

ES621

1. General Description

ES621 is a 2G (GSM/GPRS) waterproof GPS asset tracker. Carefully designed for long battery life, it can last 5 years (one report per day) with 7800mAh battery. Embedded with magnets, it can easily attach to vehicle, trailer, container for asset tracking. It will wake up for reporting location information when it senses moving of the asset and power down itself when it is stationary. It supports TCP/UDP and HTTP for reporting location information. ES621 will automatically switch to cell-ID based location reporting whenever GPS is not available.



2. Main Functions

- **Tracking:** It sends GPS (Location, speed) information to your application server with configurable report interval (moving or stationary).
- **Geofence:** It supports circle and polygon setting.
- **Storing Message:** The device stores up to 1000 messages if out of coverage and send the stored messages once the device regains coverage.
- **Moving Wakeup:** Device will automatically wakeup when it senses moving of the asset and power down itself when it is stationary.
- **Battery Low Warning:** When battery level is low, it will send low-battery alarm message.
- **Flexible Battery Selection:** Two kinds of choices: 7800mAh or 10200mAh.
- **Drop Alarm:** Using embedded light sensor to detect the drop/detach from the tracking object.
- **Cell-ID Based Location:** Device reports cell-ID based location information where GPS is not positioned.
- **OTA (Over the Air):** The device's configuration, setting and firmware can be remotely upgraded.
- **Waterproof Case:** IP65 waterproof.

3. Specification

Physical and Electrical

Dimensions: 86mm*62mm*33mm

Weight: 286g

Rechargeable Battery capacity:

7800/10200 mAh

Power Consumption:

- Active mode: < 85mA @3.8VDC
- Sleep mode: < 5mA @3.8VDC
- Deep sleep mode: < 15µA @3.8VDC

Operation temperature: -20°C to 65°C

Storage temperature (Without battery):

-40°C to 85°C

USB charging port (equipped with USB charger)

Built-in Cellular and GPS antenna

-162 dBm Tracking Sensitivity

Location Technology (56 channel GPS)

Location Accuracy (2.5 meter CEP)

Cellular Communication

Quad-Band:

GSM/GPRS 850/900/1800/1900 MHZ

GPRS multi-slot class 12

Output Power:

- Class 4 (2W @850/900MHZ)
- Class 1 (1W @1800/1900MHZ)

Protocol: TCP /UDP/SMS

GPS Specification