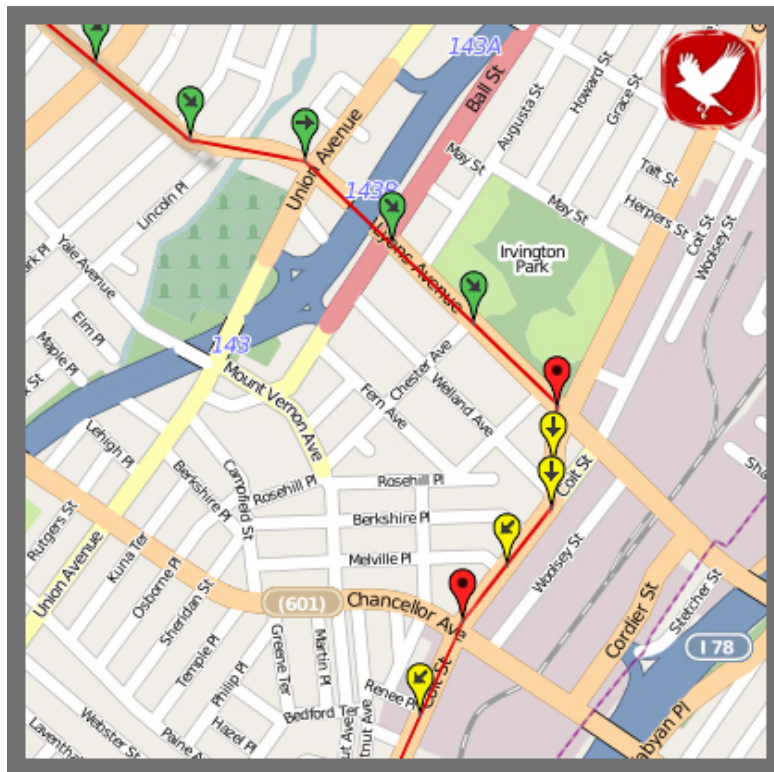


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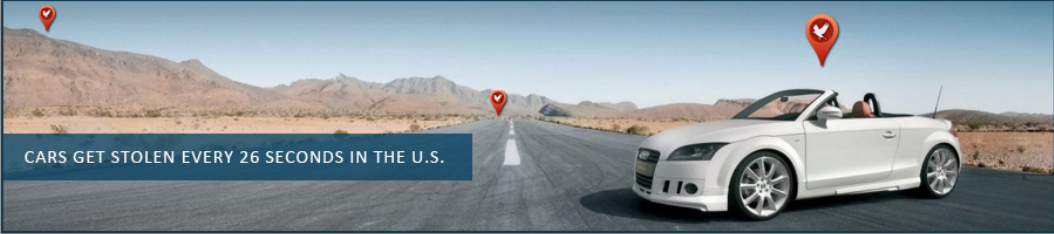
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- HOME -

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Home



CARS GET STOLEN EVERY 26 SECONDS IN THE U.S.

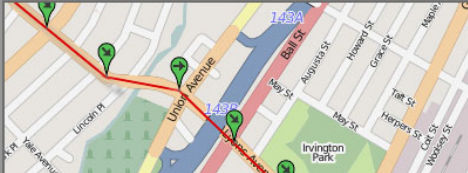
12345

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Our website provides FREE, real-time GPS tracking service for anyone around the world. With our help, you can easily track your company's fleet, vehicles, or you can protect your loved ones and valuables. We are constantly working on unique methods that aim to enable anyone to install and setup a tracking device within a few minutes. Our service is completely free even if you did not buy your GPS device from us. If you do not have any theoretical or practical experience about the operation of tracking devices, please look at our „Beginners' Guide“ which is a short and simple summary of the most important information. To download it, click [HERE](#).

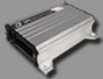
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TK102-2	MVT380	FM2200	VT310

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QUICK SETUP GUIDE

TK103-2

(...or other models look the same...)

IMPORTANT NOTES!

Place the SIM card to a cellphone and please check these few things:

SIM card has not run out of credit

SIM PIN code request is disabled

Caller ID display is turned on

After you make sure the steps above are successfully completed,
insert the SIM card to your GPS tracker and check the next page.

CONFIGURATION WITH SMS OR DATA CABLE

1.) CONFIGURE WITH SMS COMMANDS:

Turn ON your GPS tracker and follow these steps carefully. Send all SMS commands to the tracker correctly:

No.	Command	Info
1st	begin123456	resets all settings to factory default
2nd	apn123456 xyz	sets the required APN for GPRS configuration ¹
3rd	apnuser123456 xyz	sets the USER NAME for GPRS configuration (optional) ^{1,2}
4th	apnpasswd123456 xyz	sets the PASSWORD for GPRS configuration (optional) ^{1,2}
5th	adminip123456 54.247.113.85 31200	sets our server's IP address and Port number
6th	t030s***n123456	sets the report time interval to 30 seconds ³

- 1 The "**xyz**" depends on your mobile phone company, for more information ask your SIM supplier or check their website!
- 2 Do not send this messages if you don't need USER NAME and PASSWORD for the GPRS connection!
- 3 The report interval must NOT be less than 5s for TK103-2 and not less then 30s for model TK103
- 4 "123456" is the default password, if you changed you need to use your chosen one
- 5 Do not forget to use "spaces" in the commands!

----- OR -----

2.) CONFIGURE WITH PC AND USB DATA CABLE:

Connect the tracker:

- 1.) Install the **Prolific USB Driver** downloaded from our website
- 2.) **Connect the serial cable** to the PC
- 3.) Open the Windows „**Device Manager**”
- 4.) Check the **COM port number** at „Ports (COM & LTP)”
- 5.) Run the „**Access Port**” software downloaded from our website
- 6.) Setup the right COM port number at „**Tools / Configuration**,” menu and click „**OK**”
- 7.) Connect the serial cable's **longer lead** to the GPS tracker
- 8.) **Power ON** the GPS tracker with the ON/OFF button
- 9.) When you see the "**AT+CREG?**" text in the "AccessPort" software enter the commands below:

Click to "**Send**" button after each command!

No.	Command	Info
1st	begin123456	resets all settings to factory default
2nd	apn123456 xyz	sets the required APN for GPRS configuration ¹
3rd	apnuser123456 xyz	sets the USER NAME for GPRS configuration (optional) ^{1,2}
4th	apnpasswd123456 xyz	sets the PASSWORD for GPRS configuration (optional) ^{1,2}
5th	adminip123456 54.247.113.85 31200	sets our server's IP address and Port number
6th	t030s***n123456	sets the report time interval to 30 seconds ³
7th	save123456	save all settings

- 1 The "**xyz**" depends on your mobile phone company, for more information ask your SIM supplier or check their website!
- 2 Do not send this messages if you don't need USER NAME and PASSWORD for the GPRS connection!
- 3 The report interval must NOT be less than 5s for TK103-2 and not less then 30s for model TK103
- 4 "123456" is the default password, if you changed you need to use your chosen one
- 5 Do not forget to use "spaces" in the commands!

Disconnect the tracker:

- 10.) Click on the "**Serial Port Switch**" button if you finished the setup
- 11.) **Remove the serial cable** from the GPS device
- 12.) After you removed, the tracker **starts to send data** to our server automatically

13.)Remove the serial cable from the PC

LIST OF ALL COMMANDS

(Some of these commands are not supported by TK103 and TK103-2.)

FUNCTION	COMMANDS	EXAMPLE
Password modification	password+old password+space+new password	password123456 666888
P.S:the password should be 6 digitals		
Authorization	admin+password+space+cellphone number	admin123456 13311112222
P.S:there are 4 other numbers can set as the masters,use the same way to set them.		
IP and Port Setting	adminip+password+space+IP address+space+port	adminip123456 192.167.1.1 8899
P.S:When you need the tracker has the way of GPRS transferring,this is the necessary setting.		
APN setting	APN+password+space+the user's APN	APN123456 internet
P.S:When you need the tracker has the way of GPRS transferring,this is the necessary setting.And APN refers to the GSM card's APN.		
APN user name setting	Apnuser+password+space+apn's username	apnuser123456 come
P.S:If the APN has user name,this is the command to setting this.		
APN password setting	Apnpasswd+password+space+apn's password	apnpasswd123456 cmet
P.S:If the APN has password,this is the command to setting this.		
Interval tracking	t030s005n+password	t030s005n123456
P.S:T=time,s=second,m=minutes,h=hour,n=times,t030s005n123456 means track 5 times for 30s interval, "***" means countless times.And the minimum interval time is 5 seconds(new vesion tracker),30 seconds(old vesion),the maximum times is 250 times.		
Tracking mode	tracker+password	tracker123456
P.S:If you need switch the other modes to tracking mode,you need send this commands.		
Track once	tracking one / or call the tracker once	tracking one
P.S:If you want to have the tracker only report once,send tracking one to the tracker,or call the tracker once.		
Listen in mode	monitor+password	monitor123456
P.S:If you need switch the other modes to listen in,you need send this commands. When you use the tracker first time,call the tracker,tracker reports you the coordinates,send monitor123456,call the tracker you will hear what happen around the tracker.		
Geofence	stockade+password+space+longitude, latitude;longitude,latitude	stockade123456 22.567185,114.051248 ; 22.555666, 114.777888
P.S:Send this sms command to the tracker,then if the tracker run out the area you have set,it will send "stockade"with the location to you.		
Movement Alert	move+password	move123456
P.S:The tracker will move 500m at least,or you cannot get this alert."move with the location"		
Overspeed Alert	speed+password+space+080	speed123456 080
P.S:The unit of the speed is km which is the original data from the GPS,and if the speed less then 30km/h,you won't get the alert "speed+location"		
Low battery Alert	no needing to set up	No needing to set up
P.S:When the back up battery is less than 3.7V,it will send " L".		
Initialization	begin+password	begin123456
P.S"To cancel all the settings,you need this commands,but if you forget the password,you need update the firmare.		
IMEI Checking	imei+password	imei123456
P.S:If you want to know the IMEI number of the tracker,you need this command.		
SOS	no needing to set up	No need to set up
P.S:When someone press the SOS,you will get the information of 'help me with the coordinates".		
Ignition alert	fortify+password	fortify123456
P.S:Only for the vehicle tracker,there are two wires connect the ACC(ignition),if you send "fortify123456",then anyone switch on the vehicle,it will send alert.		
Ignition Status checking	fortified+password	fortified123456
P.S:If you want to make sure that the tracker in under this function,send this commands,and tracker will reply you.		
Main power losing alert	no needing to set up	No need to set up
P.S:If the main power is losing,the tracker will send "battery".		
Time zone setting	Time zone+password+space+GMT time	Time zone123456 2
P.S:"UK time is time zone123456 1"currently.		
Individual Website setting	Home+pasword+space+the user's website	home123456 www.tracker.com
P.S:If "tracker" wants make the returned sms has their domain name,they can set "home123456 www.tracker.com".		
Relay on/off (stop engine)	Powercar+password+space+1 (or 0)	Powercar123456 1
P.S:Only the vehicle tracker has this function,"powercar123456 1/0" 1=on,0=off		
Shake Alert(with the motion sensor)	shake+password+space 1-10	shake1234656 1
P.S:Only the new version tracker has this function,from 0-10,means from shake heavily to softly,1 means the heaviest,10 means the softest.0=off		
Read SD card	Readsd+password+space+1	readsd123456 1
P.S:Only the new version tracker has this function,where there is not GPRS connection,tracker records the information into the SD card and when there comes the GPRS connection,tracker sends all the information to the server.1=on,0=off.		
SMS report	smslinkone+password	smslinkone123456
Send report in SMS (it's working during the gprs communication too...)		
Restart tracker	restart+password	restart123456
P.S:This command is restart the tracker.		

GPS VEHICLE TRACKER USER MANUAL



Preface

Thank you for purchasing GPS Vehicle Tracker. This manual shows how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

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1 Summary

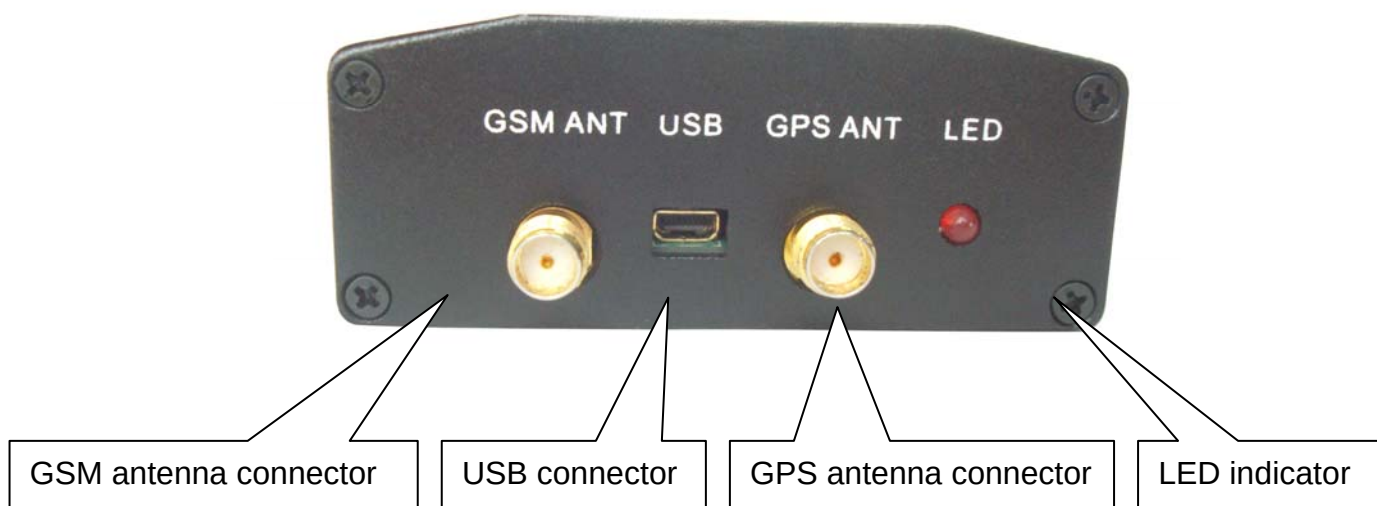
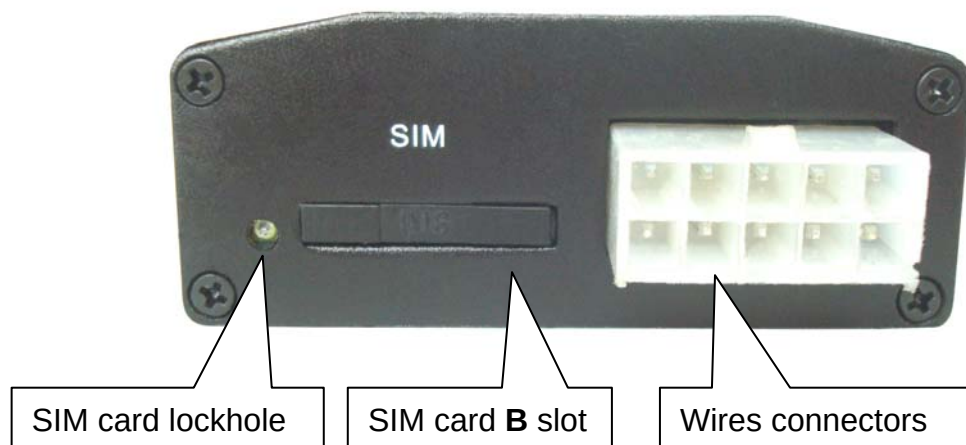
Working based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or GPRS, and guard against theft of Vehicle.

2 Applications

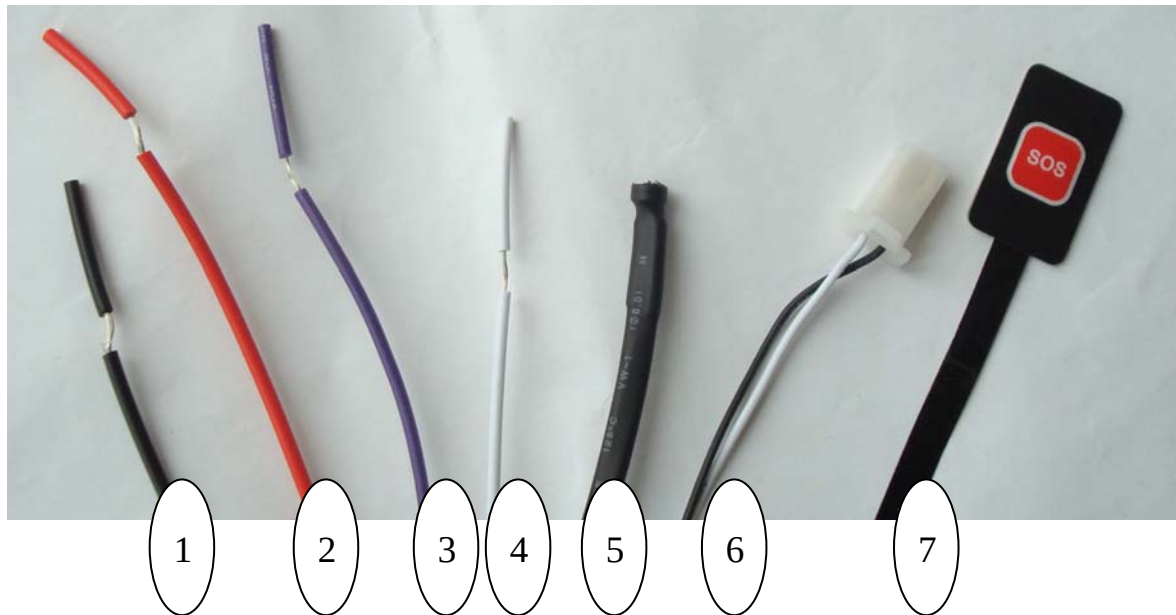
- Rental vehicle / Fleet management etc
- Covert tracking

3 Hardware Description

3.1 Connectors

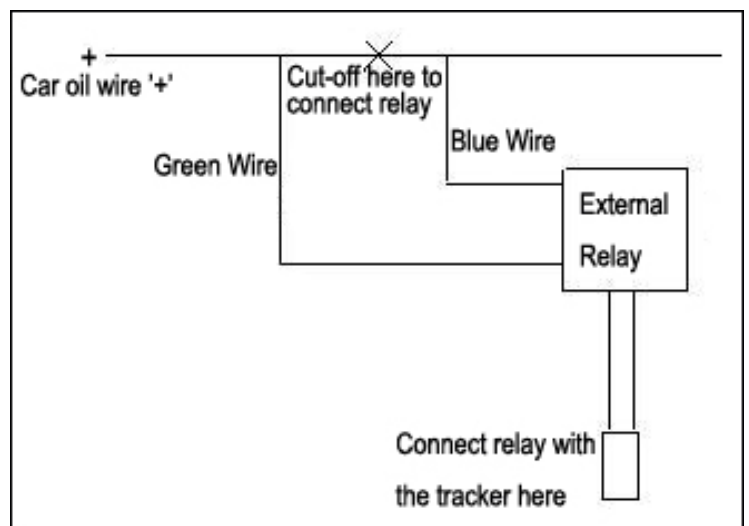
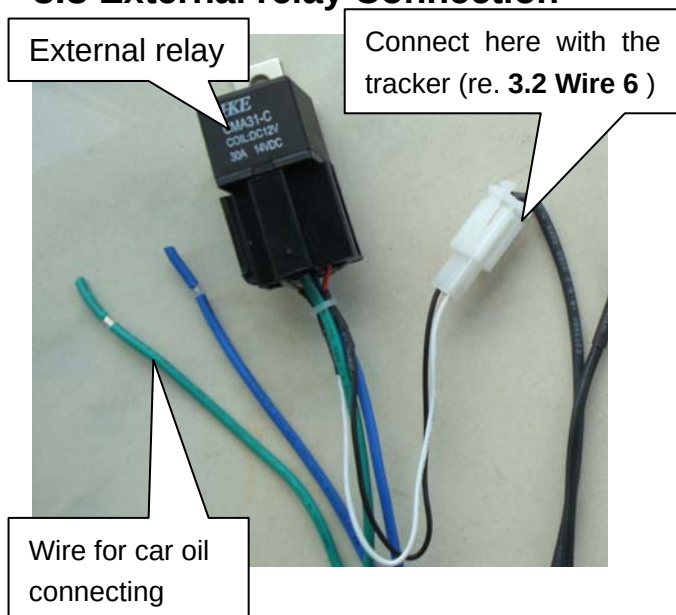


3.2 Wires Connection

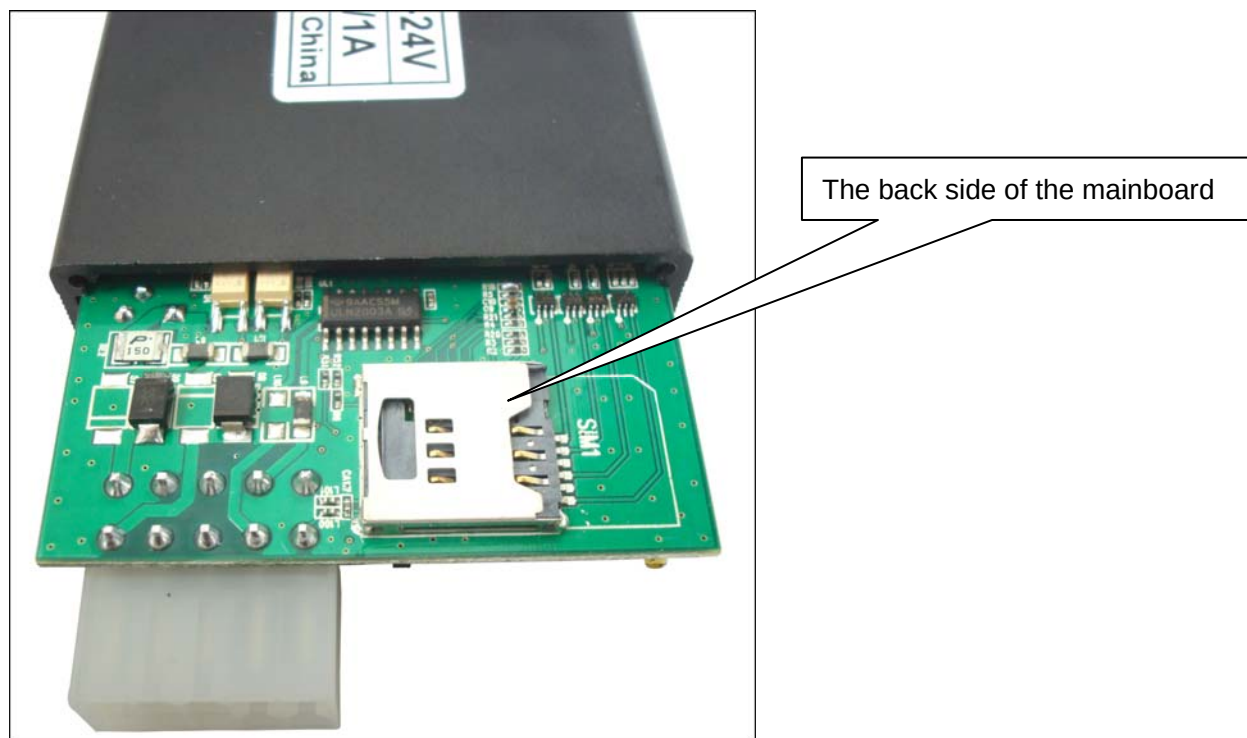


1. Black wire:-12V;
2. Red wire:+12V;
3. Purple wire:ACC;
- 4.White wire:connecting guard against theft implement(reserve-wire,it can be connected or not.)
- 5.Microphone
- 6.External-relay connector
- 7.SOS button

3.3 External relay Connection



3.4 Interior



4 Specification.

Content	Specs.
Dimension.	80mm x 60mm x 25mm
Weight	100g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz or 900/1800/1900Mhz
GPS chip	SIRF3 chip
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	Reacquisition 0.1s Cold status 45s Warm status 35s Hot status 1s
Car charger	12—24V input 5V output
Battery	Chargeable changeable 3.7V 1100mAh Li-ion battery
Standby	50hours
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

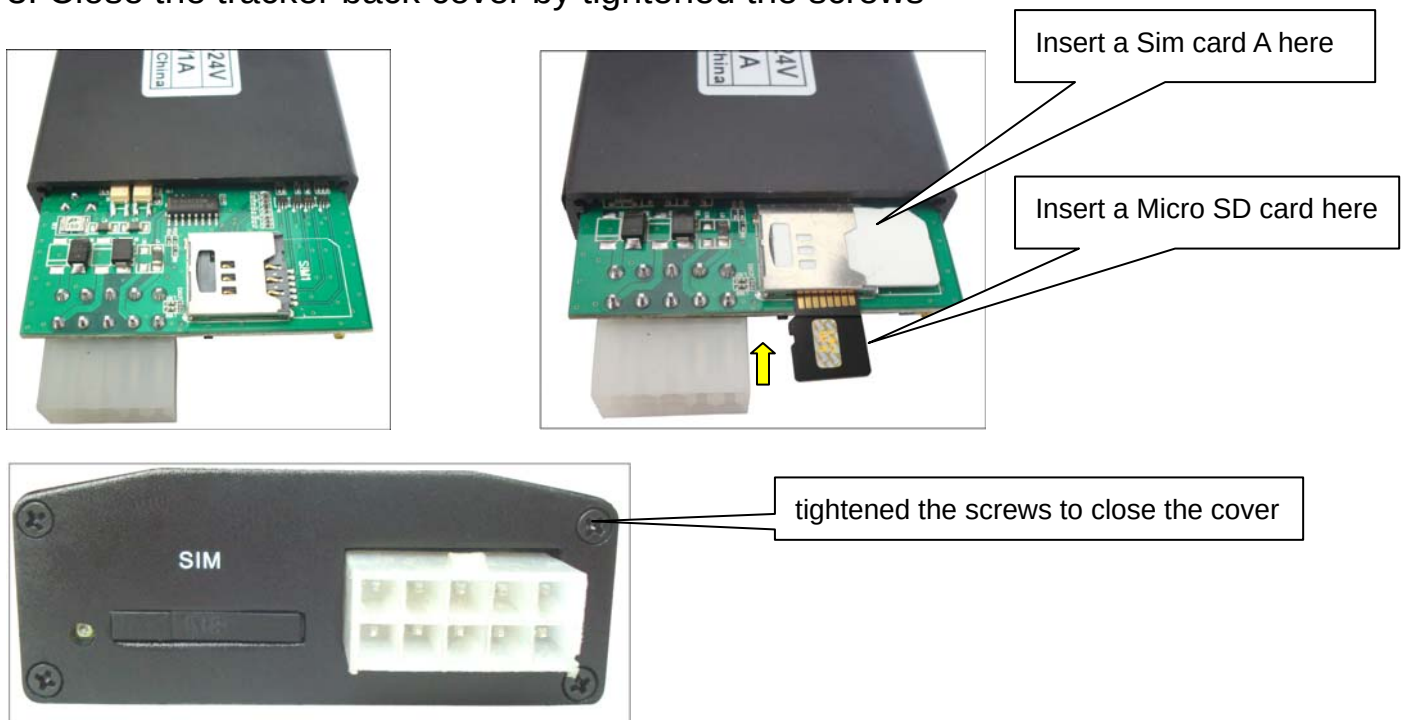
5 SIM card installation

Make sure that there is **no call transfer** and **call display is on**, and **PIN code off**.

Steps:

Install SIM card A:

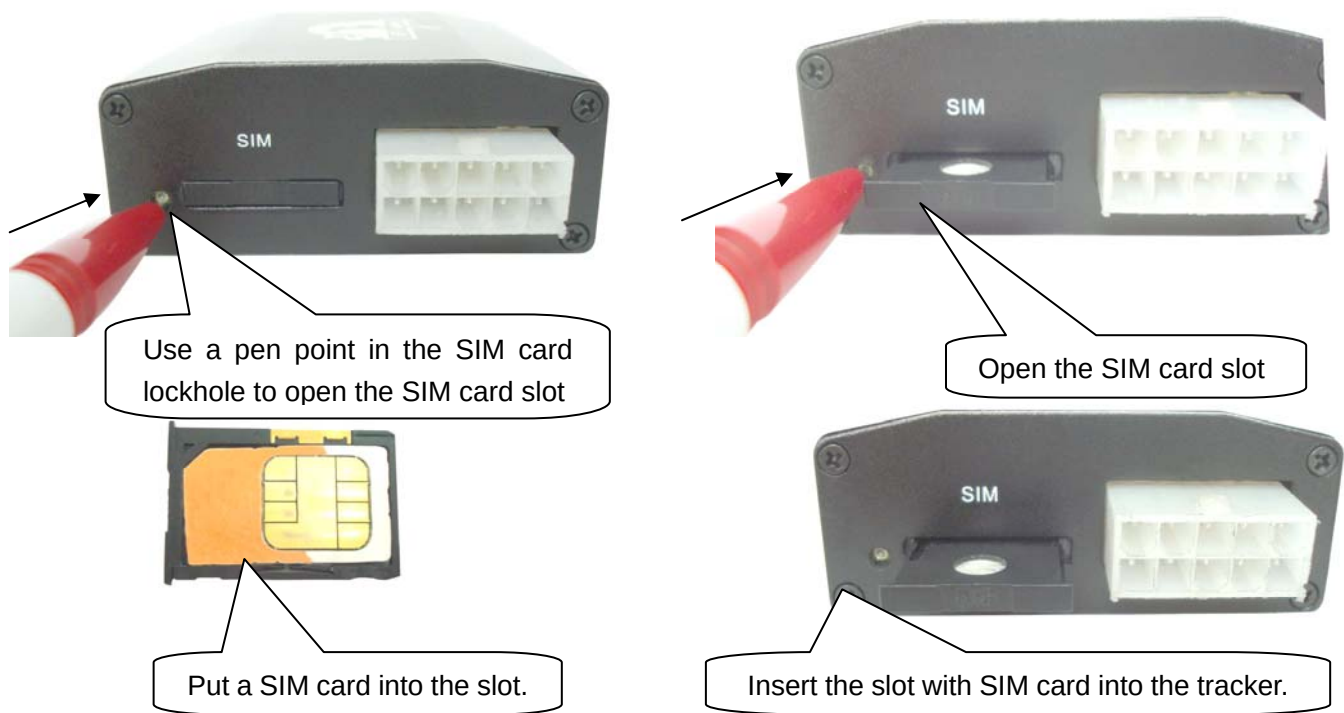
- 1 Open the tracker rear cover, take out the mainboard, and put SIM card A into the holder.
- 2 Put in a SD card beside the SIM card A (at the back side of the mainboard).
3. Close the tracker back cover by tightened the screws



Install SIM card B:

1. Use a pen to open the SIM card B slot
2. Put a SIM card B into the slot.
3. Insert the slot with SIM card into the tracker.

NOTE: If you only use one sim card, then the sim card must be insert into the sim card B slot, but not the sim card A slot on the mainboard.



6 Startup

- Put the SIM card,SD card and battery in place. (NOTE:The tracker turns on automatically while the sim card slot B be inserted,and the tracker turns off automatically while the sim card slot B take out.)
- After connecting the wires with the tracker and the car,then you can see the LED indicator flashes red arounds the wires connector(re.**3.1 wires connector**)
- In 40-60 seconds, the unit will start to work and receive the GSM signals as well as the GPS signals. The indicator keep flashing every 1 second when the unit has received the signals.When this unit receives GPS signals normally, you can use it and do all the following settings.

7 Usage

The tracker has three working modes: Fortifying mode, Tracking mode and Monitoring mode. Modes switch between “fortifying”, “ tracking” and “monitoring”.

When power on the tracker, the default mode is “Fortifying” mode, you can send

“tracker+password” to switch to tracking mode, or send “monitor+password” to switch to monitoring mode, or “fortify+password” back to fortifying mode.

8 Fortifying Mode

When turn on the tracker, the default mode is Fortify mode. In fortifying mode, you can call the tracker to activate the “protection” for your loved car or vehicle. The indicator will flash every 4 seconds when the “protection “ is activated.

While the “protection” will be deactivated when you dial up the tracker again, the indicator will flash every 1 second when the deactivation is done.

Remark: If ACC is connected, then you can not activate the “protection” for your car. The tracker will be triggered to send an alert under one of following conditions:

8.1 Engine Started Alert

In fortifying mode, the tracker will start the ACC examine automatically. It will warn up the user when the engine is started.

Alert SMS format: fortify! + lat./long.

It will keep sending such an alert every 3 minutes, you can send “fortify123456” to stop it.

8.2 Movement Alert

This function is using for the owner to get an alert when the tracker moves out of a restricted district (500m radius),

Response SMS format: moved!+lat./long..

It will keep sending such an alert every 3 minutes, you can send “fortify123456” to stop it.

8.3 Power Cutoff Alert

In this mode, the tracker will warn up the user automatically when the main power is cut off unwontedly, such as if someone cut the wire connected the car with the device, it will alert "Battery with coordinates".

Alert SMS format: battery! + lat./long.

It will keep sending such an alert every 3 minutes, you can send "fortify123456" to stop it.

NOTE: These three alerts only occurred when the " protection " is activated in fortifying mode.

8.4 Application in the Car Alarm System

If your car is equipped with a car alarm system, you can connect the white wire(re. **3.2 wire4**) to the positive wire of microphone on the car alarm. The authorized number will receive an alert if the car alarm sounds more than 10 seconds.

Alert SMS format:

lat: 22.567835N long: 114.051397E speed: 000.0 23/12/09 01:55 F:4.22V,1,
Signal:F Trigger imei:356895033307722 06 57.2

8.5 Checking the Working Status (fortify or no fortify)

You can send SMS command "fortified123456" to tracker, it will report " fortifying " or " no fortify " to you.

Reply "no fortify" means out of Fortifying mode, Reply "fortifying" means under Fortifying mode.

When the tracker is in tracking mode or monitoring mode, send a SMS command

"fortify123456" to switch to the "Fortifying mode", under fortifying mode, make a call to activate the protection of your loved ones or car

9 Tracking Mode

9.1 Initialization

Send SMS "begin+password" to the unit, it will reply "begin ok" and initialize all the settings. (default password: 123456)

9.2 Change the Password

Send SMS password+old password+space+new password to change the password. (default password: 123456)

Remark:

9.2.1 Be sure keep the new password in mind, you have to upload the software to restore the original setting in case of losing the new password.

9.2.2 Make sure the new password is in 6 digits, or else the tracker can not recognize the password.

9.3 Authorization

There are only 5 numbers able to be authorized numbers.

9.3.1 Setup: Send SMS admin+password+space+cell phone number to set up the first authorized number. The other authorized numbers should be setup by the first authorized number. If the number is successfully authorized, the unit will reply SMS as "admin ok!".

9.3.2 Cancel: Send SMS noadmin+password+space+authorized number to delete the authorized number.

9.3.3 For roaming purpose, you have to add your country code ahead of the cell phone number, for example, please send admin123456 008613322221111 to tracker to set 13322221111 as an authorized number.

9.3.4 When an authorized number dials up the unit, it will hang up and report a real-time Geo-info as below:

Lat: 22.566901 long: 114.051258 speed: 0.00 14/08/09 06.54 F:3.85V,1,Signal:F help me imei:354776031555474 05 43.5 460 01 2533 720B

Lat: 22.566901 long: 114.051258==Coordinate

0.00 == speed

14/08/09 06.54== Date&Time

F:3.85V == battery power

1 == charging 0 means no charging

Signal:F == Full GPS signal 0 means weak GPS signal

help me == the SOS message, this section is blank for tracking message

354776031555474== IMEI

05=Means you get 5 GPS fix (from 3 to 10)

43.5=Altitude

460 = MCC Mobile Country Code

01 == MNC Mobile Network Code

2533= LAC Location area code

720B= Cell ID

(Remark:GSM ID can be add or delete according to customer's requirement)

9.4 Auto-Track

This function is using for the user to receive SMS with Geo-info in a certain time.

9.4.1 Set up: Send SMS t030s005n+password to the unit, it will report the Geo-info at 30s intervals for 5 times.(s: second, m: minute, h: hour).You will receive a reply as “t030s005n OK” if the setting is successful.The setting must be in 3 digits and at maximum 255 in value.

9.4.2 Send SMS t030s***n+password to the unit, it will reply SMS heaps of times. You will receive a reply as “t030s***n ok” if the setting is successful.

9.4.3 Cancel: Send notn+password to delete the “ auto track “.

Remark: the interval must not be less than 30s.

9.5 Geo-fence

Set up a geo-fence for the unit to restrict its movement within a district. The unit will send message to the authorized numbers when it moves out of this district.

Notes: This function will be invalid if the unit moves outside the district. You need to re-set it if you want this function again.

9.5.1 Setup:Send SMS stockade+password+space+latitude,longitude;latitude,longitude to the unit to set the restricted district.

Remark :The first latitude&longitude is coordinate of the top left corner of the Geo-fence, while the second latitude&longitude is the coordinate of the bottom right corner.

9.5.2 Cancel:Send SMS nostockade+password to deactivate this function..

9.5.3 Response SMS format: stockade!+geo-info. It will alarm one time in each setting.

9.6 Movement Alert

This function is using for the owner to get alarm when the tracker moves out of a restricted district.

9.6.1 Setup: Send SMS move+password to the unit to set the movement alert.

9.6.2 Cancel: Send SMS nomove+password to deactivate the movement alert.

This function will be out of effect after the unit moves outside the district.

Response SMS format: move!+geo-info. It will alarm one time in each setting.

9.7 Overspeed Alert:

This function is using for the owner to control the target's speed.

9.7.1 Setup: Send SMS speed+password+space+080 to the unit (suppose the speed is 80km/h), and it will reply "speed ok!". When the target moves exceeding 80 km/h, the unit will send SMS speed+080!+Geo-info to the authorized numbers. It will keep sending such an alert every 3 minutes.

9.7.2 Cancel: Send SMS nospeed+password to deactivate the overspeed alert

Remark: It is recommended that the speed alarm is set at not less than 50km/h. For below that rate, it may cause the excursion of the GPS signal influenced by clouds etc.

Response SMS format: speed+080!+Geo-info (suppose the speed is 80km/h).

The tracker will check the speed in 3 minutes interval and alarm if it is overspeed.

9.8 IMEI Checking:

Send SMS imei+password to the unit to check the IMEI number of the unit.

9.9 SOS Button

Press the SOS for 3 second, it will send "help me !+ Geo-info" to all the authorized numbers every 3 minutes. It will stop sending such a SMS when one of the authorized number reply SMS "help me!" to the tracker.

9.10 Low Battery Alert

It begins to send SMS to the user every 30minutes when the the battery voltage is lower than 3.7V.

SMS format: low battery+Geo-info.

9.11 SMS Center (or appointed number)

9.11.1 Setup: Send SMS adminsms+password+space+cell phone number to setup the SMS center.

If the SMS center is set up, when an authorized number sends SMS or makes a call to the tracker, the tracker will reply a SMS with Geo-info & authorized number to SMS center.

9.11.2 Cancel: Send SMS noadminsms+password to cancel the SMS center.

Response SMS format: authorized number+Geo-info

Note:

◆The SMS message must in Text format, can't be identified for PDU format.

◆Power on the tracker outdoor when use the tracker for the first time, it can search the GPS signal nearby, it also greatly shorten the time of searching the GPS signal for the future use.

9.12 GSM ID (this function can be add or delete for customization.)

There is GSM ID in each SMS from the tracker. The location of the tracker can be found according to the GSM ID in case of no GPS signal. GSM ID is make up of MCC(Mobile Country Code),MNC(Mobile Network Code),LAC(Location area code) and Cell ID.(refer to **9.3.4**)

9.13 Motion Sensor (this function can be add or delect for customization.)

This function is using for the user to get alarm info when someone touchs the unit.

9.13.1 Setup: Send shake+password+space+1-10 to the tracker to set up this function.(1-10 means the level of intensity)

9.13.2 Send SMS shake+password+space+1 is the lightest level of intensity.the tracker will send alert if someone touchs the unit heavily.

9.13.3 Send SMS shake+password+space+10 is the strongest level of intensity.the tracker will send alert if someone touchs the unit slightly.

9.13.4 Cancel: Send SMS shake+password+space+0 to remove this function.

9.14 SD Card Function

A mini SD card can be put in the tracker's SD card slot. The GPRS data can be saved in the SD card if GPRS is off. It will send data to the GPRS server again if GPRS is on.

9.14.1 Setup: Send SMS sdlog123456 1 to the tracker to activate the function of storing data in SD card;

Cancel: Send SMS sdlog+password+0 to the tracker to deactivate the function of storing data in SD card.

9.14.2 Setup: Send SMS readsd+password+space+1 to ask the tracker to send data in the SD card to the GPRS server.

Cancel: Send SMS readsd+password+space+0 to ask the tracker to stop sending data in the SD card to the server.

9.15 SIMcard A-B Transformation

9.15.1 If you insert two cards into the tracker,Sim card A and B are not working at the same time,the default working status is sim card B,but they can be transform each other

by hand.

When the sim card B is working,send SMS command selectsim+password+space+a to the sim card B,one minutes later,the sim card A starts to works while sim card B stop working,if you send SMS command selectsim+password+space+b to the sim card A,one minutes later,the sim card B will start to work again instead of sim card A.

9.15.2 If you insert two cards into the tracker,and one of the sim cards has no GSM signal,then the tracker will work with the other automatically.

10 Monitoring Mode(voice surveillance mode)

Send SMS monitor+password, the response from the tracker is “monitor ok” then you can hear the voice around the tracker after your call。

11 Remote Oil&Electricity Cut-off Function

This function is using for the car owner to send a SMS remotely to stop a moving vehicle.

11.1 Setup: Send SMS command powercar123456 00 to the tracker to cut off the oil and electricity of the car to stop the car.

Reply format: powercar ok. You will receive such a reply if the setting is successful.

11.2 Cancel: Send SMS command powercar123456 11 to the tracker to restart the car again.

Reply format: powercar ok. You will receive such a reply if the setting is successful.

12 GPRS Setting

In order to use GPRS function, the user needs to set IP, Port and APN (access point name) by either cell phone, or our PC software.

(NOTE: Some countries or regions should set APN's User Name and APN's

Password.)

12.1 Set an IP address and port:

Setup: Send SMS adminip+123456+space+IP address+space+port.

If setup successful, the tracker will reply SMS “adminip ok”

Cancel: Send SMS noadminip+123456

12.2 Set APN

Setup: Send SMS apn+123456+space+specify apn content.

If setup successful, the tracker will reply SMS “APN ok”.

Cancel: The old APN will be invalid automatically when a new APN is set.

12.3 Set APN's User Name

Setup: Send SMS apnuser+123456+space+the APN's user name.

If setup successful, the tracker will reply SMS “apnuser ok”.

Cancel: The old APN user name will be invalid automatically when a new APN user name is set.

12.4 Set APN's Password

Setup: Send SMS apnpasswd+123456+space+the APN's password.

If setup successful, the tracker will reply SMS “apnpasswd ok”.

Cancel: The old APN password will be invalid automatically when a new APN password is set.

12.5 GPRS transport protocols

As soon as the IP & Port & APN are set up, the user can make a call or send SMS to tracker. The tracker will hand up and report the coordinates to IP address.

The message format sent by tracker to IP address is as following:

Serial number + authorized number + GPRMC + GPS signal indicator + command + IMEI number + CRC16 checksum.

For example:

090907070718,13145826175,GPRMC,070718.000,A,2234.0228,N,11403.0764,E,0.00
,,070909,,,A*73,F,,imei:354776030042714,05,50.1,F:4.11V,0,132,40512,460,01,2533,7
20B

090907070718== serial number(date&time)

13145826175=== authorized number

GPRMC,070718.000,A,2234.0228,N,11403.0764,E,0.00,,070909,,,A*73,==GPS

module's Original GPRMC sentences

F=== Full GPS signal L=== No GPS signal

imei:354776030042714==the tracker's IMEI number

05===get 5 GPS number

50.1=== Altitude

F:4.11V===Full battery power L:3.65V===Low battery power

0===No charging 1===charging

132=== The length of the GPRS string

40512===CRC16 Checksum

460===460 = MCC Mobile Country Code

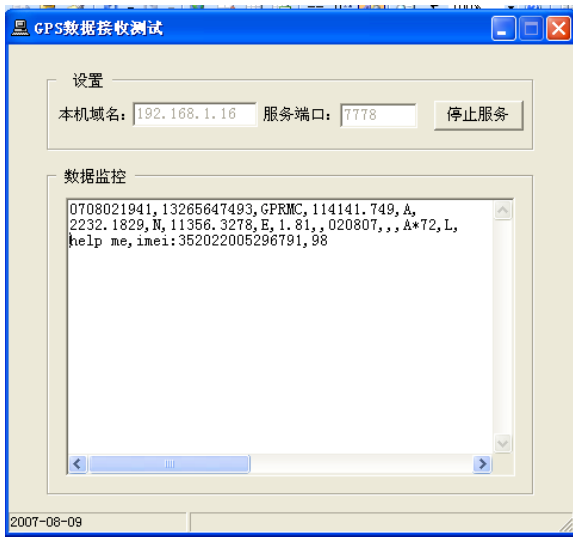
01==MNC Mobile Network Code

2533==2533= LAC Location area code

720C==720B= Cell ID

(NOTE:GSM ID can be add or delect accroding to customer;s requirement.)

For example, it will send GPS coordinates as below illustrated



Notes:

- ◆ Our gprs supports TCP or UDP protocol, so please confirm whether your GPRS webserver supports TCP or UDP protocol before having the order.
- ◆ Please use the SIM card which is with GPRS function.
- ◆ Pls use the following SMS to set up GMT time in the SMS for the tracker
time zone+password+space+ the customer's GMT TIME
- ◆ Pls use the following SMS to set up YOUR website in the SMS for the tracker
home+password+space+ the customer's WEBSITE
home+password+space+space (if there is no website in the SMS)

13 Cautions

Please comply with the instructions to extend the unit life:

1. Keep the unit dry. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.
2. Don't use & store the unit in dusty places.
3. Don't put the unit in overheated or overcooled places.
4. Handle carefully. Don't vibrate or shake it violently.
5. Clear the unit with a piece of dry cloth. Don't clean in chemicals, detergent.

6. Don't paint the unit, this may cause some foreign materials left in between the parts.
7. Don't disassemble or refit the unit.
8. Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
9. Don't dismount the antenna randomly, or use other antennas. This may interfere the transmission, and increase the radiation as well.

14 Faults & Solutions

Faults	Solutions
Startup Fail	Check the battery to see if it is fully charged or correctly installed.
Hangup Fail	In existence of an authorized number, an unauthorized number dials up the unit. Please initialize the unit and re-set up the authorized numbers.
Monitor Fail	Check if the authorized number is setup or in the coverage of signals.
Indicator keep on flashing quickly	Check the SIM card to see if it is put in place.
SD card stroing data fail	Chack the SD card to see if it is put in place.
Location report in digits of zeros.	Don't use it in the place beyond reach of signals. Place the unit outdoors, especially when starting it up.

(Remark: There are two ways for the times of sending alarm in each setting.one time and heap of times,which is according to the customer's requirements;This product also supports sending commands by GPRS server and by USB cable,which the same as SMS commands.)