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			
WCDMA: 850/900/1900/2100MHz			
(B1/B2/B5/B8)			
LTE:B1/B2/B3/B4/B5/B7/B8			
Chipset : U-blox 7020			
Frequency: GPS L1, 1575.42MHz			
<10 meters			
2.4 GHz			
GPS (blue), GSM(green), power (red)			
450mAh/3.7V			
9-36V			
12VDC/76mA(12VDC); 38mA(24VDC)			
-20°C ~ 70°C			
113(L)*51(W)*20(H)mm			
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

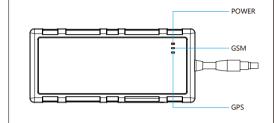
Please download and install the APP in designated website, APP store or Google Play.





After receiving this command, the device will reboot after

2.Device appearance



3.Wiring Diagram

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.

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

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

troubleshooting procedures before contacting a service

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

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

Red LED (Power indicator)

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.

supplier to get GPRS

service

SIM has no access to

Warranty instructions and service

completed, and upon presentation of the proof of purchase

after the original purchase of the product from the dealer.

consisting of original invoice indicating the date of purchase, model and serial No.of the product. We reserve the right to

refuse warranty if this information has been removed or changed

2. Our obligations are limited to repair of the defect or replacement

1. The warranty is valid only when the warranty card is properly

inquiry failed"

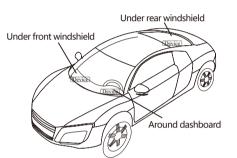




6.Device Installation

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



Under the dash board below the front windshield; In the parcel shelf in the rear;

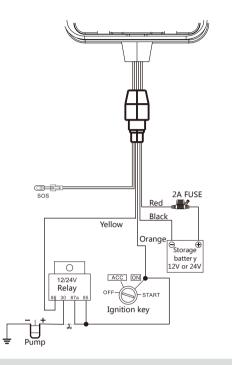
In the front bumper (non-material face), make sure the device does not get wet;

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.



Please pay attention to the diagram description, battery is 9-36V and relay remains 12V / 24V.

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

8.1 SOS number

8. Operations & Functions

(1) Add SOS number via SMS command Send SMS command: SOS,A,nu (A means add number). SOS numbers can be set. If set successfully, the terminal will

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

(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#

means delete SOS number) T1: ranges from $0/5 \sim 18000$ seconds, the upload interval when SOS, D,3# means delete the third number If you don't know the sequence number, you can also delete T1=0: no data uploaded

the number by SMS command like this: SOS, D, It will reply "OK" if the number is deleted successfully.

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

8.2 APN setting

To ensure GPRS is activated, please make sure APN is 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 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

8.3 Server setting

8.4 Center number

Delete center number :

T2=0: no data uploaded

Default platform is www.tra

connect to other platform, please send the SMS

8.5 Upload positioning data regularly

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

try to correct the interference by one or more of the following

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

T2=5 ~ 18000 seconds (Default: T2=0)

8.6 Arming time setting

command to change the DNS or server IP:

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

E.g: SERVER,1,gpsdev.tracksolid.com,21100,0# It will reply "OK" after set successfully.

When the electricity supply of device is cut off, it will activate cut-off alarm. In this case, the device will send related SMS to the SOS numbers and dial the numbers in circles. If nobody answers, the call just keeps 3 loops at most. At the meantime, the device will upload power cut off alarm data to the server. And it will send: Cut off Power Alarm! < 06-17 14:53>,

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

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

8.7 Wire cut-off alarm

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

8.8 Oil cut-off 1. via platform

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. 2. Via SMS

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

Only center number can send the command to the device The format is: RELAY,1# 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.

8.9 Restoring Oil

1. Via platform

When the alarm is off, sending recover oil commands manually. Device will restore oil supplying, and vehicle will work normally again. Platform account password is needed when sending oil

cut off command.

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.

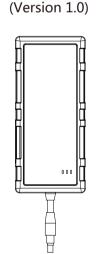
Means when the car is moving over 120 km/h in average in 10 seconds, the device will send over speed alarm to user.

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#



be covering it up.

Maintenance Record

	- Wantenance Record							
		Date		Serviced by				
		Product Model						
		IMEI Number						
d								
ent								
е								
		Fault						

the defective part or at its discretion replacement of the product 3. Warranty repairs must be carried out by our Authorized Service Centre. Warranty cover will be void, even if a repair has been

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. 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		
Comments		

CE Caution:

Use the Product in the environment with the temperature 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 version USB2.0 and that the connection to a power USB is

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

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

GSM900: Tx: 880-915MHz, Rx: 925-960MHz DCS1800: Tx: 1710-1785MHz, Rx: 1805-1880MHz RF Output Power: GSM900: 31.30dBm, GSM1800: 25.39dBm EDGE900: 30.30dBm, EDGE1800: 25.75dBm

WCDMA Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz WCDMA Band 8: Tx: 880-915MHz, Rx: 925-960MHz WCDMA Band 1: 22.86dBm, WCDMA Band 8: 22.37dBm FDD-LTE Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz

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

2422-2462MHz for 802.11n(HT40) 14.16dBm (EIRP)

FCC RF Exposure Information and Statement This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation o scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardle: of age or health. The SAR limit of USA (FCC) is 1.6 W/kg averaged. Device: 4G Vehicle GPS Tracker 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

2412-2472MHz for 802.11b/g/n(HT20)

Frequency Range: 1575.42MHz receiver

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 equirements, and should be avoided.

device must accept any interference received, including

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

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 interference that may cause undesired operation. NOTE 1: This equipment has been tested and found to comply

 Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for

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

User Manual

One side of the device is marked "THIS SIDE TOWARDS SKY", place the unit upside down will result in connection issues. Avoid placing the device somewhere that metal will