government's requirements for exposure to radio waves. The guidelines are based on

standards that were developed by independent scientific

of age or health. The SAR limit of USA (FCC) is 1.6 W/kg

averaged. Device: 4G Vehicle GPS Tracker

equirements, and should be avoided.

organizations through periodic and thorough evaluation o

scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardles

(FCC ID: 2AMLF-JM-VL01) has also been tested against this

SAR limit. SAR information on this and other pad can be viewed on-line at http://www.fcc.gov/oet/ea/fccid/. Please

use the device FCC ID number for search. This device was

ested simulation typical 5mm body. To maintain compliance

with FCC RF exposure requirements, use accessories should

maintain a separation distance between the user's bodies mentioned above, the use of belt clips, holsters and similar

accessories should not contain metallic components in its

assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure

GSM900: Tx: 880-915MHz, Rx: 925-960MHz DCS1800: Tx: 1710-1785MHz, Rx: 1805-1880MHz

WCDMA Band 1: 22.86dBm, WCDMA Band 8: 22.37dBm FDD-LTE Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz

2412-2472MHz for 802.11b/g/n(HT20) 2422-2462MHz for 802.11n(HT40) 14.16dBm (EIRP)

12/24V Relay 86 30 878 85

Frequency Range: 1575.42MHz receiver

The following operation can be achieved through the terminal platform or APP provided by the dealer.

8.1 SOS number

(A means add number).

e.g. SOS,A,13510****60,135116****6,136126***

If you don't know the sequence number, you can also delete the number by SMS command like this: SOS, D,

It will reply "OK" if the number is deleted successfully.

8.2 APN setting

correct. You can send SMS command to set APN: APN command format: APN,APN's Name#
E.g: APN,internet# ("internet" is the APN of carrier) he device will reply "OK" if setting successfully.

Note: The APN of some countries have user name and

FCC RF Exposure Information and Statement

password, you may need to send SMS command as following: APN, APN name, user name, I

1. Preset SOS numbers before sending SMS alarm messages

The time ranges from 1 to 60 minutes, default is 10.

8.3 Server setting

8.4 Center number

Delete center number :

T1=0: no data uploaded

T1=5 ~ 18000 seconds (Default: T1=10)

T2=0: no data uploaded T2=5 ~ 18000 seconds (Default: T2=0)

8.6 Arming time setting

Default platform is www.trac

connect to other platform, please send the SMS

command to change the DNS or server IP:

It will reply "OK" after set successfully.

E.g: SERVER,1,gpsdev.tracksolid.com,21100,0#

8.5 Upload positioning data regularly

T1: ranges from $0/5 \sim 18000$ seconds, the upload interval when

T2: ranges from 0/5 \sim 18000 seconds, the upload interval when ACC OFF

Delay time for device entering arming state after the vehicle

vehicle vibrates for a few times, it will activate the vibration

level) after 3 minutes, the device will start vibration alarm. SMS format:

power is off and ACC is in low-level. In the arming state, if the

alarm system. If the vehicle battery is still not on (ACC is in low

from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for

2. If there is no need for vibration alarm, please send SMS

most. At the meantime, the device will upload power cut

http://maps.google.com/maps?q=N22576713,E113.9165

The SOS numbers should be preset, please refer to **8.1**.

Send oil cut-off command on platform. To make sure the

security of vehicle, tracker can only indicate to cut off oil.

when GPS is in valid position status, and the speed is less than 20KM/H or in static. Platform account password is needed when sending oil cut off command.

Firstly, you should set a center number. Please refer to **8.4.**

Only center number can send the command to the device

After the command is carried out, it will reply "RELAY:ON"

If the command didn't carry out, it will reply the reason about fail to carry out.

To ensure the safety of the driver and the car, this

command is valid only under two conditions: the GPS is located; the speed is less than 20km/h.

off alarm data to the server. And it will send:

Cut off Power Alarm! < 06-17 14:53>,

8.8 Oil cut-off

1. via platform

2. Via SMS

The format is: RELAY,1#

1. Via platform 8.7 Wire cut-off alarm

When the alarm is off, sending recover oil commands manually. Device will restore oil supplying, and vehicle will When the electricity supply of device is cut off, it will work normally again. activate cut-off alarm. In this case, the device will send Platform account password is needed when sending oil related SMS to the SOS numbers and dial the numbers in cut off command. circles. If nobody answers, the call just keeps 3 loops at

8.9 Restoring Oil

2. Via SMS

Only center number can send the command to the device to restore oil.
The format is: RELAY,0#

After the command is carried out, it will receive "RELAY:0FF"

8.10 Over Speed Alarm When the car is moving over a limited speed in average in

a limited time period, then the device will send over speed alarm SMS to user. To turn on the over speed function, please send below SMS command:

Time range (Second): 5-600s (default as 10s). Limited speed range (km/h): 1-255, default : 100. Way of alarm: 0, GPRS only; 1, SMS+GPRS; default : 1.

Means when the car is moving over 120 km/h in average in

10 seconds, the device will send over speed alarm to user.

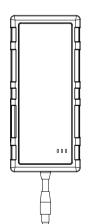
8.11 Restore to factory setting SMS command format: "FACTORY#" to set all parameter

to default factory value. Once received "FACTORY:OK!"

8.12 Reboot device

When there is something wrong with the link of GPRS, e.g., the parameter setting of the device is correct, but you can't track the car on the platform. At this moment you can send a command to the device to reboot the device. The format is: RESET#

User Manual



Avoid placing the device somewhere that metal will be covering it up.

Maintenance Record

	Date	Serviced by	
	Product Model		
	IMEI Number		
l			
nt			

attempted by any unauthorized service centre. 4. Repair or replacement under the terms of this warranty does not provide right to extension or renewal of the warranty period.

supplier to get GPRS

service

mpleted, and upon presentation of the proof of purchase isisting of original invoice indicating the date of purchase, del and serial No. of the product. We reserve the right to use warranty if this information has been removed or changed	Warranty instructions and service
Our obligations are limited to repair of the defect or replacement	The warranty is valid only when the warranty card is properly mpleted, and upon presentation of the proof of purchase nsisting of original invoice indicating the date of purchase, odel and serial No. of the product. We reserve the right to use warranty if this information has been removed or changed er the original purchase of the product from the dealer.
	Our obligations are limited to repair of the defect or replacemen e defective part or at its discretion replacement of the product of

3. Warranty repairs must be carried out by our Authorized Service Centre. Warranty cover will be void, even if a repair has been

5. The warranty is not applicable to cases other than defects in material, design and workmanship.

Date	Serviced by	
Product Model		
IMEI Number		
Fault Descriptions		

ecord	CE Caution: Use the Product in the environment with the temperature		
Serviced by	Between -10°C and 40°C; Otherwise, it may damage your product. Products can only be used below 2000m altitude For the following equipment: Product Name: 4G Vehicle GPS Tracker Model: JM-VL01, GV40, VL01 Brand Name: Jimi Shenzhen Jimi IOT Co., Ltd E-mail: gaoxingxin@concox.cn hereby declares that this [Name: 4G Vehicle GPS Tracker, Model: JM-VL01, GV40, VL01] is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The equipment was passed. The test was performed according to the following European standards:		

The full text of the EU declaration of conformity is available at the internet address: https://www.jimilab.com/JM-VL01-CE-DoC.pdf
The product shall only be connected to a USB interface of

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

TO THE INSTRUCTIONS

version USB2.0 and that the connection to a power USB is

This product is intended for sale and application in a business RED Article 10 2 -This product can be used across EU member states RED Article 10 10 -The product is class 1 product, No restrictions
The RF distance between body and product is 5mm

RF Output Power: GSM900: 31.30dBm, GSM1800: 25.39dBm EDGE900: 30.30dBm, EDGE1800: 25.75dBm

Please pay attention to the diagram description,

battery is 9-36V and relay remains 12V / 24V.

WCDMA Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz WCDMA Band 8: Tx: 880-915MHz, Rx: 925-960MHz

FDD-LTE Band 3: Tx: 1710-1785MHz, Rx: 1805-1880MHz FDD-LTE Band 7: Tx: 2500-2570MHz, Rx: 2620-2690MHz FDD-LTE Band 8: Tx: 880-915MHz, Rx: 925-960MHz FDD-LTE Band 7: 24.11dBm, FDD-LTE Band 8: 22.56dBm

FCC Warning
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to

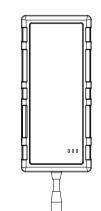
NOTE 1: This equipment has been tested and found to comply

try to correct the interference by one or more of the following - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver -Connect the equipment into an outlet on a circuit different

NOTE 2: Any changes or modifications to this unit not expressl approved by the party responsible for compliance could void the user's authority to operate the equipment.

4G Vehicle GPS Tracker

(Version 1.0)



One side of the device is marked "THIS SIDE TOWARDS SKY", place the unit upside down will result in connection issues