

Global connectivity

**2G 4G NB-IoT and  
Cat.M1**

**Indoor and out-  
door Positioning**

**Extended BLE  
Sensors**



Data Encryption:

**TEA, AES or RSA (optional)**

**Global Location  
Technology :**

GNSS/LBS/WIFI

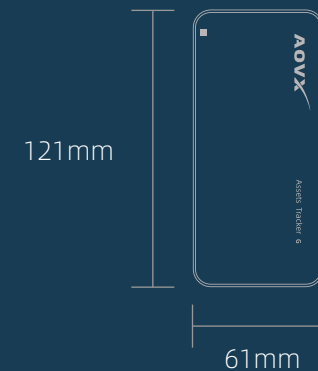
Battery Life:

**1 Year @ 1 report per day**

Shell Material:

**Food Grade  
Materials**

**Easy to put it  
with goods**



Dimensions:

**121mm × 61mm × 8mm**

**AOVX**

**Ultrathin  
8mm**

Temperature accuracy

**±0.5**

**2022 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,4G Cat.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 ,LBS and GPS ,GLONASS ,GALILEO and 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 BLE gateway .

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 OTA is always important for after sale maintainece .

Aovx insight platform view location and condition data of your shipments in real time 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 smarter 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

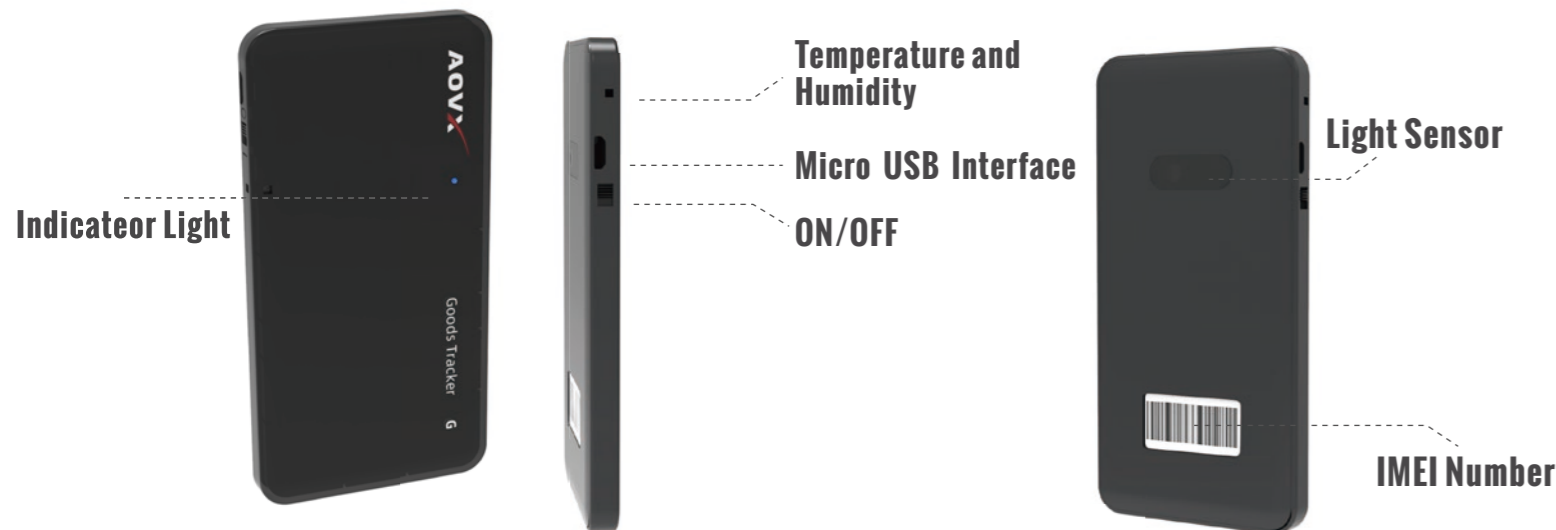
CEO

Aovx assets tracker solutions corp.



LinkedIn  
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## OVERVIEW



## FEATURES

### General Specification

Operating Temperature	-20°C ~ +70°C
Dimensions	121mm × 61mm × 8mm
Weight	Approx. 85g (GG100), 90g (GL100), 88g (GM100)
Firmware Upgrade	USB interface, OTA
Data Encryption	TEA, AES or RSA(optional)
Supply Voltage	3.7V Rechargeable
Stand-by Current	≤80uA
Battery Life	1 Year @ 1 report per day

### Global Deploy

#### • Variant for the Global

GM100-GL (Cat M1)	LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25 /B26*/B27/B28/B66/B71/B85 GSM: 850/900/1800/1900MHz
GL100-GL* (Cat 1)	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/ B20/B25 /B26/B28 GSM: 850/900/1800/1900MHz
GG100-GL* (GSM only)	GSM: 850/900/1800/1900MHz

#### • Variant for China/India

GL100-CN* (Cat 1)	LTE FDD: B1/B3/B5/B8 LTE TDD: B34/B38/B39/B40/B41 GSM: 900/1800MHz
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#### • Variant for EMEA

GL100-EM (Cat 1)	LTE FDD: B1/B3/B5/B7/B8/B20/B28 GSM: 850/900/1800/1900MHz
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#### • Variant for Latin America

GL100-LA (Cat 1)	LTE FDD: B2/B3/B4/B5/B7/B8/B28/B66 GSM: 850/900/1800/1900MHz
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#### • Variant for North America

GL100-NA* (Cat 1)	LTE FDD: B2/B4/B5/B12/B13/B25/B26
GM100-NA* (Cat M1)	LTEFDD: B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/ B25/B26*/B27/B28/B66/B71/B85

### General Specification

Horizontal Position Accuracy	Autonomous: <2.5m CEP
Velocity Accuracy	Without Aid: <0.1m/s
Acceleration Accuracy	Without Aid: <0.1m/s <sup>2</sup>
Reacquisition Time	<1s
TTFF @-130dBm with EASY™:	Cold Start: <15s; Warm Start: <5s; Hot Start: <1s
TTFF @-130dBm without EASY™	Cold Start: <35s; Warm Start: <30s; Hot Start: <1s

## Hardware Features

USB	× 1, Micro
(U)SIM Interface	Nano SIM card
Cellular Antenna	internal
GNSS Antenna	internal, GPS/GLONASS/BeiDou
LED	× 2, Power Light, Status Light
WLAN:	2.4G (GG100-GL*)
Bluetooth	5.0 (GG100-GL*)
Motion Sensor	Gravity Measurement Range: ±2g/±4g/±8g/±16g ODR Bandwidths: 1Hz ~ 400Hz
Light Sensor	Measuring Range: 1~ 1000 (adjustable levels)
Temperature and Humidity Sensor	Humidity Measurement Accuracy: ±2% RH@+10°C ~ +70°C Temperature Measurement Accuracy: ±0.5°C , -20°C ~ +70°C
Battery Capacity	2500mAh(Li-ion Polymer Battery, USB 5.0 V charging)

## Air Protocol

LTE (Cat 1)	LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8.96Mbps (DL)/Max 3.1Mbps (UL)
LTE (Cat M1)	LTE FDD: Max 588Kbps (DL)/Max 1119Kbps (UL)
GSM	GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL) EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL)
Command Set	Track protocol command
Transmit Protocol	TCP , MQTT*
Working Modes	Power saving mode for long standby time Continuous mode for emergency tracking
Scheduled Timing Report	Report position and status at preset time intervals
Geo-fences	Support up to 5 internal geo-fence regions
Low Power Alarm	Alarm when internal battery is low
Wakeup Report	Report when the device wakes up
Motion Detection	Motion detection based on internal 3-axis accelerometer

## Buffer Storage:

GM100	50000 message
GL100	27000 message



Aim of Valuables

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