



# Battery Powered Asset & Vehicle Tracker

Maximize efficiency. Minimize risks. Manage assets.



## AS31-2

### HIGHLIGHTS

Ideal for stolen vehicle, goods or other assets to be tracked with no installation process required. The battery-powered, small-size AS31-2 GPS tracker is designed to be used with internal non-rechargeable battery only for fast installation. It is a "Slap & Track" GPS tracker. The AS31-2 provides asset location tracking and receiving alerts when the asset has been moved or tampered with, plus many more features.

#### IT'S RELIABLE

The AS31-2 is a high-performance, IP67 rated device. It includes an integrated LTE Cat.M1 modem, a GNSS receiver, and a 3-axis accelerometer, for cellular data communication, location tracking, and motion detection respectively.

#### IT'S SIMPLE

With Non-chargeable batteries the AS31-2 can be easily used anywhere the tracking is required. AS31-2 can be programmed to wake-up on motion, upon a preset schedule. Reports can be triggered periodically or in response to events - such as removing, movement, geo-fence violations, and many others.

#### IT'S FUNCTIONAL

The AS31-2 comes with pre-configured software. Its internal motion sensor and configurable event alarms enable total management of your high-value assets. The device supports variable frequency reporting when moving or stationary.

- LTE Cat-M1
- Integrated cellular and GNSS antenna
- LED status indicators for GNSS and network registration
- Integrated accelerometer
- BLE5.0 support, low power consumption
- Large Non-rechargeable backup battery for up to 5 years of operation
- SMS, UDP, TCP, FTP & MQTT
- Up to 16 Geo-fences (polygon and circles)
- Over the air configuration and firmware update
- Extended AT Command set for flexible and easy configuration
- Easy installation
- IP67 Rating



## Specifications:

### CELLULAR

- CAT M1 LTE: 699/787/1710/1850/2155
- B2@20±1dBm/ B4@20±1dBm / B12@18±1dBm /B13@18±1dBm /B25@20±1dBm
- Integrated high performance antenna
- Auto register to LTE network

### GPS

- Channels: 55
- Tracking Sensitivity: -161dBm
- Acquisition Sensitivity: -146dBm
- Location Accuracy: <2.5CEP

### SENSOR

- Accelerometer : 3x

### BATTERY INFORMATION

- Type : non-rechargeable battery
- Capacity : 6000mAh @ 3.0V
- Operating Time :  
Up to 5 years @ 1 report per day  
(Depends on the LTE signal strength and how many reports per hour)

### ENVIRONMENTAL

- IP67 Rating
- Operation Temperature : -30°C to +75°C
- Storage Temperature : -40°C to +85°C

### ELECTRICAL

- Operating Current
  - ✓ Sleep/Hibernate: < 20uA
  - ✓ Tracking 150mA Typical
  - ✓ Reporting: 250mA Typical

### PHYSICAL

- Dimensions : 96.7 x 44.5 x 30.5mm
- Weight : <150 g
- Internal Cellular and GNSS Antenna

### INTERFACE IOs (for maintenance only)

- I/O Connector : 5-pins water-proof (POGO Pin)
  - ✓ UART1 TTL (3.3V) (RX/TX) (\*2)
  - ✓ Two GPIOs (\*2)
  - ✓ GND (\*1)

### APPROVALS

- FCC
- PTCRB & Carrier Approved

**FCC Regulations:**

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.

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.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

**FCC RF Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.