



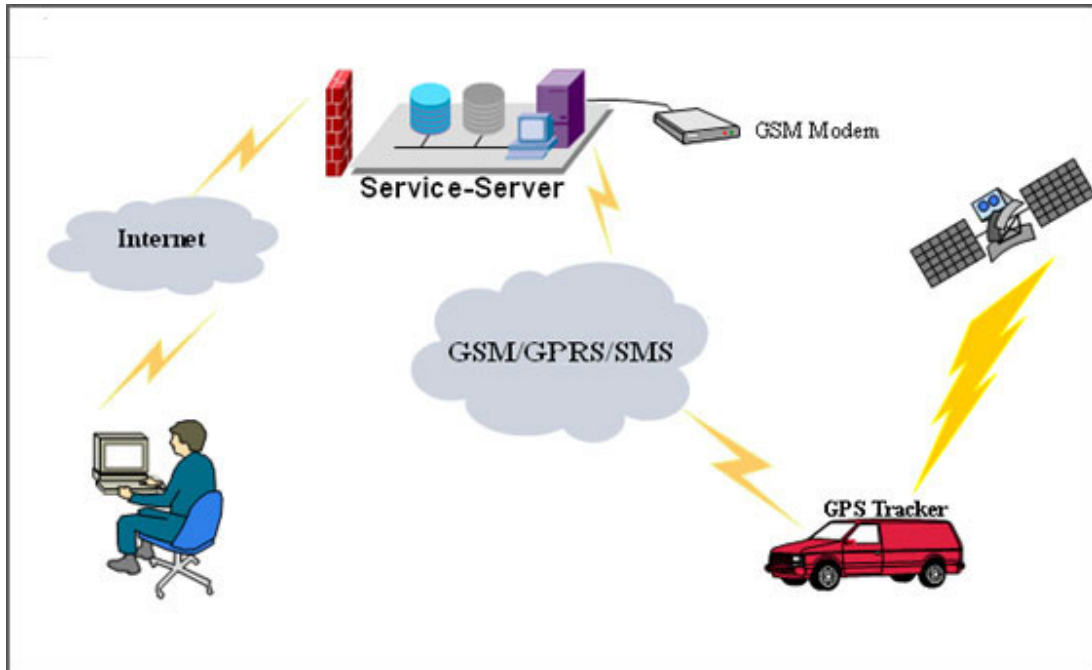
# GPS/GPRS/SMS Vehicle Tracking System

## GT-200T



## General Introduction:

GT-200T is a small yet powerful GPS/ GSM/GPRS vehicle tracking device, with optional mobile data terminal or handfree phone kit for 2 way voice and message communications. It has outstanding multiple inputs and outputs for taxi odometer, oil level sensor, temperature sensor, the original car alarm systems, digital camera for image monitoring, etc. It is designed for almost any vehicles. With its compact and small size, ( cigarette box size), easy hide and installation inside the vehicle.



## Applicability

- Just be used for car which has 12V or 24V battery power supply.
- Transmit data either by GPRS or by SMS

## BASE TYPE

### 1. Basic functions

#### 1.1 Position

When system server sends a command to the device, it will send back data package of longitude, latitude, speed, direction and other info.

**1.2 Position by time**

System server command device sends back data package by time, such as every 30 seconds or 2 minutes.

**1.3 Position by distance**

System server command device sends back data package by distance, such as every 500 meters or 2 kilometers.

**1.4 Urgency alarm**

Press the urgency button which is installed in the car, the device will send urgency alarm to system server automatically.

**1.5 Over speed alarm**

System server sends a speed limit command to every car, if it over speed, the device will send alarm to system server automatically

**1.6 Power supply break alarm**

The device has a backup battery, if car battery power supply is broken, the backup battery will work immediately and send alarm to system server at the same time.

### **1.7 Geo-fence alarm**

The system server can setup Geo-fence, when the car drives in or out of the Geo-fence, it will send alarm to system server automatically.

Support 4 polygon Geo-fences or 64 rectangle Geo-fences.

### **1.8 Stolen alarm**

The device is connected with car alarm system, when car alarm system is touched off, it will send alarm to system server automatically.

### **1.9 Timing login**

### **1.10 Self check**

The device can check itself, when handset broken, GPS antenna broken, GSM antenna broken, backup battery broken, it will send signal to system server automatically.

And also the system server can check the device.

### **1.11 Intelligent remote control**

When device receives command from system server, it will shut off car engine when the car speed less than 5 Mph.

### **1.12 Forced remote control**

If system server sends a forced command to device, it will shut off car engine immediately.

### **1.13 Voice monitor**

When urgency alarm is working, system server can dial to the device and then voice monitor clandestinely.

### **1.14 Blind spot memory**

If device lost GSM/GPRS signal, it will store position data automatically.

When GSM/GPRS signal resume, it will send storage datum to system

server one by one.

### **1.15 Storage data**

There is a memory chip inside the device. It can store more than 30,000 position datum. They can be read out if it's necessary.

## **2. Interface**

### **2.1 Input port**

2.1.1 Urgency button input.

2.1.2 Engine start check.

2.1.3 Stolen alarm, one anode voltage line is connected with car alarm system output.

### **2.2 Output port**

One route relay is to control start up or shut off engine.

**Notice:** There is a different type relay for 12V or 24V.

### **2.3 Data port**

One RS-232 series port

Connect with PC to update software.

Connect with handset which is used for testing and setting.

### **2.4 Voice monitor microphone port**

Connect with microphone.

## **3. Standard package**

<b>Terminal unit:</b>	one set
<b>GPS antenna:</b>	one set
<b>GSM antenna:</b>	one set
<b>Urgency button:</b>	one set
<b>Relay:</b>	one set
<b>Backup battery:</b>	one set (inside terminal unit)
<b>Microphone:</b>	one set (voice monitor use)
<b>Cable:</b>	one set

## **4. Appurtenance**

**Handset:** Just be used for testing and setting.

Please read document about <HandsetConfigMenu>

# Pro type

## 1. Basic function

The same as base type

## 2. Increased functions

### 2.1 Handset mobile phone

The device can connect with a handset mobile phone.

The handset mobile phone has all the functions of a normal mobile phone, such as making phone call, writing, sending, and reading short message, call transfer etc.

It supports hand free talking mode.



### 2.2 Wireless handset

The device can connect with a wireless handset mobile phone.

The wireless handset mobile phone can make phone call by hand free talking mode only.



### 2.3 Display

The device can connect with a display which is like a big screen of mobile phone. It also has all the functions like a normal mobile phone.

It has increased a function for short message for Taxi and



logistic truck use.

### **3. Interface**

#### **3.1 Input port**

3.1.1 Urgency button input.

2.1.2 Engine start check.

2.1.3 Stolen alarm, using one anode voltage line connected with car alarm system output.

2.1.4 Another two anode voltage lines and one cathode voltage line. You can connect it with any type of voltage sensor, such as electronic locker, Taxi on duty switch etc.

2.1.5 One A/D (Analog and Digital) transform port. You can connect it with some A/D sensors, such as temperature sensor.

#### **3.2 Output port**

3.2.1 One route relay is to control startup or shut off engine.

**Notice:** There is a different type of relay for 12V or 24V.

3.2.2 One route speaker controller, if you use hand free talking mode.

3.2.3 One route PWM output can be connected with alarm speaker.

#### **3.3 Data port**

One RS-232 series port

Connect with PC to update software.

Connect with handset which is used as mobile phone, testing and setting.

Connect with some digital sensors, such as Taxi meter.

#### **3.4 Voice monitor microphone port**

Connect with microphone.

### **4. Standard package**

The same as **BLUE** base, but different form cable.

### **4. Appurtenance**

**4.1 Handset:** Please read document about handset.

**4.2 Display:** Please read document about display.

**4.3 Electronic locker**

**4.4 Taxi meter.**

**4.5 Temperature sensor**

# BLUE plus

## 1. Basic function

The same as **BLUE** pro

## 2. Increased function

This is a platform for ODM (Original design manufacturer develop) .

We have prepared for more input interfaces for increased function use.

You can define more functions if you need.

Now we offer some developed functions.

### 2.1 Image

The device is connected with camera, it can send image to system server by command. And also can send image by other status, such as urgency alarm working, door opening or closing.

The image size is 320×240, and send every 20 seconds.

### 2.2 Voice transform

The device is connected with transform unit, it can transfer short message into voice automatically.

### 2.3 On the way information speaker

This function is used in bus. We can set bus station longitude, latitude and other informations into the device, if car drives around the station, the speaker will read the information out.

## 3. Interface

### 3.1 Input port

3.1.1 Urgency button input.

3.1.2 Engine start check.

3.1.3 Another four anode voltage lines and one cathode voltage line. You can connect it with any type of voltage sensor, such as electronic locker, Taxi on duty switch etc.

3.1.4 One A/D (Analog and Digital) transform port. You can connect it with

some A/D sensor, such as temperature sensor or oil tank sensor etc.

### **3.2 Output port**

3.2.1 One route relay is to control startup or shut off engine.

**Notice:** There is a different type of relay for 12V or 24V.

3.2.2 Four more relays control, You can control speaker, camera etc.

3.2.3 One route PWM output can be connected with alarm speaker.

### **3.3 Data port**

Two Rs-232 series port.

Connect with PC to update software.

Connect with handset is used as mobile phone, testing and setting.

Connect with some digital sensors, such as Taxi meter.

Connect with camera.

### **3.4 Voice monitor microphone port**

Connect with microphone.

## **4. Standard package**

The same as **BLUE** base, but different form cable.

## **4. Appurtenances**

### **4.1 Camera**

### **4.2 Oil tank sensor**

### **4.3 Voice transform unit**

**Technical parameter**

Item	Technical parameter
Working voltage	8 ~
Power source anti- ties	$\geq$ 80V
Working electric current	Average 110mA @ DC 12V Sleeping <50mA @DC 12V
Terminal unit size	88 ×62.5× 32.5 mm ( LXWXH )
Net weight	0.26kg (Outer cover of Aluminium alloy)
Gross weight	0.98kg (with standard package)
GSM module frequency	SIEMENS MC39i 900Mhz, 1800Mhz
	SIEMENS MC56 850Mhz, 900Mhz, 1800Mhz
	BenQ M23A 900Mhz, 1800Mhz
	WAVECOM Q24NG 850Mhz, 900Mhz, 1800Mhz, 1900Mhz
GPS performance	Tracks up to 12 satellites of GPS Position precision<15 meters CEP without SA Cold start time< 48 sec. Warm start time< 38 sec., average Hot start time: <8 seconds ,average
Antenna	GPS SMA connection, - 26dB, Cable length 5M
	GSM SMA connection , - 3dB, Cable length 3M
Working temperature	-20℃ ~ +60
Working humidity	5% ~
Store temperature	-40 ℃ ~ +85
Backup battery	Nickel- hydrogen 4.8V/DC 500 mAh
GPS dynamic Conditions:	Altitude 18,000 meters (60,000 feet) max
	Velocity 515 meters / second (1000 knots) max
	Acceleration 4G, max
GPRS feature	2 Watts EGSM (GSM900 Class 4)
	1 Watt GSM1800 (DCS1800 Class 1)
	GPRS class 10
	Audio support (with echo-cancellation and noise reduction)
Data transfer modes:	GPRS (TCP/UDP)
	SMS PDU (buffered with up to 4 positions per SMS)