Product specification

Product name:	GPS tracker
Product model:	**GLYT-02 1700Mah GPS tracker**

Contents

1. Product basic introduction

1.1 Product Introduction

YT-02 1700Mah GPS tracker is a wireless large-capacity vehicle positioning terminal designed for vehicle networking. It integrates LTE wireless communication technology and GPS/BDS satellite navigation and positioning technology. The terminal adopts industrial high integration full built-in antenna design, and has functions such as low power alarm, overspeed alarm and fall off alarm. Three modes can be set to meet the customer's various application scenarios, and the user can send instructions to change the working mode. With the global positioning service platform, the device location can be queried anytime and anywhere.

1.2 Application Areas

Insurance industry, enterprise fleet industry, automobile manufacturers /4S stores, individual users, electric new energy field, passenger vehicles, rental cars, rental vehicles, etc.

1.3 Product Pictures

1.4 Product description

1.4.1 SIM Card Installation Methods

The device uses a standard SIM card. The cardslot is a self-ejecting cardslot with the chip side facing the label side and the card notch facing inward.

1.4.2 Indicator description

Red light - Charging indicator

Status of the light	Implied meaning
Steady on	Charging
Not bright	Charging/shutting down

Yellow light -GSM indicator

Status of the light	Implied meaning
Flash once in 2 seconds	GSM initialization
Steady on	GSM communication is normal
Not bright	GSM sleep/shutdown

Blue light -GPS indicator

Status of the light	Implied meaning
Flash once in 2 seconds	Satellite signal search underway
Steady on	GPS/BDS located
Not lit	GPS/BDS sleep

1.4.3 Working logic

Normal mode: The working state transmits the position once every 30 seconds by default, and enters the standby state after 2 minutes of rest. The standby state device every5 minutes to transmit a heartbeat to keep the server connected, the vibration device can wake up to the working

state.

Power saving mode: The working state transmits the position once every 30 seconds by default, and enters the hibernation state after 2 minutes of rest. The hibernation state device does not transfer data, disconnect the server to save power, vibration device can wake up to the working state.

Intelligent mode: Set the data upload interval, and the device works according to the set interval time, working for 2 minutes each time, non-working time,The device is in hibernation state and cannot be awakened by vibration.

Remote switch: In the remote shutdown state, the device is in the standby state, the heartbeat is performed every 5 minutes, the device is displayed offline, and the shock occurs,move can not wake up, the background can operate remote boot, let the device work.

(In the above three modes of remote shutdown, the device will execute the remote shutdown process after receiving the instruction)

Timing switch machine: timing switch machine device to shutdown time after the device shuts down, after the boot will automatically turn on, switching process, can not operate the device, if you need to wake up need to manually turn on, timing switch machine in all modes will shut

down.

The above default state description:

Working state: The working light of the device is on, and GPRS and GPS are in working state.

Standby state: device heartbeat transmission, GPRS work (heartbeat data upload), GPS does not work.

Hibernation state: The device is in hibernation state, and GPRS and GPS are not working.

2. **Function Features**

- With low electric alarm, vibration alarm, overspeed alarm, fall off alarm and other functions;
- Support electronic fence function, users delimit virtual electronic fence through the platform /APP, when the equipment in and out of the fence can be identified by the platform and issue an alarm;
- Can send alarm SMS/phone to the guardian number when the alarm occurs, and the alarm is uploaded to the platform at the same time;
- The terminal adopts industrial-grade high stability GPRS module, built-in GSM high sensitivity antenna, support TCP/IP data transmission, support domain name /IP address connection server;
- Built-in large capacity memory chip, support offline state data storage, blind area data transmission; When the vehicle is in the wireless signal is weak or serious interference place, the vehicle will temporarily store the data of the vehicle operation in FLASH, when the wireless signal is restored to normal, the data can be retransmitted to achieve no data omission;

- Built-in 3-axis acceleration sensor, integration of accurate acceleration algorithm, real-time acquisition of the vehicle's current attitude and other vehicle conditions judgment;
- High-sensitivity GPS/BDS dual-star positioning module, anti-interference ceramic antenna, more stable star search signal, support AGPS fast positioning and tracking, synchronous timing;
- Real-time view position, 24 hours worry-free care.

3. Product Parameters

3.1 Hardware specification parameters

Items	Feature name	Function Description		
Electrical characteristics	Mode of power supply	Battery powered		
	Operating voltage range	DC 3.4V - 4.5V		
	Operating current	4V/ Average 65mA		
	Standby current	4V/ Average 8mA		
	Resting current	4V/ average 3mA		
	Built-in battery capacity	1700 mAh (3.7V polymer battery)		
Environmental characteristics	Operating temperature range	-20℃ -75 ℃		
	Storage temperature range	-30℃ -80 ℃		
	Operating humidity range	10%-85% RH does not coagulate		
Communication characteristic	Communication module brand/chip model	SIMCOM 7670SA		
	Communication frequency bands	LTE/4G	LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28/B66	
		GSM/2G	850/900/1800/1900MHz	
	SIM card	Standard SIM card (large card)		
	Communication antenna	Built-in antenna		
	Antenna specification	FPC antenna		
GPS/BD positioning features	Positioning module brand/chip model	Zhongke Micro AT6558R		
	Positioning method	Beidou +GPS+LBS		
	Cold start time	32 seconds on average		
	Hot start time	Average 1 second		
	Tracking sensitivity	-162 dBm		
	Positioning an	Built-in antenna		
	Antenna specifications	6mm * 4mm * 2mm		
	GPS band	L1: 1575.42±1.023MHz		
	Beidou Band	B1: 1561.098±2.046MHz		
	Number of satellite	32		

	channels	
	Positioning accuracy	<10m (1σ)
	Timing accuracy	<30ns (1σ)
	Accuracy of speed measurement	<0.1m/s (1σ)
	Maximum acceleration	4g
	Maximum speed	515m/s
	Maximum height	18000m
External interface	Light sense	1 Way
	Microphone	Built-in 1 way microphone
Form factor	Host dimensions (length, width and height)	58mm * 58mm * 22mm
	Case material	ABS plastic
	IP protection rating	IP65
	Strong magnetic	5 ring magnets
	Engine weight	60g