

4G CAT.1 Vehicle terminal device

Product User Manual

Product Name: vehicle positioning terminal

Product model: KG-04



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I. Product composition

1.1 Product overview

Product Name: GPS TRACKER

Product model: KG-04

Product specifications: 89mm*44.5mm*14.5mm

1.2 Product picture



1.3 Product configuration list

1.3.1 Standard list

No	Name	Quantity	Unit	Remark
1	KG-04 host	1	PCS	
3	Package box	1	PCS	
4	Power cable	1	PCS	7 PIN
5	Velcro	1	PCS	

Note: The above is a standard configuration list of the whole set of products, and accessories outside the above range are subject to additional fees.

1.4 Interface Definition of Product



No	Color	Interface definition
1	White	ADC 6-36V
2	Green	ADC 0-15V
3	Blue	SOS
4	Black	GND
5	Orange	ACC
6	Yellow	Fuel-
7	Red	B+

1.5 Definition of Product Indicator

Indicator	GSM (Red)	Flash quickly: GSM is in initialization
		Flash slowly: GSM signals is normal
		Bright always: GPRS is online
		Not Light: Not yet received the GSM signal/Not insert sim card
	GPS(Yellow)	Flash quickly: Searching GPS signal
		Bright always: GPS has been positioned
		Not Light: GPS is in dormancy/Not working

II. Parameters of Device and Function Instructions

2.1 Parameter List of the Device

No	Item	Specifications	Remark
1	Working voltage	DC9V-90V	
2	Working current	40mA@12V(Static Current 15mA)	
3	Size	89mm*44.5mm*14.5mm	
4	Positioning way	GPS	
5	Positioning accuracy	<10 Meters (This data is for reference only, and the positioning accuracy is related to factors such as the terrain and time of the vehicle)	Test Data
6	Communication Network	4G Cat.1 (LTE Band: B1/3/5/8/34/38/39/40/41)	
7	LORA	868MHz	
8	Communication Way	TCP	
9	Working Temperature	-25°C~ +75°C	
10	Storage Temperature	-40°C ~ +85°C	
11	Standby Battery	55mA/h	
12	Warranty	1 Year	
13	Net Weight	About 50g	

2.2 Function List of the Device

Functions	Function Details	Description
Location data report	Real-time tracking	Upload the longitude and latitude information according to the time interval.
Vehicle status detection	ACC on/off status	Uploaded data include the ACC on/off status each time. (you should connect the ACC cable of the car)
	Power off alarm	Turn on backup battery, when the vehicle voltage is lower than 5v, the device upload a alarm to the server
	Over speed alarm	Set the maximum speed limit value on the platform or SMS, when the GPS speed is more than the value, the device will upload a alarm to the server
	Control fuel	Cut off/supply fuel remotely through server or SMS
Other functions	Blind area uploading data	Stored the data in the device when the terminal is located and offline, upload this data when the signal is good
	Inflection upload	When the angle of the vehicle turns is more than a certain angle, the device will upload a position information to the platform to optimize the trajectory.
	Upgrade remotely	Need assistance of factory
Low power consumption	Static mode	The 3D triaxial acceleration sensor(device built-in G-Sensor) detects vibration status of vehicle in real time, when the car is moving, the device is in motion mode; the device will change to static mode after 5 minutes without vibration, close the GPS module, when vibration is detected, the device automatically changes to motion mode.

2.3 Installation Process of Product

2.3.1 Installation

Check Device

Check whether the appearance of the device is good and whether the related accessories are complete.

Install SIM card

Open the device SIM card into the card slot. Please avoid overexertion is damaged, please make sure that a SIM card with Internet access, only at the same time satisfy the electricity and insert SIM card terminal can work normally.

The position requirements of terminal installation

A. **Waterproof:** choose place which is not easy to fill the position, kept terminal dry, pay attention to be far away from the air-conditioning outlet in case of the changes of temperature. Have condensed

water accumulated inside the terminal seriously affect the service life of the product.

B. **Shock:** terminal can't hang up installed in strong vibration position for a long time.

C. **Tamper-proof:** terminal should be away from the car video intercom and electronic equipment, such as to prevent conduction and radiation.

2.3.2 SMS Setting format

Exactly format:

Set IP Online:

<SPBSJ*P:BSJGPS*T:120.025.232.237,7788*A:CMNET*N:13288888888*C:0030>

SPBSJ: Header

P: Password (Default Password: BSJGPS)

T: TCP IP and Port

A: APN

N: Device Number

C: Time Interval (Seconds)

III. Analysis of Common Problems and After-sales Service

3.1 Analysis of Common Problems

Question	Reason	Solution
Online tracking offline	SIM card not enough credit	Charge credit or change
	SIM card contact problem	Install SIM card again or change
	Online tracking parameter setting error	Reset Parameters with correct format according to user manual
	Vehicle in underground car parks or tunnels, signal weak.	Go to good signal area
Cannot positioning	Vehicle in underground car parks or tunnels	Leave that area
	GPS Antenna side is not up to sky	Make the GPS antenna side up to sky

3.2 Attention

1. Electronic product please note waterproof.
2. Please keep the backup battery is enough.
3. When the temperature of the environment is more than the normal work of the terminal temperature range, advice without electricity.
4. When the vehicle in an underground parking lot, tunnel or garage, will influence the positioning signal. And possible communication network signal blind area lead to equipment can't monitor; after the vehicle out of the above areas, equipment will automatically return to normal work.
5. In abnormal situation, please do not repair itself. By linking the original attachment or unplug the connection between the various components damage, manufacturer is not liable.

3.3 After-sale service

1. During the one-year warranty, please feel free to contact us if there is any problem or damage not caused by human factors.
2. Not maintenance:
 - (1) Client dismantled privately
 - (2) Force majeure (floods, accidents, etc.)
3. More than one year damage or faulty maintenance will need to pay for raw material.
4. Free to provide customers with the purchase, use, installation and other consultation and technical services.

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device under Part 15 of the FCC Rules. These limits are designed to protect reasonably against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used by the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Suppose this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. In that case, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment to an outlet on a circuit different from the receivers.
- (4) Consult the dealer or an experienced radio/TV technician for help.

Radio Frequency Exposure Statement

The device has been evaluated to meet general RF exposure requirements. The device can be used in fixed/mobile exposure condition. The min separation distance is 20cm.