# GreenRoad Mobile

## Specifications

The GreenRoad Mobile i solution is designed to help companies expertly manage fleet safety, operations and compliance in a flexible, easy-to-use mobile interface.

### Key Features

- **Safety Data in Hand**

  GreenRoad Mobile turns in-vehicle mobile devices into real-time safety event recorders and effective driving coaches. Instant analysis and clear, understandable visual and/or audible coaching help drivers correct unsafe or inefficient behavior immediately.

- **Easy Access to Vehicle Data***

  Connect GreenRoad Mobile directly to the vehicle engine computer via the ODII port to get insight into fuel consumption and efficiency, vehicle health data, and engine on/off for electronic logging data.

- **Mission Critical Location Data**

  GreenRoad Enterprise solution provides high availability location data for operation management, dispatch, and event investigation.

- **Hours of Service***

  GreenRoad Mobile automatically records Hours of Service (HOS) data for full compliance with FMCSA ELD.

  * Coming soon, January 2016



**1** Mobile Device is associated to the Vehicle

**2** Location data and Safety events are captured

**3** Vehicle Health and Fuel data are captured and sent to the Mobile device

**4** Data gathered is sent to the cloud

**5** Safety and Operations data are presented in GreenRoad Central

**6** Mission Critical data is sent to the cloud from the Enterprise device too.

# GreenRoad Mobile Solution

## GreenRoad Standard - Mobile Edition App

Key Features:
- Driver Behavior – Safety events detection and in-vehicle feedback for self-correction
- Operations Management – Real-time and historic location data
- GreenRoad Intelligence – Actionable insights and effective management available on GreenRoad Central web portal and mobile app.
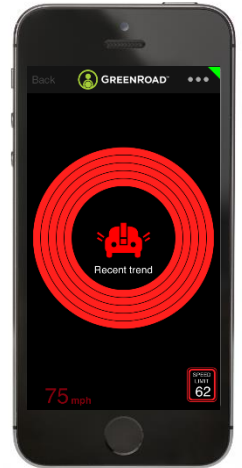
### Technical Specifications

| | |
|---|---|
| **Operation system** | iPhone 4S or higher, iOS version 7 or higher, Android 4.3 or higher |
| **GPS** | Available |
| **GSM Netwrok** | Sim and Activer data plan |
| **Events Detection** | Accelrometer<br>Optional - Gyro |
| **Driver Association Enabelent** | Bluetooth 4.0 or higher |

## GreenRoad ME Standard for Driver Association

Key Features:
- Automatic association between Driver and designated Vehicle

### Technical Specifications

| | |
|---|---|
| **Dimensions and weight** | Height - 17 mm (0.59 in)<br>Width - 55 mm (2.16 in)<br>Depth - 56 mm (2.16 in)<br>Weight - 23 grams (0.81 oz) |
| **Processors** | Main - 32-bit ARM® Cortex™ M0 CPU core<br>Bluetooth - Nordic nRF51822<br>Data rates - 250kBs, 1Mbs, and 2Mbs<br>Memory - 256KB flash 16KB RAM |
| **Communications** | Bluetooth Low Energy wireless technology 2.4GHz RF |
| **Transmission Power** | Bluetooth -93 dBm |
| **Battery and Power** | Type:  Cell, replaceable, 1 x 1,000mAh CR2477 |
| **Battery life** | Kontakt.io profile (350ms interval) - Up to 2 years with default settings and 24-hours daily usage .<br><br>iBeacon profile (100ms interval) - Up to 6 months with full and 24-hours daily usage. |
| **Casing** | Material - LUPOY GN5001RFG<br>Flame resistance - Safe - V0 flammability class<br>Protection - IP-57 (dust protected and waterproofed for up to 1 m immersion) |
| **Environmental Requirements** | Temperature - -20°C / + 60°c (-4°F / +140°F)<br>Humidity - from 0% up to 100% |

# GreenRoad ME Professional

Key Features:

- Automatic association between Driver and Vehicle
- Operations Management – Fuel and Idling Management, Vehicle Health data
- Fleet Management - Driver and Vehicle Management, administration and maintenance
- Compliance - HOS Detail, precise and automatic e-logs recordings.

## Technical Specifications

| Dimensions | Height – 25mm<br>Width – 48mm<br>Depth – 31mm<br>Weight - about 20g |
|---|---|
| Color | white |
| Operating Voltage | 12V±4V |
| Power consumption | 15mA |
| Operating Temperature | -30℃ ~ +80℃ |
| Storage Temperature | -40℃ ~ +85℃ |
| Operating Humidity | 10 to 85% (non-condensing) |
| OBD | J1850 PWM, J1850 VPW, ISO 9141-2<br>ISO14230(KWP200), ISO15765-4(CAN) |
| Bluetooth | Bluetooth 4.0 BLE, Range:5~45m, Baudrate:38400 |

# GreenRoad ME Enterprise

Key Features:

- Automatic association between Driver and Vehicle
- Operations Management: High availability real-time location data recordings being sent to the cloud to support  mission critical operations, Fuel and Idling Management, Vehicle Health data.
- Fleet Management - Driver and Vehicle Management, administration and maintenance.
- Compliance - HOS Detail, precise and automatic e-logs recordings.

## Technical Specifications

| General | Dimensions | Height – 23mm<br>Width – 50mm<br>Depth – 50mm<br>Weight - about 50g<br>not include J1962 connector |
|---|---|---|
| | Backup Battery | Li-Polymer 3.7V 180 mAh |
| | Power consumption | 70mA(Active),10mA(Sleep),Max.<250mA |
| | Operating Voltage |  8V to 32V DC |
| | Operating Temperature | -30℃ ~ +80℃ (without battery)<br>-40℃ ~ +85℃ for storage (without battery) |
| | Memory | 8M(about 15000 records max.) |
| | Sensor | 3-axes ±2g/±4g/±8g/±16g accelerometer<br>Vehicle battery voltage<br>Back battery voltage<br>Temperature sensor |
| GPS | Module | u-blox MAX-7 |

| | Receiver type | 56 Channels<br>GPS L1C/A<br>SBAS L1C/A<br>QZSS L1C/A |
|---|---|---|
| | **TTFF** | Cold Start: 30s<br>Warm Start: 28s<br>Hot Start: 1s<br>Hot Start: -155dBm |
| | **Horizontal position accuracy** | Autonomous: 2.5 m<br>SBAS: 2.0 m |
| **Communication GSM/WCDMA/LTE** | **Module** | Telit xE910 Family |
| | **Frequency** | GSM: 850/900/1800/1900MHz<br>WCMDA: 800/850/900/1700/1900/2100Mhz |
| | **Data transmission** | HSPA: DL 21.0Mbps,UL 5.76Mbps<br>WCDMA: DL 384kbps,UL 384kbps<br>EDGE: DL 296kbps,UL 236.8kbps<br>GPRS: DL 107kbps,UL 85.6kbps |
| | **Max Out RF Power** | GSM850/GSM900: 33dBm<br>DCS1800/PCS1900: 30dBm<br>EDGE 1800/1900: 26dBm<br>WCDMA 850/900/1700/1900/2100: 24dBm |
| | **Receiver Sensitivity** | GSM850: -109.5dBm<br>GSM900: -109dBm<br>DCS1800: -110dBm<br>PCS1900: -109.5dBm<br>WCDMA FDD B1: -111dBm<br>WCDMA FDD B2: -110dBm<br>WCDMA FDD B4: -111dBm<br>WCDMA FDD B5: -111dBm<br>WCDMA FDD B8: -110dBm |