

ES620

1. General Description

ES620 is a 2G (GSM/GPRS) waterproof GPS tracker with an internal battery (1000mAh). It supports AGPS. The device standby time is 100 days if one report per day. It supports TCP/UDP and HTTP for reporting location information. ES620 has voice communication capability. It can call or send message to a pre-configured phone number. ES620 will automatically switch to cell-ID based location reporting whenever GPS is not available. It can work in humid environment because of its waterproof design.



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.
- **SOS Button:** Makes an SOS call or SMS message to a pre-configured phone.
- **Over Speed Limit:** Reports over-speed limit.
- **Mileage:** Reports trip start, trip end and the mileage.
- **3-Axis Accelerometer:** With a built-in 3-axis accelerometer, the device can detect trip start/trip end, and to report harsh braking, harsh acceleration, and impact.
- **Storing Message:** The device stores up to 1000 messages if out of coverage and sends the stored message once the device regains coverage.
- **Battery Low Warning:** When battery level is low, it will send low-battery alarm message.
- **A-GPS:** Assisted GPS saves power consumption and makes GPS acquisition quicker.
- **Cell-ID Based Location:** Device reports cell-ID based location information if GPS signal is not available.
- **Waterproof Case:** IP65 waterproof.
- **OTA (Over the Air):** The device's configuration, setting and firmware can be remotely upgraded.

3. Specification

Physical and Electrical

Dimensions: 74mm *42mm *20mm

Weight: 70 g

Supply Voltage: 3.3V~4.5V (3.8V best)

Power consumption:

- Active mode: <49mA @ 3.8VDC
- Sleep mode: <5mA @3.8VDC
- Deep Sleep Mode: < 0.57mA @3.8VDC

Operation temperature: -20°C to 65°C

Storage temperature (Without battery):

-40°C to 85°C

3 LEDs for charging, GPS and Cellular status

USB2.0

GPS specification

-162 dBm Tracking Sensitivity

Location Technology (56 channel GPS)

Location Accuracy: <2.5m (CEP)

Cold Start: -140dBm

Hot start: -140dBm

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