ES820

1.General Description

ES820 is an LTE Cat.4 personal GPS tracker with a large battery(1500mAh). It supports two-way communications. Up to 10 phone numbers can be stored for emergency contact. It can also be used for the mileage report for reimbursement purpose.

2.Main Functions

- **Tracking:** Send GPS information to server with configurable report interval
- **Trip Start and Trip End:** Report trip start and trip end
- **Mileage Report:** Report mileage for reimbursement purpose
- **Vibration Mode:** Report location information only when moving is detected
- **LBS Positioning:** Report cell-ID info when GPS signal is not available
- **Low Battery Alarm:** Send alarm when battery voltage is low
- **Storing Messages:** Store messages if out of cellular coverage
- **Geofence:** Supports multi circle and polygon geofence setting
- **OTA (Over the Air):** Firmware can be remotely upgraded

3. Specification

Physical and Electrical

Dimensions: 75mm*46mm*17mm

Weight: 60g

Supply Voltage: 3.4V~4.2V (3.8V best)

Battery capacity: 1500mAh

Power Consumption:

   - Active mode:<129mA@4VDC

   - Power Saving mode:<3.4mA@4VDC

Operation temperature: -20℃ to 65℃

Storage temperature: -20℃ to 65℃

LTE Module: Quectel EC25

LED Indicators: 3 for GPS, cellular and
   charging status

Charging Method: magnetic charging

Antenna: Built-in cellular and GPS antenna

Sim Card: Micro SIM(3FF)

GPS Specification

Sensitivity Tracking: -157dBm

Position Accuracy (CEP50): <2.5m(Open Sky)

Cellular Communication

ES820 (V)
   LTE FDD: B4/B13

ES820 (J)
   LTE FDD: B1/B3/B8/B18/B19/B26
   LTE TDD: B41
   WCDMA: B1/B6/B8/B19

ES820 (A)
   LTE FDD: B2/B4/B12
   WCDMA: B2/B4/B5

ES820 (AU)
   LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28
   LTE TDD: B40
   WCDMA: B1/B2/B5/B8
   GSM: B2/B3/B5/B8

ES820 (E)
   LTE FDD: B1/B3/B5/B7/B8/B20
   LTE TDD: B38/B40/B41
   WCDMA: B1/B5/B8
   GSM: B3/B8

Protocol

HTTP/TCP/UDP/SMS