



WhatsGPS

GPS positioning terminal

Model: S21L



Manual

1. Product Features



Real-time
Tracking



4G network
communication



BDS+GPS dual
satellite positioning



OTA remote
upgrade



IP67 waterproof
design



Track
Playback



Multiple
working modes



SOS
alarm



Remote listening
/ recording



Vibration
alarm



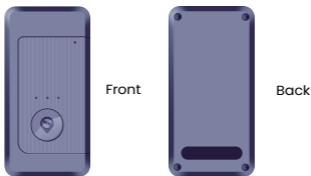
Low electric
alarm



GEO-FENCE
alarm

2. Installation Instructions

2.1 Appearance

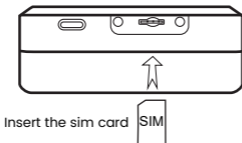


2.2 Device online operation

2.2.1 Insert the SIM card into the GPS tracker (SIM card requires SMS, data service and phone function)

Turn on the button of the GPS tracker and make sure the light is on.

(Make sure the device has power, if not, connect it to the vehicle's battery, the battery will power it)



2.1.2 Command send operation

Please send two text messages to sim card number of GPS tracker using your mobile phone.

1) [APN, apnname#](#)

This SMS is used to connect the GPS tracker to your local network.

(APN's name, is the APN of your SIM card's local carrier, such as APN, cmnet# , If you don't know the APN of your sim card, check it by searching or ask your local carrier)

2) [IP gps.whatsgps.com 6802](#)

This SMS is used to connect GPS tracker to WhatsGPS tracking platform

For other platforms, please refer to this format to send commands, see the command list below for details

2.1.3 To see whether the tracker is online, go to www.whatsgps.com or download the WhatsGPS app.

2.3 Indicator lamp status

LED Type	LED status	Meaning
Red	Always on	Charging
	Not bright	Battery is fully charged on or off
Yellow	Always on	The equipment works properly
	One flash pass in 2 seconds	GPS signal search
	Not bright	GPRS shutdown / sleep
Blue	Always on	GPS positioning success
	One flash pass in 2 seconds	GPS / BDS localization
	Not bright	GPS / BDS sleeping
Yellow and Blue	The yellow light flashes twice with the blue light (Auto-off after 5 seconds)	SOS triggered
	Always on	SOS not triggered
	Not bright	SOS does not trigger / sleep / shutdown

Installation method

The installation mode of the device is hidden installation.

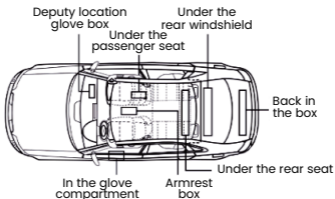
It is recommended that the installation be carried out under the guidance of the professional and technical personnel designated by the dealer. Pay attention to the following matters:

- * To avoid damage by thieves, the device location should be hidden as far as possible;
- * Avoid being placed with transmitting sources such as reversing radars, burglars, and other in-vehicle communication devices;
- * Can be fixed with cable ties, or with wide sponge strong double-sided adhesive;
- * The device has a built-in GSM antenna and GPS antenna. When installing, it should be sure to face up (towards the sky), and there is no metal shielding above.

2.4 Function Instructions

- * SOS button long press 1s to release the power, long press 3s to release the trigger SOS alarm, long press 10s to release the power supply
- * The listening function requires the SOS number to be used

3. Installation diagram



4. Specifications

Project	Specification	Remark
Operating voltage	3.7V	
Position method	GPS+LBS	
Positioning error	<10 M	
Communications network	2G/4G	
Communication band	<p>Global version LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12/B13/B18 /B19/B20/B25/B26/B8/B28/B66 LTE-TDD B34/B38/B39/B40/B41 GSM 850/900/1800/1900 MHz</p> <p>Asian version LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/B40/B41 GSM 900/1800 MHz</p> <p>Euro version LTE-FDD B1/B3/B5/B7/B8/B20 GSM 900/1800 MHz</p> <p>Latin American edition LTE-FDD B1/B2/B3/B4/B5/B7/B8/B28/B66 GSM 850/900/1800/1900 MHz</p>	
Communication mode	TCP	
Range of working temperature	-20°C~ +75°C	
Working humidity	10% RH ~ 85%RH	
Specifications size	L78mm*W39mm*H29mm	
Weight	123g	
Built-in battery capacity	3000mAh	

Working hours	About 9.5 days	In normal mode, the default 30S positioning is run for 2 hours a day
Warranty period	1year	

5. Description of Common Commands

The following commands can be sent by SIM card SMS or WhatsGPS platform

5.1 Common setup commands

SN	Command function	Command format	Remark
1	Set online	IP gps. whatsgps.com 6801	Set the device to point to server IP and port
2	Set APN	APN,123456,apnname	The APN varies according to the local telecom operator
3	Set upload interval	interval,123456,T1	T1: 60-360S, the default is 60s
4	Heartbeat interval setting	zone,123456,e08	E / W, representing the East and West time zones respectively; E08: the East eighth districts

5.2 Common query commands

SN	Command function	Command format	Remark
1	Query parameters	CXWL	Query network status
2	Query status	CXZT	Query device status
3	Device restart	CQ	

5.3 Common alarm commands

SN	Command function	Command format	Remark
1	Battery low electric alarm	LOWBATALM, 123456,N	Battery low voltage alarm; 0 off (default) N=20 represents 20% of battery power, range 1% -99%
2	Vibration alarm	VIBALARM, 123456,0/1	Vibration alarm master switch; 0 off, 1 on (default)

5.4 Working mode setting and commands

SN	Command function	Command format	Remark
1	Tracking mode	NMOD,123456	Turn on the normal tracking mode (The default working state is transmitted once in 30 seconds, and enters the standby state after resting for 5 minutes. The standby state device transmits a heartbeat every 5 minutes to maintain the server connection, and the vibration device can wake up to the working state.)
2	Intelligent mode	tmod,123456,60	Smart mode, 60 for 60 minutes (5-720 minutes) (Set the data upload interval, and the device works according to the set interval time for 2 minutes each time. During non-working hours, the device is dormant, and the vibration cannot wake up.)
3	Power saving mode	SMOD,123456	Turn on the power saving mode (The default working state is transmitted once in 30 seconds, and it enters the dormant state after being still for 2 minutes. The dormant device does not transmit data, disconnects the server and saves power, and the vibration device can wake up to the working state.)

6. Troubleshooting

If you feel something is wrong with your device while operating, see the following questions and solutions. If the problem still cannot be solved, please contact the seller or service provider.

Common Problem	Cause	Solution
Poor signal reception	When devices are used in areas with poor reception, such as near tall buildings or basements, radio waves cannot be transmitted effectively	Use the device in a location with good signal
Unable to connect to the network	The SIM card is not installed properly	Check the SIM card
	Dirt on the metal surface of the SIM card	Wipe with a clean cloth
	Invalid SIM card	Contact your Internet Service Provider
	Out of GSM service area	Please move to ISP service area
	Weak signal	Please move to a strong signal and try again
Shutdown	Please confirm whether the device is switched on	Turn on the device battery switch
	Please check whether the SIM is installed properly	Please install the SIM card properly
	Poor contact	Check that the plug is properly connected

7. After-sales warranty card

User information

User name		Contact number	
Address			
Product model		IMEI number	
Date of purchase		Invoice number	
Name of the seller			
Seller's address			
Seller's phone number			

* This card is the basic warranty certificate, please fill it carefully and keep it properly.

Warranty Description

Important Note: Please keep this warranty card properly, and enjoy one-year after-sales warranty with this card. If this card is lost, your terminal warranty period will be postponed to your purchase date within 30 days after the factory date of the terminal checked by our company. Second, the scope of the warranty.

1: During the warranty period, we give free warranty if there is a problem due to the quality of the repair item itself.

2: During the warranty period, such as due to human factors, improper operation, incorrect power supply voltage caused by failure, due to the courier process dropped, damaged by their own disassembly or torn warranty strip, and natural disasters are not covered by the warranty.

3. This warranty does not apply to cases other than defects in materials, design and workmanship.

4. There is no right to extend or renew the warranty for repair or replacement under this warranty.

8. Platform tracking

Installation video

You can watch the installation video of the device and the tutorial video of using the APP on YouTube by scanning the QR code below

