

GPS Tracking Device

Model NO.: M528

User Manual

Version 1.4

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**Notes:**

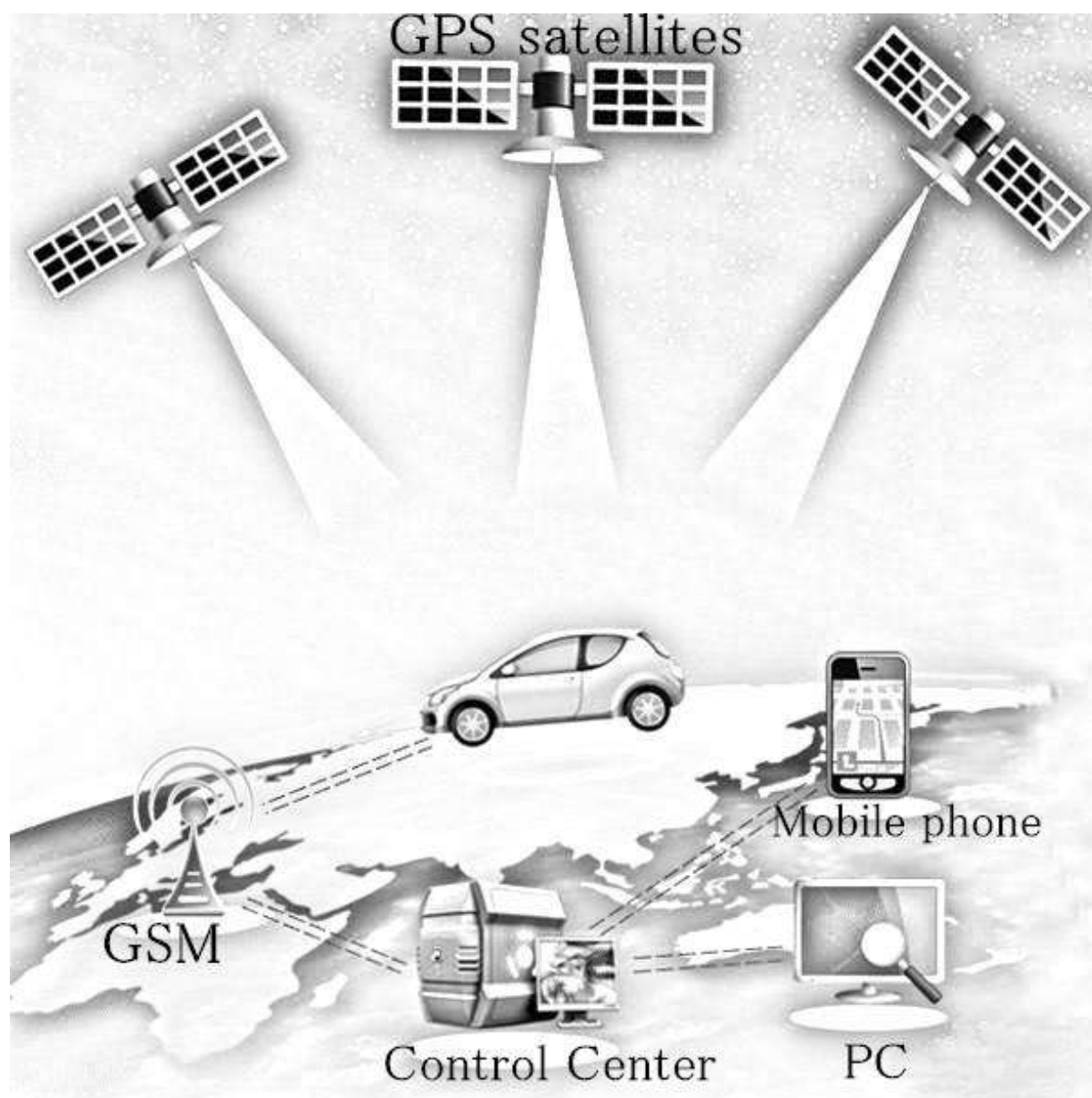
- Please mount the device steadily on the flat place before using;
- Please make sure the voltage value is right before connecting with battery, and placing the wires to where shouldn't be trodden;
- Please power off when plugging or taking out of any module or connector;
- Please keep the device dry and don't let any liquid fall into the device in case any damage caused in the device or circuit;

If any problem caused as follows, please turn to professional technician:

- When power wire, keyboard, or socket are damaged;
- When liquid infiltrating into the device;
- When the device work unusually or cannot resume to normal even operated according to the instruction;
- When the device cannot work as usual after falling, throwing or breaking;
- When there is obvious damage in the device.

1. Products Introduction

GPS Tracking device mainly consists of two parts such as GPS module and GSM module. GPS module is for getting location data from satellite, and GSM module is for transferring data to server so that people can check the information via PC or mobile phone. Our GPS Tracking device M528, with the best quality, stable performance and versatile functions, can be applied to various kind of fleet management like construction trucks, rental cars, logistics vehicles and public transportation, anti-theft system and security purpose.



2. Characteristics

- 1) Small size, easy to install;
- 2) Accurate GPS positioning, dynamic positioning deviation is less than 5 m;
- 3) GPRS and SMS tracking mode, adopt TCP communication protocol in GPRS mode;
- 4) Get current location immediately, and support real-time tracking (GPS data uploading at interval);
- 5) Two way voice with speaker and mic;
- 6) Voice monitoring;
- 7) Protect device from high level voltage;
- 8) Data can resend from signal dead zone;
- 9) Remotely disable engine;
- 10) Three digital inputs for detecting the status of engine, door, air condition, etc.;
- 11) SOS alarm, power-off alarm, over-speed alarm, parking alarm, Geo-fence alarm, fatiguedriving alarm
- 12) Mileage statistics;
- 13) Connect with Ibutton to identify drivers (optional)
- 14) Connect with fuel sensor or temperature sensor to detect fuel and temperature (optional)
- 15) Remote update firmware.

3. Specifications

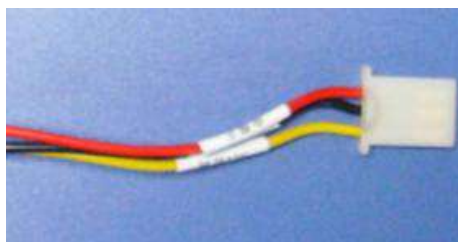
3.1、 Hardware Datasheet	
work voltage	8VDC~36VDC
work current	50mA~160mA
GSM module	Four Band: GSM 850/900/1800/1900Mhz Quectel M50
Communication protocol	UDP/TCP(can be customized)
GPS module	Ublox chipset
GPS sensitivity	-159dBm
GPS frequency	L1, 1575.42 MHz
C/A coding	1.023 MHz chip rate
Channels	20 channels examine track
Position accuracy	10 meter, 2D RMS
Speed accuracy	0.1 meter/second
Time accuracy	GPS time synchronization
Default data	WGS-84
Recover	Average 0.1 second
Hot start	Average 1 second
Warm boot	Average 38 second
Cold boot	Average 42 second
Height limit	18,000 meter (60,000 feet) max
Speed limit	515 kilometer/second (1000 knots)max

Acceleration limit	Less than 4g
3.2、Others	
Work temperature	-20°~ 70° C
Storage temperature	-30°~ 85° C
Humidity	5% ~ 95% noncondensing
Terminal size	101 mm × 50mm × 24mm
Inside battery	Continuous working no less than 4 hours
LED light	Red: Power status; yellow: GSM module state

4. Interface Description



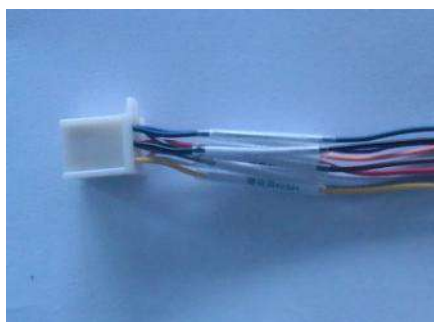
4.1 Power Interface



Description

pin	color	function explain/connection method
1	red	Power positive input, the working voltage 9VDC ~ 34VDC, connect the positive of car battery;
2	black	Power negative input, then the negative pole of vehicle battery;
3	yellow	ACC check line, connect the ACC line;

4.2 Extended interface



Description

pin	color	function explain/connection method
1	orange	Analog input for fuel or temperature sensor use
2	red	SOS alarm input, low-level triggered alarm, directly connect with the wire of SOS button
3	brown	SOS alarm indicator signal, drive LED, when alarm is triggered, the LED will be on.
4	white	HV(high-level signal detection, it is described as illegal door-open, illegal engine-start signal detection), input positive voltage to detect, which should be 5DC~input power supply, connecting with effective high-level signal wire.
5	blank	No description
6	purple	GND of SOS alarm wire
7	yellow	Relay positive input, connect with the yellow wire in relay
8	black	Relay negative input, connect with the white wire in relay
9	blue	LV(low-level signal detection).

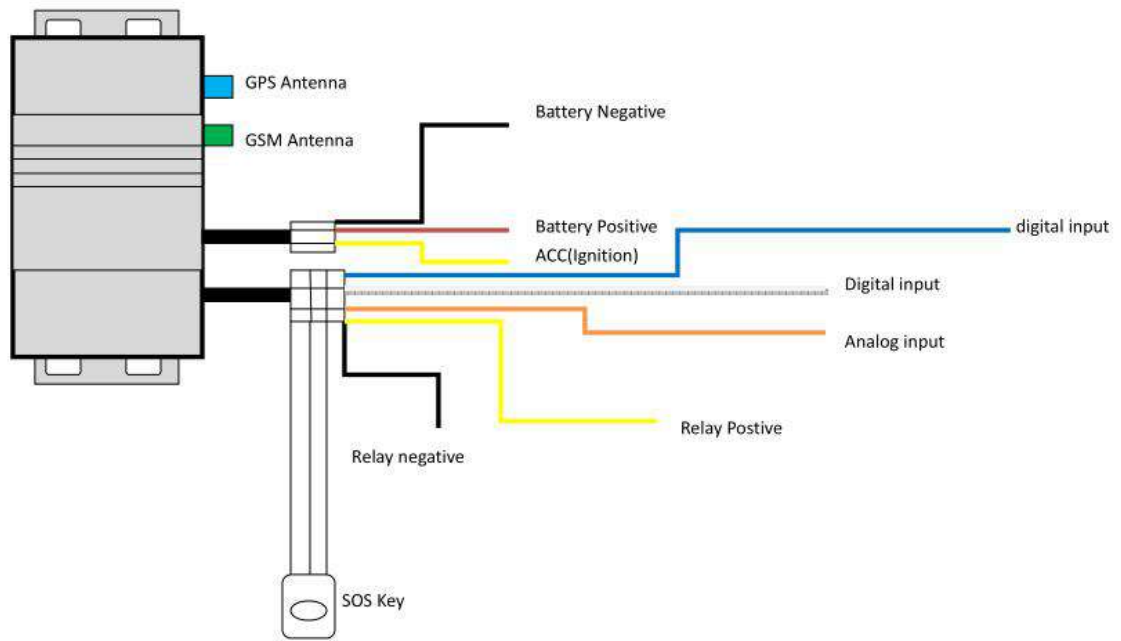
5. Installation

5.1 Warm reminder for Installation

In order to realize the full functions of this product, please read this manual carefully before starting to use the product.

1. This product can only be maintained and repaired by qualified professional service personnel. If you detach this product for maintenance or repair, your warranty will be invalidated.
2. When connecting the other devices, read carefully their instruction manuals, so as to carry out correct installation; do not connect incompatible device.
3. Please use genuine original parts and qualified batteries and peripheral equipments, so as to avoid damage to this product.
4. As this product is a high-tech product, please read carefully this manual before starting to use the product, so as to avoid inappropriate operation.
5. Drivers should not operate this product while driving a vehicle, thereby, affecting safe driving.
6. This product can work properly only when GSM communication is in good condition.
7. Please reduce electromagnetic wave interference to the product; and use it properly.
8. GPS communication is liable to be affected by environmental shielding; may fail to carry out positioning during certain circumstances. It will resume the positioning function as soon as it leaves the shielding environment. This is normal. Please do not worry when encountering such problem.
9. Each signal sent out from the system will be confirmed for successful transmission in the base station of the mobile operator. However, if system stoppage occurs or if the mobile telephone is preset to a switch off state by the customer, it cannot ensure successful transmission.
10. For safety reason, do not tell the other people your device SIM number, without taking precautions. Otherwise, your privacy may be compromised along with other safety problem.

5.2 Wiring diagram



5.3 Web based tracking online activation

5.3.1 Open website www.overseetracking.com and login with the user & password that created by Rope


5.3.2 Click **Information Management**

5.3.3 Click **Vehicle Tracker List** and you will see all your vehicles are listed there. Please note, to add more devices, please contact your sales.

Please check the **Tracker Status**, if it is **Unactivated**, please click **Activate**. If it is **Activated**, please click **Edit**.

Plate Number/Name	Tracker Model	Tracker Information	Installed Accessories	My Service Expiring Date	Sub-user's Service Expiring Date	Vehicle Owner	Tracker Status	Operation
	DJ808	ID: 13000000167 IMEI: 094027849470 Phone number:					Unactivated	
 M-23 UAQ 246K	DJ808	ID: 13000000150 IMEI: 011603707330 Phone number: +25619666820195	 RL12: 12V Relay  Mic-Rope: Mic-phone		2019-07-24	Stephen Kibuuka Tel:	Activated 2018-09-08 06:03:18	 
 Unknown	DJ808	ID: 13000000169 IMEI: 011752301171 Phone number: +25611752301171	 RL12: 12V Relay  Mic-Rope: Mic-phone				Activated	 
 H 10	DJ808	ID: 13000000166 IMEI: 011752301172 Phone number: +25611752301172	 RL12: 12V Relay  Mic-Rope: Mic-phone		2019-07-24		Activated 2018-09-08 06:04:00	 

5.3.4 Click **Activate**, please fill in the blanks marked with red *. You also can fill in other blanks to complete the device information.



Use Default Icon

Belongs to Group

Plate Number/Name*

Country*

Vehicle Type*

Login Password via Plate Number/Name

Purchasing Date

Vehicle Brand

Starting Mileage

Manufacturer Official Fuel Consumption(L/100Km)

Owner Name

Mobile of Owner

5.3.5 Click **Next Step** and fill in the requested blanks.

Installed Tracker Information

Please complete the blanks with "*" behind.

Tracker Model* IMEI of Tracker*

Inserted SIM Card's Phone Number* Phone number

Time Zone* Installation Date

Please select installed accessories:

 Digit Input for SOS

 Digit Output for Engine

 Mic-phone Portal

5.3.6 Click **Next Step** to fill in sim card APN information. Please select the telecom name, if the telecom is not listed there, please click **Enter Telecom Name** to fill in the sim card telecom name.

SIM Card Operator Information

System can not get the APN information , Please enter the SIM card APN information, so the system can generate the correct configuration SMS for you. Please complete the blanks with "*" behind,*(If the APN contains username and password, please enter them too)

Telecom Name* [Enter Telecom Name](#)

APN*

APN Username

APN Password

5.3.7 Click **Next Step**, OVERSEE gives the configuration SMS to you. Please copy it and send it to



the gps device, after you receive reply from the gps device, it should be online.

Tracker Activation

The information has been saved successfully. Please send these SMS commands below one by one to the tracker; if configure successfully, the tracker will show online in tracking map.

SS,example,eg,eg,at1.trackurcar.com,7000,13000000157,123456



5.3.8 Click **Finish--Tracking Map** to see if the gps device is online or not.

6. Standard Accessories

Power Wires, GPS Antenna, GPRS Antenna, Magic Tape, Warranty Card, Warranty card receipt, Certification



7. Optional accessories

7.1 Taping Earphone and Mic



7.2 Relay



7.3 Ibutton



7.4 Fuel sensor



7.5 Temperature sensor

