TLAHW3IU-W(H05)

(Online Connectivity Unit)

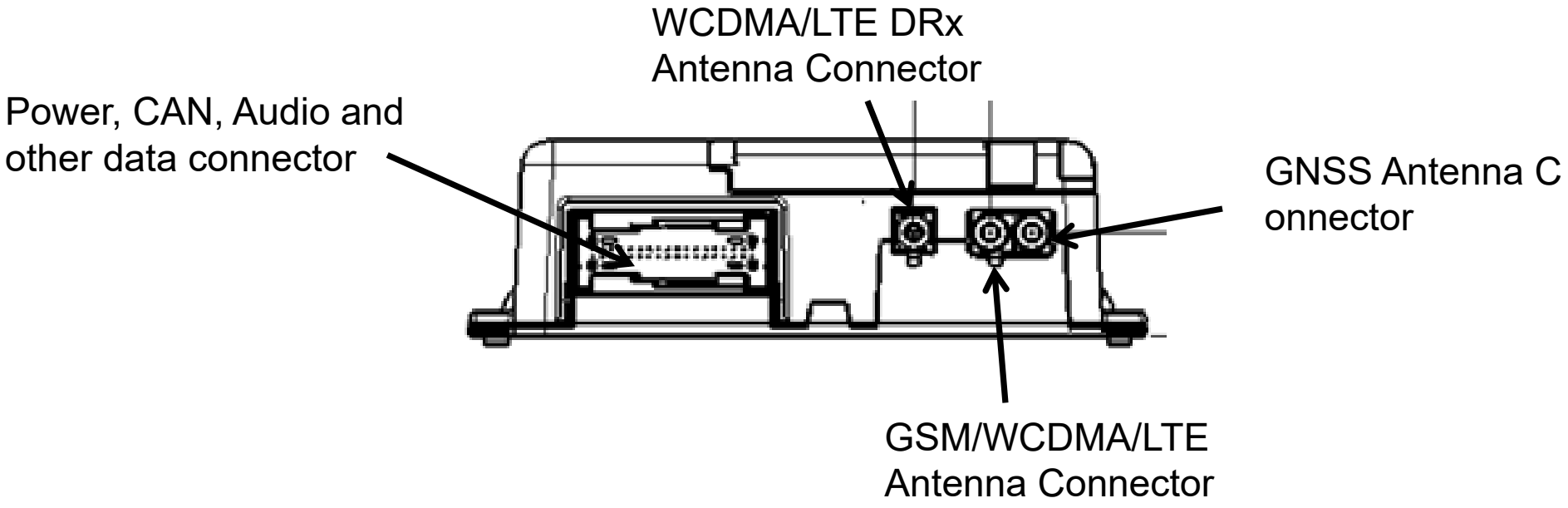
19, December, 2019

LG Electronics Inc.

Life's Good

What is the OCU(Online Connectivity Unit)

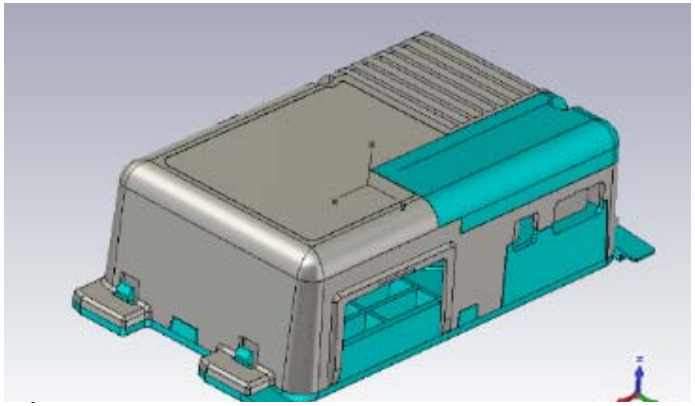
- The OCU stands for Online Connectivity Unit
- It's a telematics device that LGE is developing for the Volkswagen vehicles.
- It is a small box installed deep inside passenger cars, and in charge of wireless communications in GSM, WCDMA, and LTE network
- It provides voice and data call functions and various online services requested by VW

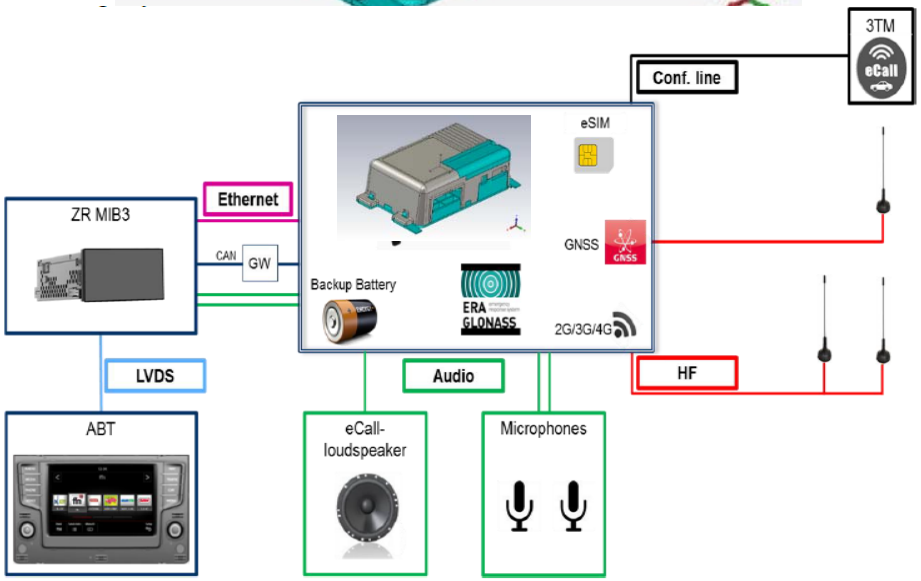


Product Image/ Function

Product Image

Telematics product supporting Emergency Call/LTE service





Function

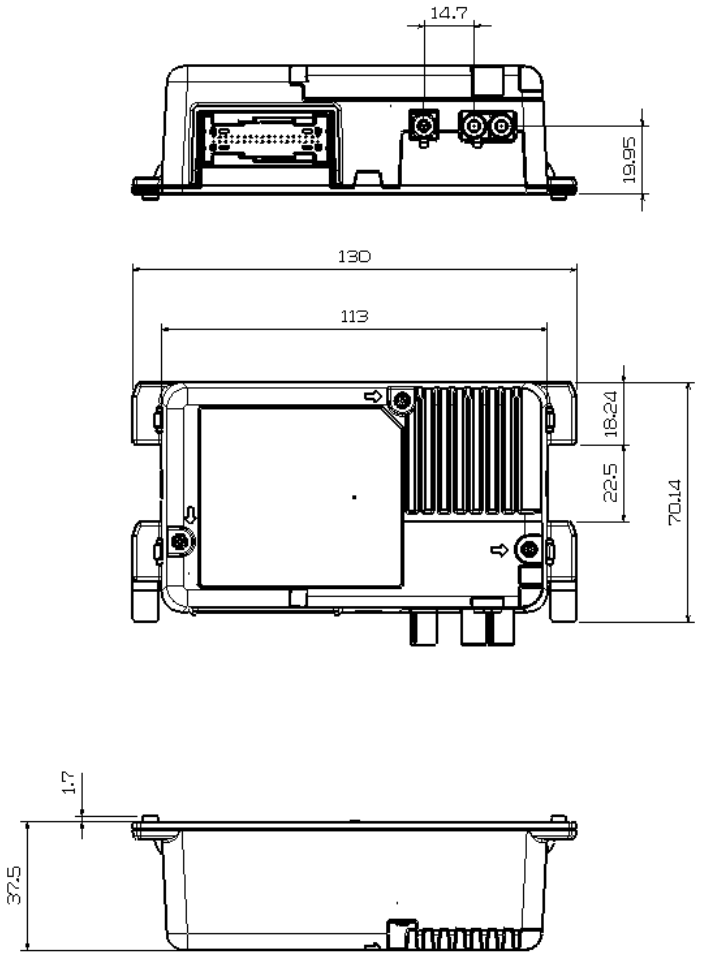
- **Emergency Call**
- **Mobile Online Services**
- **Positioning/Dead Reckoning**
  -GPS/GNSS/Beidu/Galileo

Specification

Specification

Supporting Bands	UMTS B5 LTE FDD B5/B7
Modem Chip	Qualcomm MDM9240
GNSS	GPS/Glonass/Beidou
Bluetooth	No
WiFi	No
Size	130mm x 70.14mm x 37.5mm
Weight	300g
Power	DC 12V , 2A

Dimension

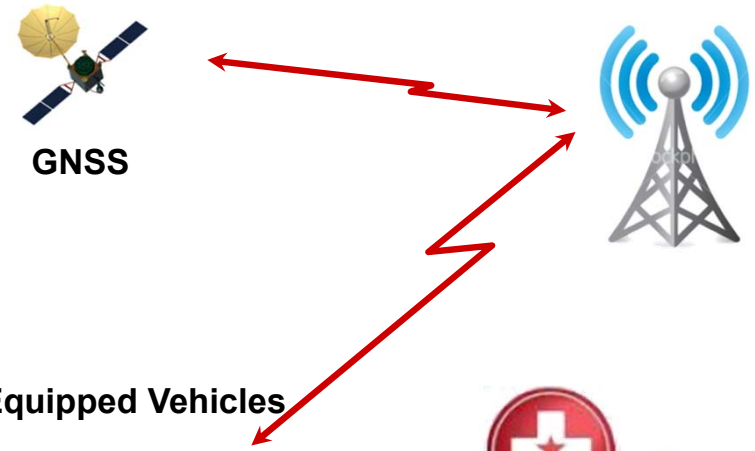


The OCU3 Features

Concept

Safety & Security Services Oriented

Telematics Terminal



Confidential

Major Services

- **Call Services**
  - Emergency Call
  - Automatic Collision Notification Call
  - Information Call
  - Road Side Assistance Call
- **Remote Function Services**
  - Honking And Flashing
  - Speed Alert
  - Vehicle Disabling
  - Battery Charge Management
  - Departure Time Programming
  - Door Lock / Unlock
  - Pre-Trip Climatisation
  - Trip Statistics
  - Vehicle Status
- **Geo-Fencing**
- **POI Address Import**
- **Vehicle Health Report**
- **Vehicle Tracking**

OCU3 High Hardware block diagram

Confidential

FCC
Changes or modifications not expressly approved by the party responsible for compliance
could void the user's authority to operate the equipment.
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.
NOTE: 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 particular 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 or more 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 FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiating element of this device and the user.
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Antenna information
The maximum antenna gain including cable loss must not exceed the following table;

Band	Frequency range	Maximum antenna gain(including cable)[dBi]
Band 5	824~849MHz	-0.72
Band 7	2500~2570MHz	0.13