Asset GPS Tracker

User Manual

Description

Asset tracker is a rechargeable GPS tracker with strong magnet and long standby battery. Insert SIM card, it will upload GPS location based on movement or preset frequency automatically. Support multiple working mode for different using field.

Production Application

Personnel safety tracking

Fleet management and vehicle tracking

Car service shop/Car rental

Vehicle insurance

Motorcycle and electric bike tracking

Asset/container tracking management

Production Features

Wireless magnetic design, 0 installation.

Live positioning and tracking through web platform/APP.

Multi-working modes.

Geo-fence/Low battery alarm/Vibration alarm.

Remote voice listen-in (optional).

Rechargeable Battery.

Specs.

GSM/LTE Specification	
2G GSM frequency	850/900/1800/1900MHz(2G version)
4G LTE bands	**Latin-US version:** LTE-FDD B1/B2/B3/B4/B5/B7/B8/B28/B66 LTE-TDD B34/B38/B39/B40/B41 **Asia version:** LTE-FDD: B1/B3/B5/B8/ LTE-TDD: B34/B38/B39/B40/B41
GPRS	Class 12, TCP/IP
Memory	32 + 32 Mb
Phase error	RMSPE<5,PPE<20
Max output	GSM850/GSM900:33±3dBm ,GSM1800/GSM1900:30±3dBm
Max frequency error	±0.1ppm
Receive sensitivity	Class II RBER2%(-102dBm)
GPS Specification	
Chipset	**2G version** MTK6261(GSM)+AT6558R(GPS) **4G version** SIMCom LTE Cat 1 A7670 Series+AT6558R(GPS)
Frequency	GPS L1, 1575.42 MHz C/A code
Channel	66
Location accuracy	<10 meters
Tracking sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTFF (open sky)	Avg. hot start ≤1sec
	Avg. cold start≤32sec
Others	
Antenna	Built-in quad band GSM antenna, GPS ceramic antenna
Charging voltage	5VDC
Working current	100uA~100mA
Battery	rechargeable 2000mAh or 3000mAh/6000mAh/10000mAh
Standby	7~365 days depends on activities and battery capacity
Operating temperature	-20 ~+70

Light	Signal	Normal	Abnormal
Green	GSM	Constant on	Flashing
Blue	GPS	Constant on	Flashing
Red	Power	Constant on:	Turn off: charged full

		charging	
After power on 3 minutes, light will turn off and enter light sleep.			

SMS Command List

SMS Function	SMS Command format	SMS example
Please don't type "+" "space", password 123456 Preset Center Number first before testing SMS or Phone Call alarm mode. Each SMS must reply"OK" represent command successfully.		
Mode 0: Real-time	MD123456+space+0	GPS always ON consume battery fast!
Mode 1: Vibration mode (Default)	MD123456+space+1+space+work time+space+8+space+online or offline mode	MD123456 1 **3** 8 **0** 2nd "3": work time, unit: minute 4th "1" : device will disconnect from server and show offline status; if put 0 device won't disconnect from server and show online status.
Mode 2: Clock mode	MD123456+space+2+space+work time+space+wakeup time+space+wakeup time	MD123456 2 3 8:00 14:00
Mode 3: Interval mode	MD123456+space+3+space+work time+space+ sleep time	MD123456 3 3 120
Check working mode	MD123456	
Set IP Port	adminip+password+space+IP Address+space+port number	adminip123456 www.gps2828.com 7018
Set APN	apn123456+space+LocalApn+space+ApnName+space+ApnPassword	apn123456 internet
Set fall-off alarm	remove123456+space+1	remove123456 1
Cancel fall-off alarm	remove123456+space+0	remove123456 0
Set Time Interval	ITV123456+space+time interval(s)	If 60s , send SMS: ITV123456 60
Set center number	centernum123456+space+phone number	centernum123456 13712345678 no need put country code
Cancel center number	centernum123456	
Set low battery alarm	lowbat123456+space+1	lowbat123456 1
Cancel low battery	lowbat123456+space+0	lowbat123456 0
Set SMS time zone	timezone123456+space+(timezone*60)	If+5.5:timezone123456 330
Check device status	check123456	check GPS GSM status

Set alarm mode	KC123456+space+1	APP alarm (default)
	KC123456+space+2	APP+SMS alarm
	KC123456+space+3	APP+SMS+PhoneCall alarm
Set vibrate alarm	vibrate123456+space+1	Must keep continuously static 3 minutes before vibration
Cancel vibrate alarm	vibrate123456+space+0	
Set Voice listen	Monitor13456	Optional
Cancel voice listen	Tracker123456	default
Set factory mode	begin123456	It will erase all setting

GF70 Solar panel charging power utilization efficiency table at different time and different season (for reference)

Season	8:00-9:00	12:00-13:00	17:00-18:00
Spring	15-25%	40-50%	25-30%
Summer	25-30%	80-100%	30-40%
Autumn	20-30%	60-80%	20-30%
Winter	10-15%	20-30%	5-10%

Remark: the light intensity inside the car through the glass is only 5%-10% of that outside the car. Therefore, the charging efficiency inside the car is only about 10% of that outside the car, which is determined by the characteristics of solar products.

The light absorption efficiency of solar panels depends on: **light intensity and light angle**



Real time Tracking Software

Web: www.gps16888.com

Android & IOS APP : **SecumorePlus**

Default to use IMEI number login, password as 123456.