

Global connectivity

**Global 4G Cat.1
With 2G Fallback**

Install Free

Extended Sensors :

**Pair With External BLE
Sensors**

AOVX

Temperature
Accuracy :
±0.5 °C

Usage Area
Global

IP67
Rugged

Battery types :
Disposable Li-SOCl₂ 10400mAh



Sensors

**Temperture Humidity
Motion Light Pressure**

Positioning Technology

GNSS/Cell ID / WiFi



Dimensions:
116mm ×69mm ×22mm

2023 PRODUCT SPEC

“ THE DATA THROUGH THE WHOLE SHIPMENT IS CRUCIAL , SO WHAT WE NEED IS NOT ONLY TRACKER , BUT ALL DATA . ”

Aovx G series tracker devices are ideally for tracking and temperature monitoring of cold chain , food and fruits storage and transportation, ultra thin 8mm, just put it with goods requires monitoring .

Integrates global connectivity by cellular network 2G,4GCat.1 , NB-IoT and Cat.M1 without data plan contract .

Aovx G series tracker devices have integrated multiple sensors for monitoring of movement , vibration , tampering , delay , temperature, humidity and geofence . Indoor and outdoor positioning supported by WIFI ,LBSand GPS,GLONASS ,GALILEOand BEIDOU . Short range wireless BLE[Bluetooth Low Energy] is flexible for easy configuration , pair with external BLE sensors or accessories , which makes G series tracker device working as BLEgateway .

Aovx data is always crucial for assets management , which has been encrypted , data buffer capacity and uploaded via TCP/MQTT protocols ,make it easy to deploy in the cloud platform. Firmware over the air OTAis always important for after sale maintainece .

Aovx insight platform view location and condition data of your shipments in realtime to ensure on time and in full delivery , specify the constraints relevant to your shipments and receive notifications when issues arise and create detailed reports to share with customers and analyze your data to identify improvement opportunities.



“AOVX VISION IS TO HAVE SHIPMENT FULLY TRANSPARENT , WHERE THE ASSETS ARE ALL IN SAFE AND UNDER CONTROL ”

" People in the world are connected by mobile phone in the daily life , they share the location , emotion in the internet . At the age of IoT , we are thinking about if it is possible to have a basic functional mobile phone for these assets , which make them connected and have their data managed , it would make shipment smater and make assets safer .That's the reason why Aovx is here . Aovx team members are from Quectel , Queclink , Hikvision and Sony . Strong knowledge of cellular modules ,worldwide network and regulatory in tracker field .

Aovx assets tracker solutions corp. is committed to protecting the assets in warehouse and in-Transit process , rather than location service , assets condition is also under monitored - vibration status , temperature alert embedded with multiple sensors and wireless technology , 4G LTE , NB-IOT and Cat.M1 , WIFI and BLE .

Supported by "service consciousness, customer experience, executive action " business philosophy, continue to provide customers with stable and reliable product and technology sales services, grow together with customers success."

RICKY GUO

CEO

Aovx assets tracker solutions corp.



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OVERVIEW



GOODS MONITORING GL200
Optional Device Case
STD device without snap-on device case

FEATURES

General Specification

Operating Temperature	-20, C~+70, C
Dimensions	116mm x69mm x22mm
Weight	Approx. 170g
Firmware Upgrade	USB interface, OTA
Data Encryption*	TEA, AESor RSA*(optional)
Stand-by Current	≤80uA
Battery Life	440 days @ 1 report per 1 hour and GNSS ON for Li-SOCI2 10400mAh 450 days @ 1 report per 1 hour and GNSS OFF for Li-SOCI2 10400mAh 2450 days @ 1 report per 1day and GNSS ON for Li-SOCI2 10400mAh 2600 days @ 1 report per 1 day and GNSS OFF for Li-SOCI2 10400mAh
Waterproof Grade	IP67

Global Network

Variantforthe Global

LTE-FDD	FCC:B2/B4/B12 CE:B3/B8/B20 TELEC:B1/B3/B8/B18/B19/B26
GSM	GSM850/PCS1900

General Specification

Horizontal Position Accuracy	Autonomous: <2.5m CEP
Velocity Accuracy	Without Aid: <0.1m/s
Acceleration Accuracy	Without Aid: <0.1m/s ²
Reacquisition Time	<2s
TTF (Turn on AGNSS)@(Room temperature, satellite signal -130 dBm test.)	Cold Start: 5.5 s Hot Start: 2 s
TTF (Turn off AGNSS)@(High-precision antenna, open space.test)	Cold Start: 30 s Hot Start: 2 s

Buffer Storage:

GL200	24000 messages@ basic data length is 43 bytes
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Hardware Features

USB	× 1, Type-c
(U)SIM Interface	× 1, 1.8V,Nano SIM card eSIM (Optional)
Cellular Antenna	internal
GNSSAntenna	internal,GPS/ GLONASS/ BDS/ Galileo/ QZSS
LED	× 2, Power Light, Status Light
WLAN:	2.4 GHz 802.11b (Rx)
Bluetooth	BLE 5.0
Motion Sensor	Gravity Measurement Range: ±2g/±4g/±8g/±16g ODRBandwidths: 1Hz ~ 400Hz
Light Sensor	Measuring Range: 1~ 100LUX(adjustable levels)
Temperature and Humidity Sensor	Humidity Measurement Accuracy: ±2% RH@-40. C~+55. C Temperature Measurement Accuracy: ±0.5. C ,@-40. C~+55. C
Battery Capacity	10400mAh(Optional)

Air Protocol

LTE(Cat 1)	LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8.96Mbps (DL)/Max 3.1Mbps (UL)
GSM	Max 85.6Kbps (DL)/Max 85.6Kbps (UL)
Transmit Protocol	TCP,UDP,MQTT,SMS
Working Modes	Periodic mode Periodic mode+Trigger mode Traking mode+Trigger mode Conditional mode Sampling mode Flight mode
Scheduled Timing Report	Report position and status at preset time intervals
Geo-fences	Support up to 5 internal geo-fence regions(Plaform)
Alarm function	
Low Power Alarm*	Alarm when internal battery is low*
Motion Alam	Motion detection based on internal 3-axis accelerometer
Light Alam	Light detection based on phototransistor
Temperature and humidity alarm	Temperature and humidity detection based on temperature and humidity sensor



Aim of Valuables

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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.

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, 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.

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.