Dual SIM GPS Vehicle Tracker

User Manual (Model: MT210)



Please Read Carefully Before Operation





Security of Rental Car



Cargo Logistic Assignment



Taxi Assignment



Monitoring of Public Conveyance



Security of the Outdoor Activities



Ambulance assignment



Fleet Management

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1. Product Overview

Are you still worrying about the huge roaming expense when driving to another country for tracking to keep your car safe? Does the mobile signal quality for different brand of SIM card annoyed you?

MT210 can help you get out of these problems, help you to keep tracking perfect, avoid trouble and save money!

MT210 is a kind of mini waterproof GPS vehicle tracking product with dual SIM, which can be used for tracking and security of motorcycle and business car etc. Mini size, built-in antenna and waterproof designed, easy to be installed and concealed, with power voltage range from 6V~24V, therefore can satisfy tracking and security demands for all kinds of vehicles.

2. Applications

Convert Vehicle Tracking Real Time Positioning Perfect for border transport fleet managers and Small Business Owners Ideal for Families with Teen Drivers Anti-theft Car Alarm Vehicle Management Fleet Management Motorcycle Management

3. Features & Functions

Real time tracking by SMS/GPRS (Web Platform) Auto tracking by Time/Distance/Angle interval (Web Platform) Automatically switch to target network when in a foreign country (with their SIM card) Intelligent quick search of best network when in different area Cut off engine by SMS (Two Mode: Immediate Mode or Safe Mode) Check real time position via SMS/Call Engine ON/OFF detection Built-in backup 650 mAh battery Get real time physical name via SMS (Web Platform Support) Get Google Map link of current position via SMS, show your location on map via mobile phone Mileage calculation with longitude and latitude via SMS; check Mileage (Odometer) on Web Platform Built-in motion sensor for power saving & GPRS data saving (sleep mode) I/O: 2 Inputs, 1 Output Over speed alert Geo-fence alert Power failure/low power alert SOS Panic button, SOS alert notification Wiretapping/remote listening Authorized phone numbers setting for alarm notifications Accident alarm (need crash sensor support) (optional) Fuel consumption monitoring (Optional) Temperature monitoring (support multi temperature sensor) (Optional) Car alarm function (Optional)

4. Specifications

Items	Specifications
Dimension	80 imes 58 imes 22 mm (3.14 $ imes 2.28 imes 0.87$ in)
Weight	90g
Input voltage	DC 9V~36V/1.5A
Back-up Battery	650mAh/3.7V
Power Consumption	65mA standby current
Operating Temperature	-20°C~75°C
Storage Temperature	-45°C~90°C
Humidity	5%~95% non-condensing
Work Time	33 hours in power-saving mode and 8 hours in
	normal mode (The specific circumstances
	should subject to the actual usage)
LED	2 inbuilt LED indicators to show GPS and GSM
	status
Button	1 SOS button and 1 power ON/OFF switch
Microphone	optional
Sensor	Motion sensor
GSM Frequency	GSM 850/900/1800/1900 MHz
GPS Chip	u-Blox 7
GPS Sensitivity	-162dB
Positioning Accuracy	10meters, 2D RMS
1/0	2 Inputs 1 Output

5. First Use

5.1 Install SIM Card

Check that the SIM has not run out of credit (test the SIM in a phone to make sure it can send and receive SMS);

Before installing the SIM card, turn off the power for MT210, then install the SIM card as following:



Switch on the tracker, after the LED indicators show that the tracker has picked up signal, screw the cover

5.2 Charging

Connect the device with external power like car battery, and turn on its power switch and it will do charging automatically.



Slight push to lock the SIM slots

5.3 LED indications

Push the power switch to turn on/off MT210

GPS LED (Red)	
Flashing (every 0.1 second)	Initializing or back-up battery power is low
Flashing (0.1 second on and 2.9 seconds off)	Device has A GPS fix
Flashing (1 second on and 2 seconds off)	Device has no GPS fix
GSM LED (Green)	
Flashing (every 0.1 second)	Initializing
Flashing (0.1 second on and 2.9 seconds off)	Device is connected to the GSM network
Flashing (1 second on and 2 seconds off)	Device is not connected to the GSM network

6. Basic Commands

Note :

Setting APN:

SIM1's APN only can use SMS command to set.

Send SMS command: W000000,016,APN1

SIM2's APN can use Parameter Editor to configure or SMS command to set

Send SMS Command: W000000,011,APN2

Two of the default APN is the Internet

Only one SIM on working, no two SIM card working at the same time..

- Auto select GSM mobile network when in foreign country
- Auto select the best signal GSM mobile network to make tracking working perfect

When will automatically select another SIM card: (1) two consecutive disconnect

to platform. (2) consecutive three minutes GSM no signal.

Two ways to manually select another card: (1) to send SMS messages

W000000,023. (2) platform command 0x4123

6.1 Check Current Position

To know current position of your car, send an SMS or make a telephone call directly to the device and you will receive an SMS with its location and other information.

Command: W<password>,000

For example:

Send SMS: W000000,000

You will receive a SMS from the tracker like the picture

 文本信息	🤝 🗐 💭 🏹 20:09
ID: <u>1234567890</u> ACC=OFF,Latitude = Longitude = <u>113 18 3</u> 0.00Km/h,Odomete 0.013Km, <u>2012-09-26</u>	<u>23 08 57.58</u> N 5 <u>9.31</u> E,Speed = r = 5,11:32
19:32	

Another easier way is to call the SIM of the device.

After hearing some rings, hang up the phone, you will get the same position report by SMS.

,

Note:

Item	Description
ID: 1234567890	The tracker's ID number
ACC=OFF	The engine is turned off. If engine is on at the
	moment, it will show ACC=ON
Latitude=23 08 57.58N, Longitude=113 18	Latitude and longitude information, "N" in
59.31E	latitude means North; "E" in longitude means
	East.
Speed=0.00Km/h	Speed information
Odometer=0.013km/h	Odometer information
2012-09-23,11:22	Sent date and time from device

You can copy this coordinate get from the SMS to Web Maps and check real position.

For example: *http//:maps.google.com* and see its location as picture:

M@### - grtopthiastiges = @05 Tracker	22 23 00 57 50K 113 10 55 = C		
← → C A https://maps.google.com			
◆念 搜索 图片 地图 Play YouTube 1	(刘 Gmail 文档 目形 更多。		
Google 23 08 57 58N, 113	18 59.31E	<u>م</u>	
查测器线 乳的缺点 奇 00	· · · · · · · · · · · · · · · · · · ·	· 地址, ☆	广丽统建 ×
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	-REBR B A TARY O	110588 CHER .	CHER. 884.831

6.2 Check Physical Address Name

To know specific address name of your car, send an SMS and you will receive a reply

with the car's address name of current position.

0 🚱 🕇 💷	🛜 💷 🗈 🖄	14:29
文本信息		
Xinfu 1st Rd, Maonai	n, Maoming,	
Guangdong, China		

- 9 -

Command: W<password>,111

For example, send: W000000,111

After a while you will receive an SMS from the device

As the picture:

(Note: You need to set up the device on Web Platform GPRS01 or SMS Based

Platform SMS01, then you can get the address name.)

6.3 Get Google Map's Link

You can get a Google map URL for current position of the device. After sending the command, you will get a reply with a map link, click the link, your phone will automatically dump to browser to open map with the car position.

Command: W<password>,100 For example: Send: W000000,100 Get reply from tracker like the picture



6.4 To Cut OFF Engine by SMS

You can send command to cut off engine to immobilizer the car when someone unknown drive your car away.

There is two mode to cut off engine: Immediate Mode and Safe Mode

1 Immediate Mode

Command: W<password>,020,P,F

P represent the port number you connect the Relay. F represents to cut off engine or not. Normally Relay will be connected with OUTPUT1.

If F=1, then it will cut off engine, if F=0, the engine will be restored.

For example, if you connect the Relay with OUTPUT1, then send: W000000,020,1,1 After the tracker receive this command, the relay will cut off the engine oil pump line to stop the car engine. The driver can't ignite again until he sends the recover command.

Recover command: W<password>,020,1,0

② Safe Mode

As it is very dangerous if cutting of engine when driving at a very high speed. In this case, you can choose to cut off engine in safe mode. It will cut off engine when speed is below 10km/h.

Command: W<password>,120,ABCDE

A,B,C,D,E in turn represent OUTPUT1,OUTPUT2, OUTPUT3, OUTPUT4, OUTPUT5. If you connect the Relay with OUTPUT1, then send W000000,120,10000

You can control other OUTPUTS by sending this command by changing corresponding parameter.

6.5 Set Over Speed Alarm

Command: W<password>,005,XX

XX represents the preset speed value); XX=00, disable over speed alarm; $01 \leq XX \leq 20$ (unit:10Km)

For example:

Set speed over 100KM/H, then send alarm: you need to send: W000000,005,10 After sending the command, it will reply you SMS: *SET OK! SPEED LIMIT:100Km/h* If your speed is over 100Km/h, an alarm SMS will send to your phone to warn you.

7. How To Set Up MT210 Online

Before going to the GPRS platform, you need to configure the GPRS parameters for the tracker.

There are two ways to do GPRS setting. 1. Set on computer by Parameter Editor; 2. Set by SMS commands.

You can choose one of them to do GPRS setting to set the device online.

7.1 Do GPRS Setting by Parameter Editor

Note: Don't connect MT210 to external battery when configuring.

① Buy one specific USB cable for configuration.



② Install USB driver program for the configuration USB cable

Run 'CP210x_Prolific_DriverInstaller' to install the driver for the USB data cable.
 Note: CP210x_Prolific_DriverInstaller is in the folder 'USB-232 Driver' in the CD.
 Connect the USB Data Cable between MT210 and PC.



2. Connect the configuration cable with PC, open device management of your computer, you can find "COM&LPT", as following picture shows.

The USB port is virtual comm. Port (com3) in this example,

文件(F) 操作(A) 查看(V) 帮助(H)	
 ◆ ● 〒 2 〒 20 ▲ len-THINK ▲ DVD/CD-ROM 驱动器 ④ DE ATA/ATAPI 控制器 ● ● 处理器 ● ● 处理器 ● ● 建器 ● ● 建 ● ● 第四 (COM 和 LPT) ● ● 第四 (COM 和 LPT) ● ● 中部 ● ● 単曲 	
 □ 内存技术巡动程序 □ 南音、视频和游戏控制器 □ 通用串行总线控制器 □ 通用串行总线控制器 □ 通用串行总线控制器 □ 函路设备 □ 型 网络适配器 	
▶ 1 ஆ 系统设备	

- 3. Open the GPS Tracker Parameter Editor
- 1) Connect MT210 with PC with the configuration cable
- 2) Confirm MT210 is in the Power Off states
- 3) Double click to run GPS Tracker Parameter Editor.exe. Select the COM Port, like

following picture:

GPRS		-		-			
GPRS TCF	• 🔺 Tr	acker ID 2	012010506	APN CM	INET		
APN Account				APN Pass	word		
IP 96.46.9.75	Po	ort 9500	Interval	3600 se	c		Apply
SMS Tracking							
SMS Tracking No	4 [Interval 0	min		Apply
Password	000000	-	Apply	Over Speed	0	km/h	Apply
Prefix(area code)			Арру	Time Zone	0	min	Apply
Wiretapping		_	Apply	Distance	300	m	Apply
Power Saving	0	min	Apply	Course	35		Apply
Authorized Phone N	10.					PIN	
SMS		Call		so	S Button/IN1	Г	
SMS		Call		В	utton 8/IN2		Read
SMS		Call		в	utton C/IN3		Write
SMS Initials							
SOS Button / IN1	SOS Alam	al				16	Apply
Button B / IN2	Cry For He	lpl				li f	Apply
Button C / IN3	Call The P	olice!					Apply
Extended Settings							

(please note: this Paramter Editor is set SIM2 APN)

4) Click Start button to open the COM port, you will see it changes to Close Button.

PRS						
GPRS TCP	Tracker ID	2012010506	APN (CM	NET		
APN Account			APN Pass	word		
IP 96.46.9.75	Port 9500	Interv	val 3600 sec	>		Apply
MS Tracking		~			_	
SMS Tracking No.			Interval 0	min		Apply
Password 000000		Apply	Over Speed	0	km/h	Apply
Prefix(area code)		Apply] Time Zone	0	min (Apply
Wiretapping		Apply	Distance	300	m (Apply
Power Saving 0	min 🛛	Apply	Course	35		Apply
uthorized Phone No.					PIN	
SMS	Call		SO	S Button/IN1	Γ	
sмs	Call	[B	utton B/IN2		Read
sмs	Call	[В	utton C/IN3		Write
MS Initials			101220			
SOS Button / IN1 SOS A	Jarm!				- (Apply
Button B / IN2 Cry Fo	r Help!				1	Apply
Button C / IN3 Call T	ne Police!				1 (Apply
stended Settings						

5) Switch on MT210, wait until the two LED indicators stop flashing and keep ON status. As soon as they connect successful, all the buttons are visible and the status bar will show 'Tracker Connect!'. First click "Read" to read setting from device, when all the parameter read out, you can put in the parameters you need.

Note: "Read" button: when you click the Read button, it means Read the parameters from the tracker.

"Write" button: when you write the parameters to the Parameter Editor, then click the Write button, the parameters will write into the tracker.

You can also click the button next to the parameter to write in setting.

Instruction of GPRS Settings in Parameter Editor:

GPRS TCP T APN Account IP 96.46.9.75 P	racker ID 2012010506 APN CMNET APN Password Fort 9500 Interval 3600 sec Apply
Item	Description
GPRS	Tick to enable GPRS function, select TCP
Tracker ID	Should be unique, in number, maximum 14 digits
	You can put the IMEI (cut the first digit) as a Tracker ID.
APN, APN Account, APN	Put the correct APN, if there is APN username and password, please
Password	put them also; if there is no, then just leave them blank.
IP, Port	Put online tracking server IP and port, our default is
	IP: <u>www.global-track.net</u> Port: 9600
Interval	Position upload time interval. To put a time interval to push position
	data to platform.

Note: GPRS, IP, Port is the default. You must change the APN, Tracker ID;

APN: Access Point Name for SIM GPRS function, if you don't know, please ask SIM operator or search APN in Google.

Tracker ID: You should change the tracker ID. Tracker ID can be set freely by user but must be less than 14 digits, such as 201311220001.

омб 💌 📘	Close	Read	Write	🗖 Auto	Tracker Connect
GPRS TCP	Tracker ID	2013112014	APN interne	et	
APN Account			APN Password	а [
IP 122.176.98.225	9 Port 7777	Interv	al 20 sec		Apply
MS Tracking					
SMS Tracking No.	1		Interval 0	min	Apply
Password [000000	Apply	Over Speed	km/h	Apply
Prefix(area code)		Apply	Time Zone 0	min	Apply
Wiretapping		Parameter		m	Apply
Power Saving	0 min	COM Opera	te Sucess!	<u>i</u>	Apply
Authorized Phone No	ə.				
SMS					SOS Button/IN1
SMS		Call			Button B/IN2
SMS		Call			Button C/IN3
MS Initials					
SOS Button / IN1	IN1 Alarm!				Apply
Button B / IN2	IN2 Alarm!				Apply
Button C / IN3	IN3 Alarm!				Apply
extended Settings					
Call For SMS	Cut Off Pr	ower			Apply

Click Write button to save the parameters you set for GPRS. It will pop up a window saying "COM Operate Success!", click OK.

Please click "Read" button to confirm your written parameters are saved in tracker or not.

After setting this part, you can create vehicle on platform and start online tracking on GPRS01 Platform.

Note: You can configure more other parameters for the tracker in a time. For more instruction, please refer to Appendix 1.

7.2 Do GPRS Setting by SMS Commands

1 Set Tracker ID

Command: W<password>,010,ID

Note: every tracker should have its unique ID in our GPS tracking system. Tracker ID must be less than 14 digitals.

For example:

You want to set the tracker ID as 2012082300002, then send: *W000000,010,20120823* to the device. The device will reply you SET OK!2012082300002, that means you have set the ID successfully.

2 Set APN

SIM2 APN

Command: W000000,011,APN,APN account, APN password

Description: APN is Access Point Name of GPRS. You can ask your SIM provider about it or Google it on internet.

If there is no APN username or password required, then just put in APN only.

For example, if the APN is internet and without username and password, send

W000000,011,internet, It will reply you *SET OK!internet* which means you have set successfully.

SIM1APN

Command: W000000,016,APN,APN username, APN password

③ Set IP Address and Port

Command: W<password>,012,<IP>,<port>

Our default IP address is 210.209.68.180, Port is 9600.

You can use Domain name as IP.

For example, you can send either: W000000,012, 210.209.68.180,9600 or:

W000000,012,www.global-track.net,9600 to set IP and Port.

(4) Enable GPRS Function

Command: W<password>,013,X

Description: X=0, close GPRS

X=1, enable TCP (Default)

X=2,enble UDP

We have enabled GPRS and use TCP by default.

(5) Set Time Interval to push position data to platform.

Command: W<password>,014,XXXXX

Description: XXXXX should be in five digitals and in unit of 10 seconds.

XXXXX =00000, to disable interval uploading function.

XXXXX =00001~65535, time interval for sending GPRS packet and in unit

of 10 seconds

For example, to set: update position data on platform every 60s, then send:

W000000,014,00006

It will reply SET OK!00006

You can send WWW to check what GPRS parameters have been set in the tracker. It will reply you: password;ID;APN2;APN1;IP;port;TCP;time interval for example 000000;201208230002;internet;internet;www.global-track.net,9600;TCP;00006

7.3 Create Vehicle On Platform

To check real time position on platform, you need to create the device on the platform first.

Turn on the tracker, when it normal working (picked up the GSM & GPS signal with LED lights flash fast 0.1s ON and 3s OFF)

1 Login GPRS01 Platform <u>www.global-track.net</u>

a fin must be seen of states and	1	😡 💱 = Ø 📓 - Google +Celik	PA 10- 08+
075 tracking solution	Line Track of Pay History 🥜 Operate Centre 🏦 Hereby	💼 Report Centre 🎰 System + 🕼 Belp Center 🙆 Lag Cat 🔹	Furnition Mana Matore propries
	Dava sa Guizhou Ing	Hunan yangan tigan vHunan ^{Hunan} regere Jiangai Shayangi Hengang	Hap Saville Hyper Openiap
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Note: You can select individual vehicle or multiple vehicles from the left list.

Red icon means the vehicle is Online;

Yellow icon means the vehicle is offline;

Green icon means the vehicle is online and the engine is ON.

. 🙈 Manage

(2) Create New Vehicle

Click Manage on the top of the Main Page, it will dump to a new window normally.

Click picture 1 "	manage"	and and	then click the p	icture 2, '	'Vehicle Ma	nage."
GPS tracking solution	< QLive	Track 📌 Play History		Report Centre	👧 System 👻 😡 Help	Center 🔀 Log Out 👒
ß)	China		South Kore Map Satellite Fukuoka Kumamoto	Hybrid OpenMap Osaka
a ⊖ Zatdirect a ⊖ Saycaralarm	+	1-1-1-1	Chengdu • Chongqing	Wuhan Sha	nghai Kagoshim East China Sea	a

Click Vehicle Manage button on the left list.

Menu	« [Welcome	💭 💭 Vehi	cle Mana 🗵		
🌼 Core		Group) Info	Now BEdit	Vehicle Info	na Alarm
Vehicle N	lanage	MEI No.	Plate	No.	Sim no.	Driver
Ser Ma	anage	Zatdirect 😑 🖨	alarm			
🚨 Driver M	anage	201	2717782,10001 304001,201304	, 001,23354271778	12	
🎤 POI Ma	nage	201: 201: 201: 201: 201: 201:	or 30204001,2013 30204002,2013 30204003,2013 30204004,2013	80204001, 80204002, 80204003, 80204004,		
		☐ ☐ Zatdire 201: 201: 201: 201: 201:	ct 30118001,2013 3012301,20130 3012302,20130	80118001, 112301, 112302,		

If you are a new account, you need to create a new group first.

(3) Create A New Group e.g. 'demo123'

Click the first folder (usually it is the company name), e.g.

below:

筐 Welcome	📃 🔜 Vehicle Mana	8	
Group In	ifo	Vehicle Info	
New 👳 Edit	Delete 🔜 New	🥪 Edit 🔜 Delete 🥳	₿De
IMEI No.	Plate No.	Sim no.	
🖻 😋 Zatdirect			
G 😋 Saycarala	rm 17782,10001,		
Click Kew in	Group Inf	hen you can see pic	ture

29 New Group	
Group Name:	
demot23	
Company Name:	
Demo	
Person	
Tel:	
Emait	
Address	
MaoInfo:	
Open Street Map(Free)	
Save	
	Group Name:
Put in 'demo123' in the blank of Group	n Name demo123 Put the other
	, rut the other
information if needed.	
Save the second date of the	
Click , then group demoi	23' will be created as below:
IMEI No. Plate No.	Sim no. Driver
🖮 🖂 Zatdirect	
E Demo 123	
(4) Create A New Vehicle e.g. (Benz12)	23'
	Vehicle Info
Click the group name 🖃 demo123 , ther	n click in then you

can see picture below:

Kind*:	Base Mileage:	Driver ID: :
TS310/TS300/M	~ 0	
GPRS ID*:	Brand:	Driver:
2012060200010		
Plate No.*:	Type:	Model:
Benz123	×	
Sim no.:	Color:	Chassis:
Group Name*: :	Time Zone(Hour):	Engine Number:
Demo 123		
- Init Temp-	Init Fuel	Manufacture Date:
Low Temp:	Quart:	
0	0	Purchase Value:
Hiah Temp:	Min Fuel:	
0	0	Depreciation Value:
Min Temp:	Max Fuel:	*
0	0	MapInfo:
Max Temp:		Open Street Map(Free) 🚩

Select the Tracker Model from Kind list.

Put in Tracker ID in the blank of GPRS ID.



Benz123,20120602000010,

Go back to the Main Page, refresh the page (F5). Tick to select the Plate No., the map will dump to the tracker position automatically. Such as following picture:



8. Installation

WARNING

All installations should be completed by a professional. Do not attempt to install any device if you are unsure of your ability or do not have the proper tools.

When connecting the wires, please leave the Plug unplugged.

8.1 Connect I/O Cable

GND GND Power Power Input4 GND Coutput1 Coutput1

The I/O cable is a 6-pin cable including power, negative/positive input and output.

PIN Number	Color	Description				
Input 1/SOS	White	Digital Input 1 (negative triggering), E.g. connect SOS panic button				
Input 4	Blue	Digital Input 4 (positive triggering), e.g. detecting the ACC				
Output 1	Yellow	Output1. It can be used to connect with relay for engine				
		immobilization.				
GND	Black	Ground, Negative				
POWER	Red	DC in (power source). Input voltage: 9V-36V, 12V suggested.				

8.2 Installation Diagram



8.2 Recommended installation position



8.3 ACC Connection

Connect INPUT4 with ACC wire to detect vehicle engine ON/OFF status





8.4 Engine Immobile Connection

Connect OUTPUT1 with Fuel Pump Wire to control fuel-cut from remote and stop engine.



9. Simplified SMS Commands

- 1) Engine Stop/Vehicle Immobilize: 000000STP
- 2) Engine Restore: 000000RES
- 3) Check Location Address Name: 000000ADD
- 4) Location Coordinate Check: 000000CHK
- 5) Get Location Google Map's URL with Mobile phone: 000000MAP
- 6) Voice Monitoring: 000000MON<telephone number>
- For example: Send SMS Command: 000000MON13800138000;

10. MT210 Packing and Accessories

Standard Packing:

Accessory	QTY	IMAGE	FUNCTION
Main unit	1 piece	A CONTRACT	
Relay	1 piece		To cut-off/restore the power/fuel supply
6 PIN wire	1 piece		Mainly used to connect to the vehicle

Optional Packing:

Accessory	Image	Function
Siren		Siren sounds to alert when certain alarms are triggered. (Need customization on firmware)
USB Configure Cable	USB configure cable	Configure tracker's parameter on computer. Upgrading the tracker's firmware.

11. Troubleshooting

Problem: Tracker can't be switched on	
Possible Reason	Resolution:
Tracker is out of power	Connect external power and charge it.
Component is burned or missing	Contact technician to check.
Problem: tracker cannot respond to SMS	
Possible Cause:	Resolution:
	Change the installation position of tracker;
The tracker is out of signal	confirm there are no metal shelters and the
	GPS antenna side towards sky.
GSM Network is slow	Wait for SMS. Some GSM networks slow
	during peak times or when they have
	equipment problems.
The tracker is in deep sleeping mode	Cancel deep sleeping mode
Wrong password in your SMS	Change correct password in command
The SIM has run out of credit	Replace or top-up the SIM card
No SIM card	Insert working SIM card. Check in phone
	that the SIM can send SMS messages.
SIM card has expired	Check in phone that the SIM can send
	SMS messages. Replace SIM card if
	needed.
SIM has PIN code set	Remove PIN code by inserting SIM in
	you phone and deleting the code
SIM is warped or damaged	Inspect SIM, clean the contacts. If
	re-inserting does not help try another to
	see if it will work.
Roaming not enabled	If you are in a different country your SIM
	account must have roaming enabled
Battery is low	Recharge the unit and the GSM will start
	working.

Problem: SMS contains 'Last'	
Possible Cause:	Resolution:
Lose GPS signal	Change a better position that towards sky

Appendix 1 Configure by computer

6MS Tracking No	·]		Interval 0	min		Apply
Password	000000	Apply	Over Speed	0	km/h	Apply
Prefix(area code)	[Apply	Time Zone	0	min	Apply
Viretapping		Apply	Distance	300	m	Apply
ower Saving	0 min	Apply	Course	35		Apply

Item	Description	
SMS tracking No. Interval	To put a mobile phone number for automatic tracking	
	by SMS at certain time interval in minutes	
Password	To set SMS command password, the default is	
	000000,	
Over Speed	To set speed limit for over speed alarm	
Prefix(area code)	To set country code	
Time Zone	To set time zone, GMT*60 (minutes), if in west half	
	western hemisphere, "-" is necessary to put ahead	
Wiretapping	To set wiretapping mobile phone number	
Distance	To set track and upload data by certain distance in	
	meters	
Power Saving	To set time enter into standby mode when shaking	
	not detected to save power and GPRS data traffic	
Course	To set upload data via angle shifting by certain angles	

Authorized Phone No.			PIN
SMS	Call	SOS Button/IN1	
SMS	Call	Button B/IN2	Read
SMS	Call	Button C/IN3	Write

Item	Description
SMS Call	To set Mobile phone No. for SMS or Calling when SOS
SOS Button/IN1	button/Input 1 is triggered (alarm), it will call/SMS to this phone
SMS Call	To set Mobile phone No. for SMS or Calling when Button
Button B/IN2	B/Input 2 is triggered (alarm), it will call/SMS to this phone
SMS Call	To set Mobile phone No. for SMS or Calling when Button C/Input
Button C/IN3	3 is triggered (alarm), it will call/SMS to this phone

After write finished, click "Write" button to configure the MT210's Parameters. It will

pop-up a mini window, as below pictures:

15 millions		
SOS Button / IN1	SOS Alarm!	Apply
Button B / IN2	Cry For Help!	Apply
Button C / IN3	Call The Police!	Apply

SOS Button/IN1	To customize the reply SMS text when SOS Button/Input1 triggered
Button B/IN2	To customize the reply SMS text when Button B/Input 2 triggered
Button C/IN3	To customize the reply SMS text when Button C/Input 3 triggered

Extended Settings		
Call For SMS	Cut Off Power	Apply

Call for SMS	Tick it to reply SMS when calling in
Cut off Power	Tick it to send alert when the external power be cut off

Appendix 2 Command List

Description	Command	Remarks
Get current location	W******,000	Get current location of MT210
Get location in	W******,100	http://maps.google.com/map
Google map URL		s?f=q&hl=en&q=22.542563
format via SMS		,114.077971&ie=UTF8&z=
		16&iwloc=addr&om=1
Change user's	W******,001,######	***** is old password
password		###### is new password
Set interval for	W******,002,XXX	XXX is the interval in minute. If
automatic timed		XXX=000 it will stop tracking
reports		
Set preset phone	W******,003,F,P,T1,T2	F=0, to disable this function;
number		F=1, only sending SMS;
for SOS button		F=2, only calling preset phone number;
		F=3, both SMS and calling (default)
		P is the button number and should be 1,or 2,
		or 3.

		If SOS button is linked to IN1, then P=1.
		T [.] Preset phone number
		(T must be less than 16 digits)
		T1: When no T2 T1 for short message
		number or dial the number: when have T2
		T1 for moscage number
		T2: for dial the number
		12: for dial the humber.
Set over speed alarm	W******,005,XX	xx (the speed preset value)
When MI210 speeds		=00, disable
higher		=[01 <xx<20] (unit:="" 10km)<="" td=""></xx<20]>
than the preset value,		
it will		
send one over speed		
alarm		
SMS to the SOS		
preset		
number.		
Set Geo-fence alarm	W******,006,XX	XX (set distance from current central point
(foursquare)		place)
When the MT210		=00, disable
moves out		=01, 30m
of preset scope, it will		=02, 50m
send		=03, 100m
one Geo-fence SMS		=04, 200m
to the		=05, 300m
SOS preset number.		=06, 500m
		=07, 1000m
		=08, 2000m
Extend Settings	W******,008,ABCDEFG	A=0, disable position report function
	HIJ###	when a call is made to MT210
		A=1, enable position report function to
		get position SMS by Calling MT210
		I=0, disable power failure alert
		l=1 enable power failure alert
		The functions of BCDEEGHL are
		remained for further use
		### is the ending character
Sat Gao fance alarm	\//****** 017 data	data is the coordinates which include:
	vv ,U1/,Udld	Lower left V Lower left V Upper right V
017 command is far	vv ,117,Udla	Lower-left A, Lower-left T, Opper-fight A,
our command is for		
alarm when tracker		
moves out the preset		11404.0000,E,ZZ32.0010,N,11505.1234,E,Z3
scope;		33.56/8,N
117 command is for		Note:

alarm when tracker	1. Lower-left X,Y (longitude and latitude)
moves in.	should be smaller than Upper-right X,Y;
When the tracker	2. All longitudes and latitudes should be in
moves in or out, it	ASCII format as follows:-
will send an SMS	Longitude: DDDMM.MMMM,E/W. 4 places
alarm to the	of decimal. '0' is needed to be stuffed if no
authorized phone	value available.
number for SOS.	Latitude: DDMM.MMMM,N/S. 4 places of
	decimal. '0' is needed to be stuffed if no
	value available;
	3. Send W******,017 or W******,117
	without data to disable this function.

Presetting by SMS for GPRS	tracking	
Set ID for MT210 by SMS	W******,010,ID	Tracker ID must be less than
		14 digits
Set APN by SMS	SIM1:W******,016,APN1,APN	APN Name, APN Password If
	Account, APN Password	no password required, just
	SIM2:W*****,011,APN2,APN	insert APN
	Account, APN Password	name only;
		APN defaulted as 'CMNET';
		APN name + password not
		over 39
		characters.
Set IP Address and Port by	W******,012,IP, Port	IP: xxx.xxx.xxx
SMS		Port: [1,65536]
Enable GPRS Function	W******,013,X	X=0, close GPRS (default);
		X=1, enable TCP
		X=2, enable UDP
Set Time Interval for	W******,014,XXXXX	XXXXX should be in five
Sending GPRS Packet		digitals and in
		unit of 10 seconds.
		XXXXX=00000,to disable this
		function;
		XXXXX=00001~65535, time
		interval for sending GPRS
		packet and in unit of 10
		seconds.
Output Control	W******,020,P,F	P =1, Out1
		=2, Out2
		=3, Out3
		=4, Out4

		=5, Out5
		F = 0, to disable the output
		=1. to enable the output
Output Control (Safe	W*****.120.ABCDE	ABCDE represents Out1. Out2.
mode)	,,	Out3
This function is achievable		Out4 Out5 respectively
when the speed is below		If A or B or C or D or F
10km/h and GPS is		-0 to disable the output
avallable.		=1, to enable the output
		=2, to remain previous status
Set power saving mode	W******,026,XX	XX=00, to disable this function
when MT210 is still		XX=01~99, to set this function.
(In power saving mode, GPS		It is in unit of minute.
stops working. GSM enters		Example:
standby mode and stop		If XX=10, MT210 will enter
sending out message until it is		power saving mode in 10
activated by an SMS or an		minutes after it is immobile.
incoming call)		
Set phone number for	W******,030,T	T is the telephone number for
wiretapping		wiretapping and max. 16 digits
Set time zone difference	W*****,032,T	T=0, to disable this function
		T=[1, 65535] to set time
		difference in minutes to GMT.
		Default value is GMT
		+ not necessary for those
		abead of
		GMT For example either +120
		or 120 is accontable
		required for these hebind
		-, required for those benind
		Givi I. For example, -120.
Set character for SOS alert	w******,033,P,Char	Char P is the button number.
message		P=1, 2, or 3.
		Char is the character in SOS
		message
		and max 32 characters
Set tracking by driving angle	W******,036,Degree	Measured by Degree(s),
change function		Degree=0,disable this
		function; X=1-359, means set
		angle degree interval in this
		function.
Set tracking by distance	W******,045,X	Measured by Meter(s),
function		X=0, disable this function.
		.,
		X=1-65535 , means the

		function.
Set clear/reset odometer	W******,046	To clear and reset odometer
function		information to zero.
Set function of receiving	W******,111	This function needs support of
location physical address		the GPRS01 or SMS01 tracking
name via SMS		platform, address SMS will be
		received in text format.
Get version and serial	W******,600	To get version and serial
number		number of
		current firmware
Get IMEI No.	W******,601	To get device IMEI No.
Reboot GPS and GSM Module	W******,900###	### is the ending character.
Initialization	W******,990,099###	### is the ending character.
To turn all the parameters /		
settings (except for the		
password) to factory default.		
Password Initialization	W888888,999,666	This command will reset the
		current password to factory
		default password 000000