

Omni Intelligent Vehicle GPS Tracker

This [vehicle gps](#)

[tracker](#) can be used for cars, electric bikes, motorcycles, fleets, agricultural machines and construction machines.

What are features of this vehicle GPS tracker?

1. Support vehicle's real time control and the report state query Perfectly.
2. GPS real time positioning,faster and accurate,no incertitude and worry.
3. Anti-theft alarm and vibration monitoring,a great protective tool,no suffering great loss.
4. A geofence generated, great help as the vehicles can be in a radius around a point location or a predefined set of boundaries.
5. Robust and secure bluetooth communcation.
6. The past 180days'historical track playback supportive,it's clear about any driving track and time record.
7. Various voice warning,voice is customized.

Super functionality (This vehicle gps tracker can be called IoT device for all vehicles'tracking)

1. Two positioning modes supported:single positioning mode and continuous positioning mode, with executing remote command,the vehicles location details can be checked,and positioning works with GPS,GLONASS,BeiDou,Galileo,WIFI;
2. 4G communication: With supported controller, this IoT locator can remotely access to vehicles' location, battery power, temperature and other information through server command, and meanwhile, the riding speed and low battery alarm value can be remotely set by server command as well.
3. Vehicles'unlock: support bluetooth 5.0 communication,user phone APP scan vehicle's QR code,through phone network,the unlock command is sent to server,the server sends the unlock command to APP,which then sends the

command to the IOT through Bluetooth to unlock the vehicle;

Unlocks with network: when the mobile APP scans the QR code on the lock, the APP sends a command to IOT, which uploads the command to the server through the network. After receiving the command, the server sends the command to IOT to unlock the car.

4. Security supported: it's built-in IoT and has an acceleration sensor for detecting vehicle vibration, when vehicle unlocks but vibration happens, IoT device actively sends a command to server. And meanwhile, the IoT device will issue an audible alarm.

5. Vehicle faults reports to server via IoT device while controller supported this function.

6. When the vehicle falls to the ground, the IoT device reports it to the server.

7. When delivering, the IoT device can turn into transport mode to reduce battery consumption.

8. Using this IoT device, APP can exist transport mode directly while charging or not

(Controller support required with this function).

9. OTA upgrade supported.

More specifications of Omni vehicle gps tracker

INTELLIGENT ALARM

Keep track of vehicle information at any time



Vibration alarm

Built-in high sensitive vibration sensor, immediately notify to the server when vibration is detected



Low power alarm

When the power of the device is less than 20%, report a notice to remind charging



Overspeed Alarm

A speeding alert will be sent immediately if the vehicle exceeds the set speed

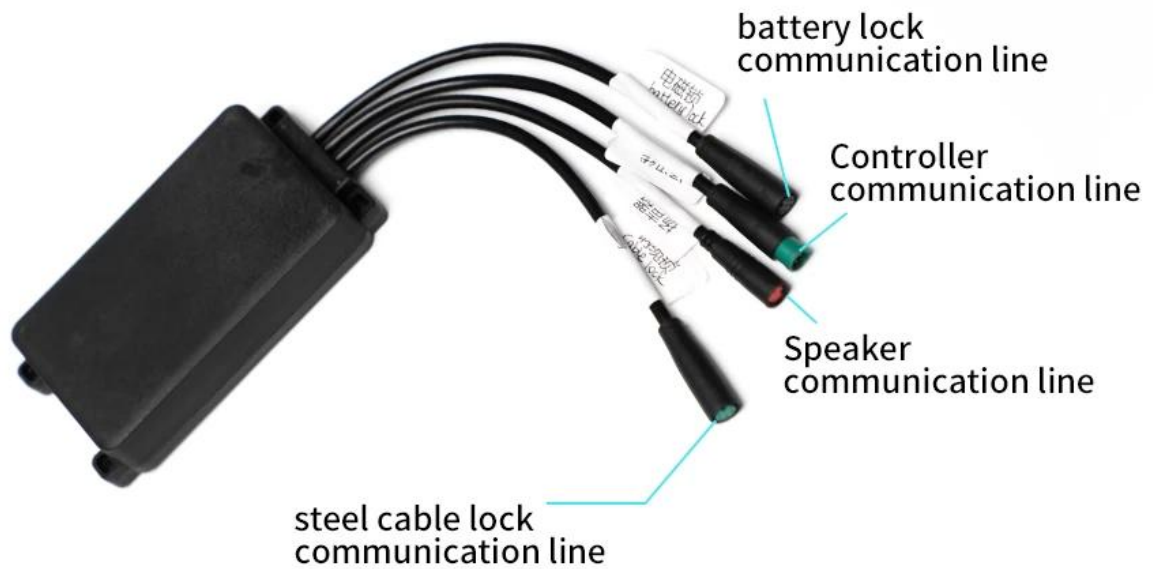


Fall onto ground Alarm

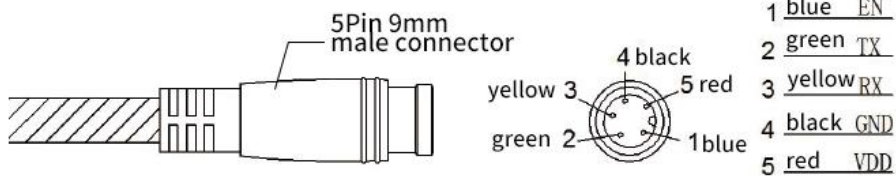
When the sensor detects the the vehicle falling onto ground, it reports to the server via IoT



WIRING INSTRUCTIONS



Controller interface definition



MAJOR PARAMETERS



Communication with Controller

UART

Voice promote

Built-in several alert voice notice, voice range $\geq 70\text{dB}$ (Voice can be customized)

Vibration detection

Triaxial accelerometer

Working voltage

24-48VDC

Built-in battery

3.7V/350mAh

Working humidity

10~93RH

Working temperature

-20°C ~ +60°C

Location

Support GPS, GLONASS, BeiDou, Galileo, WIFI assistant location system

SIM card

Micro size (Micro-SIM)

Dimension of the device

LxWxH: 109mm × 58mm × 21.2mm (not including the wire)

Waterproof& dustproof

IP67

Communication with cloud server

TCP Socket

Starting time

Cold startup less than 120seconds, Warm startup less than 20 seconds, (Open area, weather is sunny without shade, including coordination optimization)

Sensitivity

-158dBm

Working current

$\leq 500\text{mA}$ (24-48VDC)

Built-in battery life

>2h (25°C)

Storage temperature

-40°C ~ +80°C

Location precision

$\leq 15\text{meters}$ (Open area, weather is sunny without shade.)

Location condition

Search satellites numbers ≥ 4 satellites and signal noise over 30dB

Outside shell material

PC+10%GF