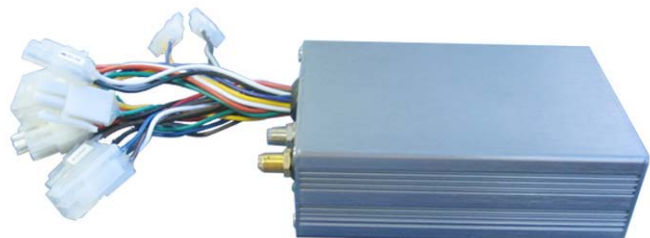

Smart Vehicle Tracking System

Model Number: SMart F8



GPS positioning terminal have stable performance, easy-installation, perfect functions and low-power consumption features. It can connect handset, LCD dispatching screen, camera and LED advertising display. It is suitable for taxi, logistics vehicle, bus, special type car and company car.

Function Instruction:

- **Positioning Monitoring**

According to control center command, terminal return positioning message based on appointed time interval and frequency. Positioning message include longitude, latitude, speed, direction, condition message and so on..

- **Emergency alarm**

After press covert alarm button, control center receive vehicle alarm message in time. And then control center will enter into alarm process.

- **Over-speed alarm**

When vehicle exceed the speed control center set, carborne terminal will send message to control center until vehicle speed decrease into limited scope.

- **Cutting line alarm**

After the main vehicle battery was broken or can not supply power, built-in spare battery can maintain the product go on working and send cutting line alarm message to control center.

- **Cross-border alarm**

The system set border area. Once vehicle is cross border, Carborne terminal will send a cross-border alarm message to control center.

- **Tiredness driving alarm**

If vehicle go on running more than 3 hours, it will remind driver to have a rest and send alarm message to control center.

- **Emergency monitoring**

In case of emergency, control center can start up monitoring function and monitor the inner condition of vehicle.

- **Lock car by remote control**

According to control center command, it can break off vehicle power and lock it until control center release.

- **Mileage Statistics & Fuel Monitoring**

Terminal can send vehicle mileage data together with positioning data to control center. Control center can decide weather they need to back transfer the data or not.

- **Blind area compensating**

When vehicle enter into blind area, terminal will store vehicle position message. After left blind area, it will send message to control center at once. It can save 300 blind messages at most.

- **Phone function**

Can dial and receive phone by connecting handset or LCD.

- **Conversation limitation**

According to control center command, it can prohibit dialing or receiving phone.

- **Message bilateral transmission**

Can receive the public message from control center and transfer fixed phrase to control center.

- **Long-distance setup**

Can set terminal parameter in control center, such as center number, IP address, port number and so on. Except install and set in vehicle for the first time, no need to change parameter in vehicle for easy maintain.

- **Intelligent Self-inspection**

Vehicle terminal can do self-inspection. Once go wrong, it will send failure notice to control center.

Such as handset, GPS, GSM, GPS module malfunction and so on.

- **Real-time Online**

GPS vehicle terminal can set up time interval. If it doesn't send any other messages during these time, it will send a chain road maintain message to control center. Keep terminal real-time on line.

- **Save-power function**

Terminal can enter into save-power mode according to setup in order to protect vehicle battery. The current will less than 20mA under save-power mode.

- **Connect LED display**

Can connect LED display to display advertisement.

GPS main frame Technical Indicators

Name	Parameter
Working voltage	12/24VDC, Limit voltage 10.5~40V DC
Power supply anti-reverse connection Characteristic	≧ 600V
Working current	Average current: 100mA @ 12V DC; Save power current < 20mA
Terminal size	100*65*30mm
Weight	0.2Kg
Digital signal transmission indicator	Using band: 900MHz/1800 MHz
GPS performance indicators	Receiving channel: 12 parallel channels Positioning accuracy: < 15 meter (95%) Cold start: < 34s (average) Warm start: < 33s (average) Hot start: < 3.5s (average)
Input port	Line 2 low electrical level trigger: 0~1V Line 2 high electrical level trigger: 5~60V Line 1 vehicle ignition check: 7~60V
Output port	Line 1 high electrical level: Max 30 mA
Data port	Line 1 standard serial RS232 Port;

	Line 1 serial TTL-RS232 port
Antenna	GPS antenna: SMA port; length 3m GSM antenna: SMA port; length 3m
Working temperature	-20°C ~ +70°C
Working humidity	5% ~ 95%
Storage temperature	-40°C ~ +85°C

Standard configure

GPS terminal (main frame) 1pc
 GPS antenna 1pc
 GSM antenna 1pc
 Emergency button 1pc
 Lock vehicle relay 1pc
 Connection line 1set
 Wiretapping Microphone line 1pc

Optional spare parts

Built-in spare battery
 Hands-free speaker
 Handset with display
 LCD screen with English display
 Advertising LED screen
 Text broadcaster
 Transducer interface, taxi meter interface

Camera function:

Adopt exclusive image receiving disposal module which can be connected to any camera with video output port, Fast transmission speed, clear image, safe and easy to use.

Camera Parameter:



Working Environment	-20°C ~ 80°C
Pixel	30,000pixels
Resolution	160×120 320×240 640×480
Output format	JPEG
Working voltage	+5V
Communication speed(bps)	Default 14400(self-adapt)
Working electric current	Less than 100mA (200mA when Infrared light is lighting)
Min Luminance	1Lux
White balance	Auto

Lens	2.8MM Infrared
Exposure	Auto
Viewing angle	120 degree
Night viewing parameter	
Night viewing opening Luminance	5Lux
Night viewing image	Black & White image
Night viewing distance	2~3m
Interface	Industrial 485
Use environment	Interior of Car(taxi)
Lead wire length	5m
Terminal point	EL2X2 (4pin) (depend on customer)
Others	Humidity 20%~80% RHG

LCD Screen Function:



White background display, 192*64 dot matrix, Phone function, Text editing, Parameter setup, Positioning display, Vehicle inspection setup, Password protection, System maintain, Conversation storage, Address list, Phone limitation, Fixed SMS, Login, Logout and Sign setup.

Handset Function:



Blue background display, Phone function, Text editing, Parameter setup, Positioning display, Vehicle inspection setup, Password protection, System maintain, Conversation storage, Address list, Phone limitation, Fixed SMS.