Global connectivity
2G 4G NB-IoT and Cat.M1

Indoor and out-door Positioning WIFI GNSS LBS

Extended BLE Sensors

Battery Life:
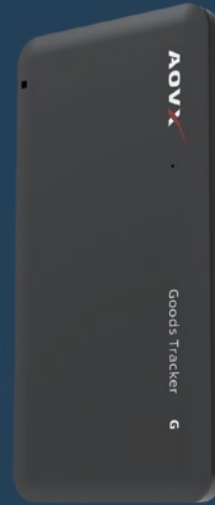**1 Years @ 1 report per day**

AOVX

Ultrathin 8mm

Shell Material:
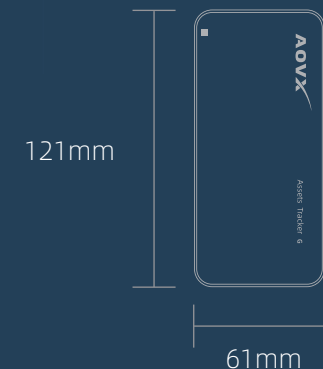**Food Grade Materials**

Easy to put it with goods

Temperature accuracy
±0.5

Data Encryption:
TEA, AES or RSA (optional)

Global Location Technology :
GNSS/LBS/WIFI

121mm

61mm

Dimensions:
121mm × 61mm × 8mm

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 maintaince .

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 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."
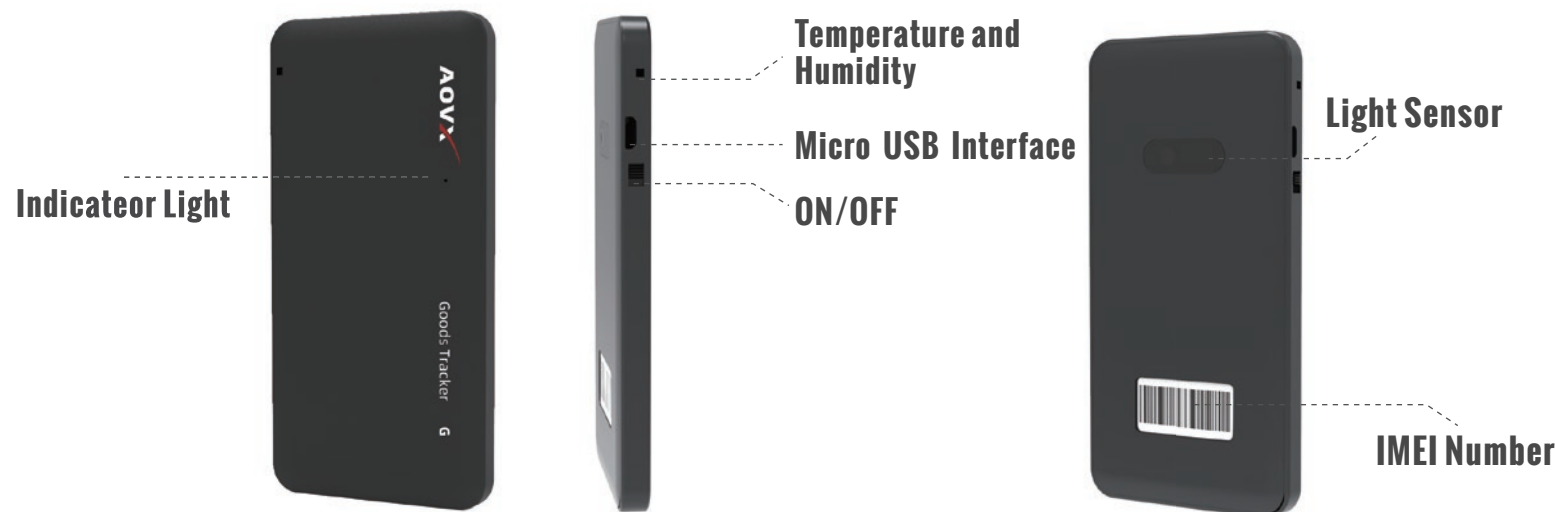
RICKY GUO
CEO
Aovx assets tracker solutions corp.

OVERVIEW

Indicateor Light

Temperature and Humidity

Micro USB Interface

ON/OFF

Light Sensor

IMEI Number

Goods Tracker G

AOV

GOODS MONITORING G SERIES

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

- **Variant for EMEA**

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

- **Variant for Latin America**

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

- **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/s²
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