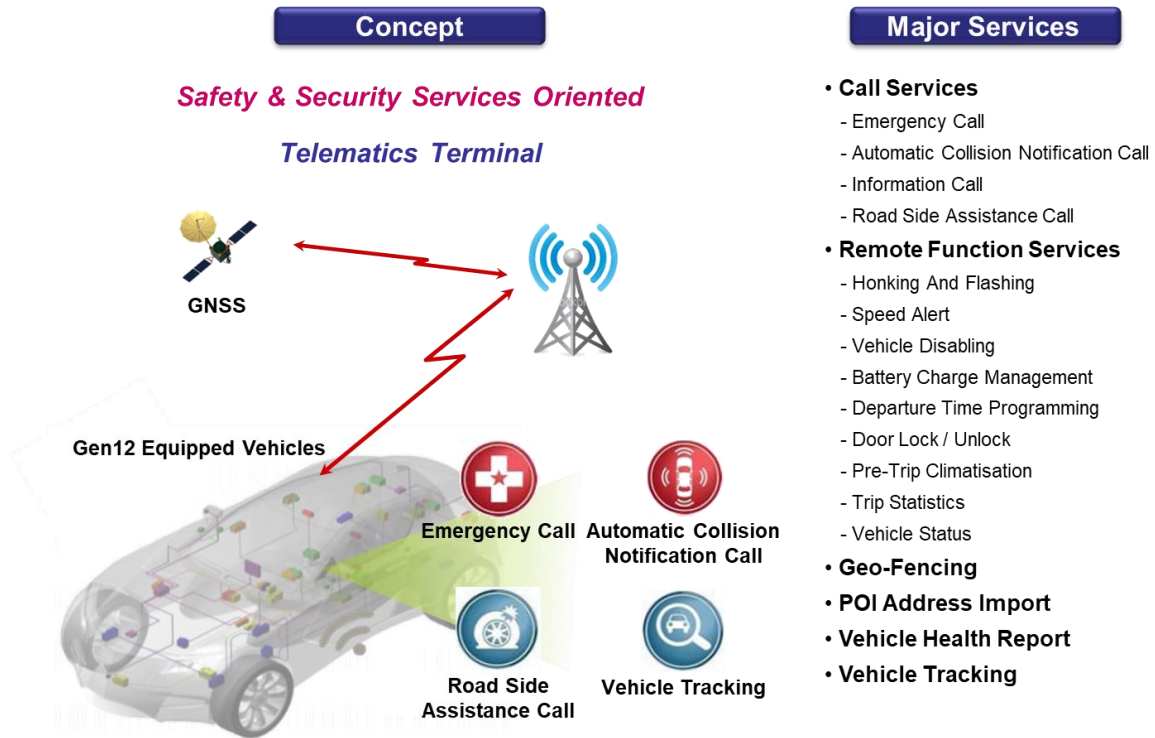


User Manual

(GEN12)

Product Introduction



GM Gen12 (TFGMEIBBCDx) is a telematics device that LGE is developing for the vehicles. It's a small box installed deep inside passenger cars, and the TFGMEIBBCDx are designed for the automotive industry. TFGMEIBBCDx support 5G NR, LTE, WCDMA, and GSM air Interface standards. The TFGMEIBBCDx are based on the Qualcomm wireless chipsets and support the following bands.

It provides voice and data call functions and various online services requested by OEM

Here is a general information on telematics device

Table 1. Specification

Supporting Bands	GSM850/GSM1900 WCDMA B2/B4/B5 LTE FDD B2/B4/B5/B7 NR n2/n5/n7/n77/n78
GNSS	GPS(L1), Galileo(E1), GLONASS(G1), Beidou(B1I), SBAS(L1)
Ethernet	1Gbit
Power	DC 13.5V , 1A

Operating Temperature	-40°C to 85°C
-----------------------	---------------

Absolute Maximum Rating

This section defines the Absolute Maximum Ratings of the TFGMEIBBCDx.

Warning: If these parameters are exceeded, even momentarily, damage may occur to the device.

Table 3. Absolute Maximum Ratings (input voltage of TFGMEIBBCDx)

Parameter		Min	Max	Units
VPWR	Main power supply input	6	18	V

Notice

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 **17cm** between the radiating element of this device and the user.