ES825

1. General Description

ES825 is a 4G (Cat.M1&NB-IOT) mini waterproof GPS tracker for person and animals. It can be quickly set to real-time tracking mode when the animal is lost. ES825 has three modes to locate by GPS+WIFI+LBS.

2.Main Functions

- **Tracking:** It sends GPS (Location, speed) information to your application server with configurable report interval.
- **Geofence:** It supports circle and polygon setting.
- **Mixed-mode:** There are seven modes, you can choose any of them.
- **WiFi-positioning:** It will support WIFI feature for positioning.
- **Storing Message:** The device stores up to 50 messages if out of coverage and send the stored messages once the device regains coverage.
- **Battery Low Warning:** When battery level is low, it will send low-battery alarm message.
- **OTA (Over the Air):** The device's configuration, setting and firmware can be remotely upgraded.
- **Cell-ID Based Location:** Device reports cell-ID based location information if GPS signal is not available.
- **Waterproof Case:** IP65 waterproof.
- **Multi-Platform:** Customers can get device information through APP and web platform.

3. Specification

Physical and Electrical

Dimensions: 40*50*16mm

Weight: 36g（44g with collar）

Battery capacity: 680 mAh

Power Consumption:

- Active mode: <72mA @3.8VDC
- Power Saving mode (special algorithm):<4mA @3.8VDC
- Deep-sleep mode: <10μA @3.8VDC

Operation temperature: -20℃ to 65℃

Storage temperature (Without battery):

-40℃ to 85℃

Charging mode: magnetic charging

Built-in Cellular and GPS antenna

Cellular Communication

Cat.M1 & NB1:

LTE-FDD: B1/B2/B3/B4/B5/B8/

B12/B13/B18/B19/B20/B26/B28

LTE-TDD: B39 (for Cat.M1 only)

Output Power: 23dBm±2.7dBm

GSM

GSM850/GSM900/DCS1800/PCS1900

Output Power:

GSM850/900: 33dBm±2dBm

DCS1800/PCS1900: 30dBm±2dBm

Protocol: TCP/UDP/SMS

GPS Specification

-162 dBm Tracking Sensitivity

Accuracy（Open Sky）: <2m (CEP50)