

4G Vehicle GPS Tracker

Product manual

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Model No: KS-199D

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? Product Features

? ? Supports multiple alarm functions such as vibration alarm, power failure alarm, overspeed alarm and illegal start alarm;

? ? Support electronic fence function, the user through the platform / APP virtual electronic fence, when the device in and out of the fence can be recognized by the platform and send out an alarm;

? ? Alarm SMS/calls can be sent to the guardianship number in the event of an alarm, 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, supports TCP/IP data transmission and domain name/IP address to connect to the server;

? ? Built-in high-capacity memory chip, supports data storage in offline state, and complementary transmission of data in blind area;

? ? Built-in 3-axis acceleration sensor, fusion of accurate acceleration algorithm, real-time access to the vehicle's current attitude and other vehicle conditions judgment;

? ? High sensitivity GPS/BDS dual-star positioning module, anti-jamming ceramic antenna, more stable star search signal, support AGPS fast positioning tracking, synchronous timing;

? ? In hibernation mode, abnormal vibration alarms and other vehicle startup, shutdown and hibernation automatically report messages;

? ? Low power consumption energy saving mode, accurate and error-free judgment of the car ignition off state, intelligent sleep and wake-up mechanism, can reduce the average power consumption of the whole system.

?

? Product Parameters

Item

Functions

Description
Electricity
Character
Power supply
Backup Battery

Work Voltage
DC 9V - 95V

Work Current
12V/ average 40mA

Sleep Current
12V/ lower than 10mA

Internal Battery
140mAh (3.7V Polymer battery) Optional
Environment
Character
Work Temp
-20? - 75?

Storage Temp
-30? - 80?

Work Humidity
10%-85% RH non-condensing

Communication
Character
Module Brand/Chip Model
SIMCOM 7670

Frequency Bands
7670SA
LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28/B66
GSM:B2/B3/B5/B8

7670E
LTE-FDD:B1/B3/B5/B7/B8/B20
GSM:B3/B8

7670C
LTE-FDD: B1/B3/B5/B8
LTE-TDD: B34/B38/B39/B40/B41
GSM:B3/B8

SIM card
Standard SIM card

Antenna
Built-in antenna

Antenna spec
PIFA antenna
GPS/BD LocationCharacter
Module Brand/Chip Model
ZKMicro AT6558D

Location mode
BDS+GPS

Cold Start
Average 32S

Hot Start
Average 1S

Sensitivity (tracking)
-162 dBm

Antenna
Built-in antenna

Antenna spec
25mm * 25mm * 4mm

GPS frequency bands
L1:1575.42±1.023MHz

BDS frequency bands
B1:1561.098±2.046MHz

Satellite channel
50

Location accuracy
<10m

Timing accuracy
<30ns

Speed measurement accuracy
<0.1m/s

Max Acceleration
4g

Max Speed
515m/s

Max height
18000m
External port
ACC detection input
be in favor of
Shape
Device Dimension
90.6mm * 57mm * 20mm

PCBA Dimension
85mm*35mm*7.6mm

Housing Material
ABS plastic

IP Grade
IP67

Unit weight
68g
? Getting to Know KS199D

Three-wire model (does not support remote fuel cut-off function)

Four-wire model (supports remote fuel cut-off function)

? Equipment wiring methods
? the red wire is the positive pole of the power supply, black is the negative pole of the power supply.
? ACC line (orange line) connected to the vehicle's ACC switch; need ACC automatic anti-theft function, be sure to connect the ACC line, the device will be ACC state to determine whether to enter the state of defense; if not connected to the ACC line, will make the vehicle enter the state of defense, in the state of defense the vehicle running vibration, vibration will be triggered by the alarm.
? The oil and electricity control line (yellow line) is connected to the thin yellow line on the disconnecter (optional), 4-wire equipment support.
? installation, should make the GPS antenna face to the sky, the installation location above must be no electromagnetic wave absorption material (such as metal, explosion-proof heat insulation film) blocking the place.
? Power on: load the SIM card in the right direction, connect the wires according to the terminal wiring schematic, then toggle the power switch to power on.
? Setting: It must be done, otherwise other operations can not be carried out, use the owner's cell phone to send SMS to the terminal SIM card number to set the owner's number and specific number.
? Registration: the registration method is different according to different platforms, please consult the dealer.
?
? Working logic
The equipment is installed, and when the yellow and blue lights are always on, the equipment enters the normal working state.

working logic?ACC open device does not hibernate device uploads a dataevery 20 seconds, ACC off quiescent 10 minutes after the device hibernation, hibernation after the device only passes heartbeat data, there is a vibration detected during the period of quiescence, the device is re-timed for 10 minutes to hibernate.

vibration alarm?After setting up the defense, the vibration equipment will trigger the vibration alarm, and after the vibration alarm is triggered, it needs to be stationary for 5 minutes before the alarm can be triggered again.

Displacement Alarm?Defend and equipment for positioning state, set the displacement alarm distance, equipment traveling over the line distance will report displacement alarm, and the equipment will be automatically disarmed.

Power failure alarm?After the device is connected to the power supply,the device will judge the access to the power supply, when disconnecting the power supply of the device after 3 seconds, the device triggers a power failure alarm and uploads it to the server.

Illegal start alarm?After turning on the illegal start alarm, when the device is armed and ignited in the undisarmed state, the device will report the illegal start alarm. (ACC needs to be connected correctly)

? Indicator Description

Light Color

The state of the lamp

meaning

Red Light

?power supply?

always on

working properly

not lit

shut down

Yellow Light?GSM?

Flash 1 time in 2 seconds

GSM initialization

Solid on

GSM communication is normal

Not lit

GSM hibernation/shutdown

Blue light?GPS?

Flash 1 time in 2 seconds

Satellite signal searching

Solid on

Targeted

Not lit

dormancy

? SMS commands

search function

SMS command format

Equipment response

Terminal status query

CXZT

version?ID?IP information

Latitude and longitude link query

G1234

Google address

Restart device

CQ

CQ OK

Restore factory settings

FORMAT

FORMAT OK

Modify APN

APN,123456,cmnet

APN SET OK

Modify APN username

APNUSER,123456,user

APNUSER SET OK

Modify APN password

APNPASSWD,123456,password

APNPASSWD SET OK

Ignition/motion upload time settings

FREQ,123456,30

FREQ SET OK

Shutdown upload time settings
STATIC,123456,40
STATIC SET OK
Server IP port modification settings
IP+space+IP+space+port
???IP 888.88.888.888 8888
IP SET OK

? Trouble shooting

When operating the GPS device, if it is not work properly, please refer to the following problems and solutions; if the problem still cannot be solved, please contact the dealer.

Common Problems

Reasons

Solutions

Poor signal

Test at areas where there are high buildings or underground parking lots, where radio waves cannot be sent or received normally.

Use it at a good signal place

platform shows device not activated after first installation

Main power supply connected correct or

not

Do not connect to the main control line of the vehicle

SIM inserted not correct

Check the SIM card

Check LED status

Check if the indicator is blinking or steady

SIM without GPRS activated or SIM card out of charge.

Please contact carrier to activate GPRS or charge

Ip and port not correct (can check by SMS command)

Revise the ip and port by SMS command

Platform map shows

incorrect location

GPS not locate

Please go to outdoor place where GPS

signal is good

Vehicle did not move after installation

Please drive the vehicle on the road

ACC connected or not

Connect the device and turn on ACC

Platform shows the main power disconnect

Poor power supply connection

Check whether the power supply line of

the device connected correct or not

Platform shows device offline

SIM card out of charge, or GPRS was canceled

Please check your SIM card

Weak signal area

Please try again at good signal area

? Important Notes

? Please pay attention to the waterproof of electronic products.

? Please insert the SIM card before installation, make sure the SIM card is not set password, otherwise the device can not work properly.

? Above the installation location must be a place that is not covered by electromagnetic wave absorbing substances (e.g. metal, explosion-proof heat insulation film).

? Do not put the device in contact with liquids or operate it with wet hands.

? Do not put the device into a fire!

? The device may not work at temperatures below -20°C or above +60°C.

? When the vehicle is in an underground parking lot, tunnel or garage, the positioning signal will be affected. And there may be communication network signal blind area causing the device can not monitor; when the vehicle drives out of the above area, the device will automatically return to normal work.

? Please do not repair the device by yourself when encountering abnormal situations. The manufacturer is not responsible for damages caused by connecting non-original accessories or unplugging connections between components.

? This product is a safe driving aid product, any damage caused by malfunction or loss of information has nothing to do with our company.

? This product has passed the international CE certification, but because of the complexity of the electromagnetic environment in the car, this product may be in some models and the car electrical equipment electromagnetic interference.

? Do not install or operate this product while the vehicle is in motion.

? Do not connect the uninterruptible power supply without authorization, as this may cause the car or the product to malfunction, and please be sure to consult a professional regarding installation.

? Do not subject the product to strong shocks or vibrations, which may damage the product and cause it to malfunction or become inoperable.

? The temperature range for normal use of this product is -20 degrees Celsius to 65 degrees Celsius, beyond which the product may malfunction, catch fire or explode.

? After-sales service

1. This product from the date of shipment, enjoy three months replacement, one year warranty service. Warranty period is non-human factors or product quality caused by equipment damage, please contact the dealer in a timely manner to deal with.

2. The damage caused by the customer's private dismantling or force majeure (such as floods, vehicle accidents) will not be repaired.

3. After the expiration of the warranty period, due to the use of product damage, failure, need to charge the cost of maintenance materials.

4. Free of charge to provide customers with product purchase, use, installation of APP and other consulting and technical services.