

The 4G-CAT1 Q series specification (V1.0)

Preface

Please read this function manual in detail before installing the vehicle wireless terminal. The appearance picture is subject to change without notice.

Please carefully check the items in the packaging box before installation. If there is any omission, please contact the dealer immediately. The equipment is a security product, only used in legal scenes. If it is used in illegal scenes, disputes and legal liabilities have nothing to do with our company.

4G-CAT1 Q series, the product is a micro locator used for personnel or asset monitoring and management. Mainly used for the elderly, children or field personnel, rental vehicles, credit vehicles, valuables storage and transportation, auto finance risk control, etc. The equipment has the characteristics of low power consumption, anti-removal alarm and good concealment.

1. Product characteristics

Feature function: Standard 808 standard protocol. Support G-sensor speed sensing, judge the device wake up, dormancy, vibration alarm. Internal light sensor, support anti-disassembly alarm function. FOTA mobile terminal aerial download software upgrade to upgrade the devices with network function remotely through cloud upgrade technology.

2. Description of functional features

Functions and characteristics	Function declaration
Accurate positioning	High sensitivity GPS & BD positioning module, accurate modulation of RF Parameters, support GPS, BD, LBS, WiFi multiple positioning
The network is reliable	Fully compatible with 4G network LTE B5/38/41)
Real-time location and track tracking	Intelligent dynamic reporting, embedded inflection point compensation, blind spot supplement reporting algorithm
Intelligent working mode	Power saving mode motor pattern Real-time online mode Roll Call mode (Q1 / Q3)
Low power consumption, standby length	Dormant type long standby, high concealment. Long standby and real-time track tracking mode free switch, power saving and tracking each other.
long-range FOTA	Remote update and upgrade the device program
Remote sets the terminal parameters	Support the SMS mode to set the terminal parameters
Used in many ways	SMS, web page, APP
Shock alarm	Vehicle vibration is an intelligent reminder
Multiple security guarantees	The electronic fence function is supported. Users can delimit the virtual electronic fence through the platform / APP. The devices can be recognized by the platform and alerted when entering and leaving the fence. Support light sensing alarm, removal alarm

	and other multiple alarm work ability. It can be uploaded to the platform when the alarm occurs.
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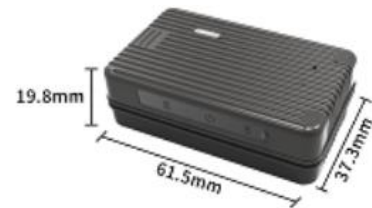
3. Technical parameters

location mode	GPS, BD, LBS, and WiFi for multiple positioning
Work frequency band	2.4GWIFI:2412-2462MHz LTE B5/38/41
cell	Polymer lithium battery
positioning accuracy	10 m (this data for reference, positioning error and the terrain of the vehicle is timely Among other factors)
working temperature	-25℃~+75℃
Working humidity	5%~95% do not condense
Storage temperature	-40℃ — +85℃
way to install	Strong magnetic adsorption
Standby current	≤2mA
GPS sensitivity	160dBm

Battery capacity, voltage and power consumption			
model	battery capacity	voltage	working current
Q1	1250 mAh	DC 5V	1. Movement mode (WiFi is preferred) is 7 mA
Q3	1500 mAh		2. Movement mode (GPS is preferred), 17.4mA
Q5	5000 mAh		3. Intelligent mode is in a stationary state of 6.2 mA
Q7	10000 mAh		4. Timing upload mode is 6.5 mA 5. Power saving mode is 3.1 mA 6. Deep dormancy mode is 4.2 mA

4. Product usage

1. SIM card insertion, open SIM card plug



This device needs to insert a traffic card traffic card with the GPRS traffic and SMS function. Please use the Nano card, as shown in the figure below



2. Indicator lamp

Equipment switch: Long press open key 5-6 seconds, three lights at the same time.

indicator status: power indicator constant in charging the device until the device is fully charged

Note: When the key fails to activate the indicator, the equipment power may run exhausted and the device should be charged

pilot lamp	Always on (press the key activation indicator constant for 40 seconds)	Slow flash
Power supply indicator light (red)	Equipment charging	
LTE indicator lamp (green)	Networking success	Is the search net
GPS indicator light (blue)	Has been positioned	Search for positioning

5. Product configuration list

Accessories name	quantity	Standard / optional
main engine	1	standard configuration
USB cable	1	standard configuration
instructions	1	standard configuration

FCC Warning:

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.