

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° C to 65° C Storage temperature: -20° C to 65° C

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