



立即定位

2G Vehicle GPS Tracker

Model:S06U



User Manual

The S06U GPS Tracker is a feature-rich positioning terminal with a wide range of applications. The device uses MTK2503D chip, supports GPS, □COMPASS, □GLONASS satellite system. In addition to supporting satellite positioning, the device also supports single base station and multi-base station positioning. For a wealth of extensions, see the description below for extensions. It integrates the self-developed hardware monitoring circuit to make the equipment reliable and stable for a long time, and can automatically recover when an abnormality occurs.

Main Characteristics

- GSM quad-band, built-in GSM/GPS antenna
- Support multi-mode satellite positioning system
- Support base station positioning
- Wide voltage input 9-90V
- Built-in high-power surge protection circuit
- Built-in hardware monitoring circuit, automatic recovery of abnormal state
- Support relay control
- Support ACC detection and alarm

- Built-in microphone circuit interface for remote listening
- Built-in battery switching circuit to support power failure alarm
- Support for SOS function
- Built-in vibration sensor to support vibration alarm
- Built-in light sensor, support for disassemble alarm
- Support for overspeed alarm
- 2 LED status indicators
- Support remote upgrade

Specifications

1、GSM/GPRS specifications

- Supported frequency band:
GSM850/GSM900/DCS1800/PCS1900
- Antenna type: built-in antenna
- GPRS rating type: Class12
- Data communication type: TCP/IP

2、GPS specifications

- Chip specification: MTK 2503D
- Supported satellite systems: GPS, COMPASS, GLONASS
- Built-in low noise amplifier circuit

- Positioning accuracy: <10m (outdoor open environment)

3、 Power system

- Support input voltage range: 9-90V
- Average operating current: 80mA
- Standby current: 3mA
- Built-in battery switching circuit supports power-off alarm function
- Support 1500W surge protection
- Built-in watchdog independent hardware circuit, automatic recovery when the crash or system abnormality, to achieve long-term stable and reliable work

4、 Extended functions

- Support engine start/stop detection and alarm (ACC detection)
- Support relay control to achieve remote power cutoff
- Connect to the pickup via the microphone interface to support remote listening
- Support SOS alarm, vibration alarm, overspeed alarm, fence alarm and other alarm functions

5、 Physical specifications

- Product size: 84x42x13.6mm
- Weight: about 57 grams

6、 Parameters

- Working temperature: -20℃ to +70℃
- Storage temperature: -40℃ to +85℃
- Working humidity: 20%-80%

Installation instructions

1、 Accessories list

- Confirm that the accessories are complete before use, including:
- S06U main device - 1 set
- Power cable - 1
- Relay - 1 set (optional)
- Microphone - 1 set (optional)
- SOS line - 1 set (optional)
- User manual - 1 unit

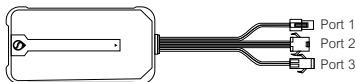
2、 Installation instructions

2.1 SIM card installation

Slide the cover down and open the SIM card. The device uses a standard-size SIM card. (Normal)

2.2 Wiring

The device has three sets of interfaces, interface 1 is used to connect the microphone, interface 2 is used to connect the power supply, and ACC detection and relays. Interface 3 is used to connect the SOS button. Interface 2 is a 4-core cable, which is relay line (yellow), power supply positive (red), power supply negative (black), ACC detection line (white).



Port 1: Micphone

Port 2: Power/ACC/Relay

Port 3: SOS botton

Wiring precautions:

- 1) The power supply range supported by the device is 9-90V. Please use the power cable supplied by the supplier. The red line is the positive and the black line is the negative. When installing the power supply negative, please choose to connect negative separately.
- 2) The ACC line (white line) is connected to the vehicle's ACC switch, and the ACC line is used for vehicle on/off status detection.
- 3) The two ends of the coil of the relay are thin white wire (85) and thin yellow wire (86). The fine white wire is connected to the positive pole of the car power supply (+12V), and the thin yellow wire is connected to the relay control line of the device. Cut the positive line of the oil pump to the normally closed section of the relay (thick green line 87a) and the other end to the common end of the relay (thick green line 30)

Remarks: This device comes standard with 12V relay, suitable for cars installed in 12V battery.

2.3 status indicator

Check the working status of the device by viewing the status indicators. The status of the indicators is as follows:

LED color	LED status	Description
Red	Fast flash	GSM starting
	Slow flash	GSM Receive signal is normal
	Light	GPRS online
	Dark	No GSM signal/ card/still sleep
Blue	Fast flash	GPS signal searching
	Light	GPS positioned
	Dark	GPS Sleep/not working

3. Common instructions

1.Set APN

Command format 1: APN, [apnname]#

Command format 2: APN, [apnname], [user], [password]#

Description: Set the APN to access the network.

Example: APN, cmnet#

2.Upload interval setting

Command format: TIMER, [T1], [T2]#

NOTE: The value of T1 and T2 is from 5-18000, the

unit is second, and the default reporting interval is 10 seconds.

T1 is the ADC ON and the upload time interval during the exercise, and T2 is the ACC OFF and the upload time interval during the exercise.

Example: TIMER, 10, 3600#

3.SOS settings

Command format: SOS, A, [Num1], [Num2], [Num3]#

Description: The SOS number is set by the SOS command. The SOS number can receive the alarm information sent by the device, and the device number can be dialed for remote listening.

The SOS number can be set to 1-3 numbers, and if the number is left blank, the SOS number is cleared.

Example: SOS, A,, 12345678911, 12345678912# means to set the second and third numbers.

Example: SOS, A, 12345678910, 12345678911, 12345678912# indicates that the first, second and third numbers are set.

Instruction format: SOS, D, [A], [B], [C]#

Description: Delete the format of the SOS number. A, B, and C are the location numbers of the SOS number, respectively, from 1-3.

Example: SOS, D, 1, 2, 3# means to delete 3 SOS

numbers.

Example: SOS, D, 3# means to delete the third SOS number.

4.Center number setting

1.Set APN

Command format: CENTER, A, [NUM]#

Note: The center number is set by the CENTER command, and the center number is used to send relay control commands.

Example: CENTER, A, 12345678901#

Instruction format: CENTER, D#

Description: Delete the center number command.

Example: CENTER, D#

5.Relay

Command format: RELAY, [A]#

Note: The value of A is 0 and 1, 1 means oil cut, 0 means recovery oil path. Only the center number can send this command to control the relay.

Example: RELAY, 1# Send this command to break the oil.

Example: RELAY, 0# Send this command to restore oil and gas.

Remarks: In order to ensure the safety of vehicles and passengers, the equipment will only perform the fuel

cut-off function when the speed is less than 20KM/h under the GPS effective positioning state.

6.Restart command

Command format: RESET#

Description: The system restarts within 1 minute after the device receives the command.

7.Factory

Command format: FACTORY#

Description: This command restores the factory default settings.

4、 Common parameter command

1.Query parameter

Command format: PARAM#

Description: This command can be used to query the current parameter settings of the device.

returned messages:

IMEI:353701093444657; (equipment serial number)

TIMER: 10,10; (current upload interval)

SOS: 18820129124,;; (current SOS number)

Center Number: 18820129124; (current center number)

Defense time: 10; (static automatic arming time)

TimeZone: E, 8, 0; (device time zone)

GPRS: ON; (GPRS status)

APN: cmnet,;; (current APN)

Server: 1, www.whatsgps.com, 6801, 0; (current platform address and port)

2. Query status query

Command format: STATUS#

Description: This command can be used to query the status of the current device.

returned messages:

External power: ON, 12.2V; (current working voltage)

GPRS: Link Up (platform connection status, Link Up means connected, Link Down means not connected)

GSM Signal Level: Strong; (GSM signal strength)

GPS: Successful positioning; (GPS state, Successful positioning means positioning, Searching means search signal, OFF means GPS sleep)

SVS Used in fix: 8 (10); (number of satellites used / number of stars)

GPS Signal Level: 14, 16, 21, 16, 18, 19, 15, 30 (satellite signal strength values)

ACC: OFF; (ACC status)

Defense: ON; (armed/disarmed state)

3. Query version

Command format: VERSION#

Description: This command returns the software

version information of the device.

4. Query latitude and longitude

Command format: WHERE#

Description: This command returns the latest latitude and longitude information of the device, for example:

Current position!Lat:

N22.577156,Lon:E113.916748,Course:0.00,Speed:0.00Km/h,Date

Time: 2019-01-08 17:35:32

5. Query latitude and longitude link

Command format URL#

Description: Returns location information based on map links, for example:

<08-16 16:30><http://maps.google.com/maps?q=N23.168629,E113.433510>

Operation

1. Switch

After the device is loaded into the SIM card, it can be powered on after power-on. If you need to restart the device, you can power off the device after powering off for 10 seconds.

2. Check location

1. Longitude and latitude location SMS query.

2. Longitude and latitude link SMS query.
3. Platform mode query location.

3、 SOS alarm

When an emergency situation occurs, press the SOS button for 3 seconds to trigger the SOS emergency help alarm. The device will send an alarm message to the service platform and send an alarm message to the SOS number. To implement an SOS alarm, preset the SOS number by referring to the common instruction list.

4、 Power Off alarm

After the device is installed, a power off alarm will occur when the power is turned off. At the initial installation, the battery power is low and there is a possibility that the alarm message will not be received. In this case, it is necessary to energize for more than 10 minutes, and wait for the internal battery to have a certain amount of power before turning off the power to issue an alarm.

5、 Vibration alarm

After the vibration alarm is turned on, the device will automatically be armed after ten minutes of inactivity. When the vibration signal is detected in the armed state, an alarm message will be sent to the service

platform and the SOS number.

6、Light sense alarm

If the device is removed after installation, the device will sense the light and send an alarm message to the service platform and SOS number to prevent illegal removal of the GPS.

7、Monitor

The monitor function requires a microphone accessory and a voice card with voice. After setting the SOS number, long press the SOS button to dial the SOS phone number. Or the SOS number can directly dial the device phone number to achieve the monitoring function.

8、cut off fuel and electricity function

The device can be remotely disconnected from the oil and electricity function by installing a relay in accordance with the requirements of this manual. The remote power off function can be operated by SMS, and can be operated by means of a platform issuing instructions. When setting up a text message, you must first set the center number. Only the center number can send commands to operate. Please refer to the common instruction list for the instruction format.

Troubleshooting

1. After the terminal is installed for the first time, it cannot connect to the background server. The background display is not online. Please check the device by referring to the following suggestions:

- 1) Check if the main power supply wiring is correct, be careful not to connect to the internal control line of the car;
- 2) Check if the SIM is installed correctly, please refer to the installation instructions;
- 3) Check if the SIM card is open for GPRS service;
- 4) Check if the parameters are correct by the PARAM# instruction;
- 5) Check if the APN configuration is correct.
- 6) Check if the vehicle is in the area covered by the mobile phone signal;
- 7) Check the status of the LED indicator when power is on. When the connection is normal, both lights are always on;

2. The equipment connection platform is normal, but the satellite positioning is abnormal. In this case, please check:

- 1) Make sure the equipment is outdoors;
- 2) Check if there is any interference source or signal

shielding device nearby;

3) Check the installation position of the equipment, so that the GPS antenna should face outwards, not facing the metal surface or wire;

4) The GPS signal will also be weakened when there are high buildings in the surrounding area. Please drive to the open space to locate.

Warranty card

Maintenance record	
Maintenance shop	
Sending date	
Fault description	
Maintenance situation	
IMEI number	
Maintenance person	

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