



# GPS online Vehicle Tracking & alarm system

Real-time location, speed, time, direction, temperature, vehicle status, alarms triggers report;

2 internet server TCP or UDP connectable;

Mobile phone tracking and control,

10 Geo-fence protection and 1 on-spot Geo-fence setting;

GPS data output to Laptop & PDA for navigation;

Mobile phone voice & SMS tracking and Controlling;

900 messages for history storage; Back-up battery;

Multiple input and output to connect to alarms & accessories etc.



## Optional Accessories:

Temperature sensor.  
Shock sensor.  
Ultrasonic sensor.

## Detailed features:

- Dual data communication capability through GPRS and SMS.
- Available in GSM 900/1800 MHz.
- Real-time GPS tracking and vehicle status monitoring.
- Up to 4 SMS numbers for emergency report or remote setup.
- Remote/direct setup of Geofence parameters.
- Selectable reporting method: by time, distance and intelligent.
- Selectable event trigger report: speeding, course changing, temperature, low battery level, door trigger, ACC trigger, additional sensor trigger.
- Keep alive function to ensure the unit is in connection with GPRS network.
- GPS "data out" port can be used to output GPS data directly onto navigation panel, PDA or PC.  
PC setup port can be used to setup all functions and read out history report through PC setup software.
- Built-in rechargeable battery enables unit to send "power cut" report when external power is removed.
- Built-in start killer relay can stop the vehicle by sending anti-carjacking command through server or SMS.
- Built-in door lock, unlock and parking light relay.
- External one button valet switch can perform 5 tasks: sending help, activate immediate.
- External alarm port can be used to connect with alarm system.
- 3 pin sensor port can be used to connect with additional sensor such as shock sensor, ultrasonic sensor etc.
- 2 pin temperature sensor port can be used to connect with temperature sensor.
- CE E-mark, FCC, PTCRB Approval.

Communication	
Item	Description
GSM	SMS, Data Line Communication, GPRS - Supports TCP/IP Protocol
GPS	Sirf Star III, High sensitivity solution
RS232C	(USB)
Logging	
Normal Vehicle Activity	Logs normal vehicle
Journey Activity	Journey Start : Idle Time : Over Speed, Journey End
Event	Towing : Geo-Fence (10)
Security	Input Activity : Output Activity
Event	
Journey Activity	Journey Start : Idle Time : Over Speed, Journey End
Geographical	Towing : Geo-Fence (10)
Security	Input (4EA) Trigger : Output (2EA) Trigger
Reporting	
Current Location Report	Reports current location report
Real-Time Location Reports	Ignition Off Status : Ignition On Status, Emergency Status Auto Report (Once/Day)
History Report	On Demand Report
Electrical Characteristics	
GSM	900/1800/1900 or 850/1800/1900
Input Voltage	+ 12V DC /+ 24V DC
Power Consumption	12 Volt - 110mA : 12 Volt - 130mA (Peak)
Backup Report	Rechargeable Li Battery at 1000 mA
Backup Battery Battery	9 Hours with GPS and Communication ONLINE (Dependant on the battery age and last charge, approximation only)
Memory Backup	Flash Memory 2MB (2000000 * 8Bits data) up to 16800 Logging data saving
Outputs	Two negative outputs (500mA max per output)
Inputs	Four inputs (active low/high to activate input)
Logging	
To Person	Journey - Start & End Over Speed Input Trigger (for PANIC Button)
To Control System	Input Trigger Towing Geo-Fence Low Battery (Internal & External)
GPS Specification	
Frequency	L1, 1575.42 MHz
GPS gain	-159dbm
Protocol	NMEA0183
Channels	20 Channels
Position	2DRMS:10 meters / 2DRMS: 5meters (WAAS enabled)
Hot Start	1 sec average
Warm Start	< 35 sec average
Cold Start	< 42 sec average
Physical Characteristics	
Unit Size	95L *89W *35H (mm)
Weight	300g
Cover	High End PC+ABC Material
Interface	4 input & 2 output, 1 Mini USB port (RS232C) 4 LED lights for GSM, GPS and GSM
Unit Configuration	
Set Unit Parameter	Unit parameters can be set via USB/SMS
To Control System	Unit parameters can be acquired via USB/SMS
Case Environmental Characteristics	
Operational Temperature	-20°C to +70°C (board temperature)
Storage Temperature	-25°C to +85°C