Battery Powered Automotive and Asset Tracker

Maximize efficiency. Minimize risks. Manage assets.

Kion

Ideal for Automotive or other assets, the battery powered Kion GPS tracker is a small device that is easy to deploy. It's waterproof IP67 enclosure also allows it to be used in harsh environments. The Kion tracker supports different mounting options to support different applications.

IT'S RELIABLE

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

IT'S SIMPLE

With Non-chargeable batteries the Kion is easy to install. Kion can report in each event include wake-up on motion, upon tamper detection by light sensor, Trip start, trip stop, heartbeat, or upon a preset schedule. Reports can be triggered periodically or in response to events.

IT'S FUNCTIONAL

The Kion 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.

LONG BATTERY LIFETIME

Kion has a big 12000nAh battery, that can provide 3-5 years with 1 report a day depending on configuration.

HIGHLIGHTS

- LTE CAT M1
- Integrated cellular and GPS antenna
- LED status indicators for GPS and network registration
- Integrated accelerometer
- IP67 sealed, weather resistant enclosure
- Communication via SMS, UDP, Ack UDP
- Configurable reporting schedules
- Over-the-air configuration and firmware upgrade
- Extended AT Command set for flexible and easy configuration
- Up to 16 Polygon Geo-fences
- Optional magnetic mounting plate
- Light sensor tamper detection

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Specifications

CELLULAR
- CAT 1 LTE: B1/B2/B3/B4/B5/B12/B13/B20/B26/B28
- Integrated high sensitivity antenna
- Auto register to packet network

GPS
- Channels: 55
- Tracking Sensitivity: -157 dBm
- Acquisition Sensitivity: -146 dBm
- Location Accuracy: <2.5 CEP (50%)

BATTERY INFORMATION
- Battery Type: Non-chargeable battery 3.0V@12000mAh
- Battery Life: Up to 5 years @ 1 report per day

ENVIRONMENTAL
- Operation Temperature: -30°C to +70°C
- Storage Temperature: -40°C to +80°C
- Operation Humidity: 20% to 90% (non-condensing)
- Storage Humidity: 10% to 95% RH (non-condensing)
- Designed to meet SAE J1455

ELECTRICAL
- External power input Voltage: 8V-32VDC
- On-battery
  - Shipping mode:<10uA
  - Hibernate: <15uA
  - Sleep:< 2mA
  - Active mode<100mA (average current)

PHYSICAL
- Dimensions: 93mm x 59mm x 34.5mm
- Weight: 220g
- Internal Cellular and GPS Antenna

INTERFACE CONNECTOR
- I/O Connector: 5-pins water-proof (POGO Pin)
  - UART1 TTL (1.8V) (RX/TX)
  - One GPIO (1.8V)
  - External Power 8-32V
  - GND

APPROVALS
- FCC
- IC
- PTCRB & Carrier Approve

FCC Statement

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.

ISED Warning statements

This device complies with Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

(l) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présentappareilestconforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitationestautorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de

l'appareildoit accepter tout brouillageradioélectriquesubi, mêmesi le brouillageest susceptible d'encompromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be

installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparationd'aumoins 20 cm doitêtremaintenue

entre l'antenne de cetappareilettoutes les personnes.

This Class B digital apparatus complies with Canadian ICES-003.

Cetappareilnumeriquede la classe B estconforme a la norme NMB-003 du Canada.