



OBDLTEA1/OBDLTEV1

**OBD II Based Vehicle Telemetry and Location
User's Manual**

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment

Federal Communication Commission Statement (FCC, U.S.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radiation Exposure Statement

This device complies with RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This device must operate with a minimum distance of 20 cm between the radiator and user body.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment

IC WARNING

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne doit pas causer d'interférences.
2. Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.

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Chip	SARA-R510M8S	nRF52
Modulation	LTEM: OFDM	BT: GFSK
TX Frequency	600-900MHz, 1700-2100MHz	2402-2480 GHz
Version	CAT M1	BLE 5
Antenna Gain	2.5dBi	2.5dBi
Temperature (operating)	-40C to 85C	-30C to 80C

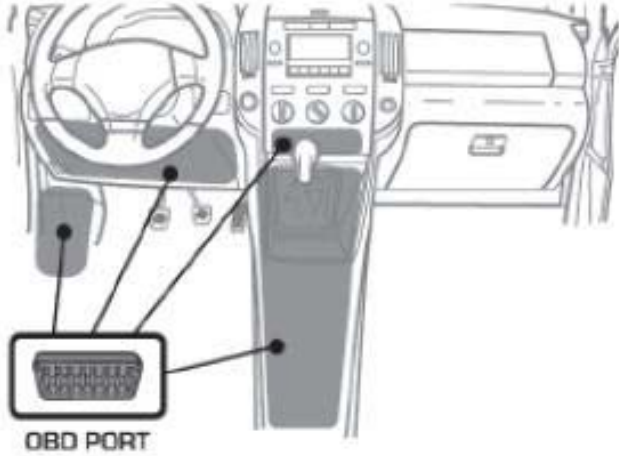
Frequency Table

Device Specifications



Frequency Bands	LTE Cat M1 bands 1,2,3,4,5,8,12,13,18,19,20,25,26,28
Antenna gain	
RF sensitivity	-109 dBm
Battery type	Lithium Iron Phosphate Rechargeable - 300mAh
Physical security	Proprietary Universal Locking Mechanism
GPS Connectivity	Tri-mode GPS/Galileo GLONASS, Geofencing and IMESS/QZSS optimization. 72 Channel
Network protocol	CatM1, Bluetooth Low Energy 5
Accelerometer	3 axis 2g/4g/8g/16g ultra low power MEMS
Temperature range	-40 to 85 C
Environmental rating	IP54
Dimensions	59mm x 54mm x 28mm

Installation Instructions



By using user manual of the vehicle find the OBD connector on your car

Typically OBD plug can be located:

- Near the breaks unit
- Near the fuse box
- Under the dashboard
- In the middle console

1

Plug the connector into the vehicle's OBD.

2a

Check that the device is fully connected and does not unlock.

2b

Lock the Secondary Lock to secure the device.

2c