



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.
- ◆ Waterproof design (Not applicable to GF40).
- ◆ Live positioning and tracking through web platform/APP.
- ◆ Multi-working modes.
- ◆ Anti-tamper alarm (Not applicable to GF40).
- ◆ Geo-fence/Low battery alarm/Vibration alarm.
- ◆ Remote voice listen-in (optional).
- ◆ Rechargeable Battery.

Specs.

Model GF40 69*43*20mm	3000mAh
Model GF50 80*56*27mm	6000mAh 2G or Optional 4G, Removal alarm
Model GF60 120*83*29mm	10000mAh 2G or Optional 4G, Removal alarm
Model GF70 152*83*35mm	10000mAh 4G, Removal alarm, Solar Panel
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
<ul style="list-style-type: none"> ★ 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	<p>MD123456 1 3 8 0 (default) MD123456 1 3 8 1</p> <p>1 3 8 is fixed, do not change it.</p> <p>Last parameters: "0": device won't disconnect from server and show online status always.</p> <p>"1" : device will disconnect from server and show offline status when device is stationary more than 3 minutes, after detect movement, will wake up and begin to report to platform again</p> <p>By default, device will report every 20s during movement, if you want to change report interval to 60s during movement, please send command: ITV123456 60, value range: 5-180 seconds</p> <p>If you want to set report interval during stationary, please send command: STV123456 m120, report every 2 hours, value range: 1-65535 minutes This command is only applicable to firmware version GF60.4G.V2.14 and later.</p>
Mode 2: Clock mode	MD123456+space+2+space+work time+space+wakeup	MD123456 2 3 8:00 14:00

	time+space+wakeup time	Devices will wake up according to setting clock.
Mode 3: Interval mode	MD123456+space+3+space+work time+space+ sleep time	MD123456 3 3 15, device will work 3 minutes(min: 3) and sleep 15 minutes(min: 15 minutes). During 3 minutes work time, report interval is 20s. Device will report to platform according to setting parameters, no matter movement or stationary Last parameter of sleep time, value range: 15-1440 minutes.
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)+0 or 1	If+5.5:timezone123456 330 1 The Eastern time zone is 0 and the Western time zone is 1
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 (only 2g version support)
Cancel voice listen	Tracker123456	default
Set factory mode	begin123456	It will erase all setting, back to factory settings (IP and APN won't erase)

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.