

# ES627

## 1. General Description

ES627 is a 2G (GSM/GPRS) waterproof GPS asset tracker. Carefully designed for long battery life, it can last 1 year (one report per day) with 1000mAh 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. ES627 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 300 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.
- **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: 75mm\*42mm\*19mm

Weight: About 80g

Rechargeable Battery capacity:  
1000 mAh

Power Consumption:

- Active mode: < 80mA @3.8VDC
- Sleep mode: < 6μA @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

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

-162 dBm Tracking Sensitivity