ES840

1.General Description

ES840 is a 4G (Cat.M1&NB) OBDII GPS Tracker for vehicle. ES840 supports CAN Bus and all kinds of Line. It can automatically detect Ignition On/Off status via reading RPM information. ES840 has three modes to locate by GPS+Bluetooth+LBS.

2.Main Functions

- **Tracking:** It sends GPS (Location, speed) information to your application server with configurable report interval.
- **Bluetooth-positioning:** It will support bluetooth feature for positioning.
- **Geofence:** It supports circle and polygon setting.
- **Backup Battery:** With a backup battery (110mAh), the device sends a tamper message if the power supply harness is disconnected.
- **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 100 messages if out of coverage and send the stored messages once the device regains coverage.
- **Power Saving Mode:** Device automatically switch to low-power mode when it detects engine is OFF.
- **CAN Communication:** It can read VIN, RPM and many other standard vehicle parameters via CAN BUS.
- **OTA (Over the Air):** The device's configuration, setting and firmware can be remotely upgraded.

3. Specification

Physical and Electrical

Dimensions: 50.6mm *49mm *26mm
Weight: *g
Input voltage range: 12-24VDC
Power Consumption:
-Active mode:< 45 mA @12 VDC
-Sleep mode:< 10 mA @12 VDC
Operation temperature: -20℃ to +65℃
Storage temperature (Without battery): -40℃ to +85℃

GPS specification

-162dBm Tracking Sensitivity
Accuracy (Open Sky): < 2.5m (CEP50)

Comprehensive IOs

OBDII interface
J Line: J1850 PWM VPW
K Line: ISO9141, ISO14230（KWP2000）
CAN-BUS:ISO15765（11/29Bit 250/500K）
3 LEDs for GPS,Cellular status and charger
3 antennas for Built-in Cellular, Bluetooth and GPS

Cellular Communication

Cat.M1/Cat.NB1:
LTE FDD:
B1/B2/B3/B4/B5/B8/B12/B13/B18/ B19/B20/B25/B26/B28
LTE TDD:
B39 (only Cat.M1 support)
Output Power: 23dBm±2.7dBm
GSM:
GSM850/GSM900/DCS1800/PCS1900
Output Power:
GSM850/900: 33dBm±2dBm
DCS1800/PCS1900: 30dBm±2dBm
Protocol: HTTP/TCP/UDP/SMS