



Learn more here!

GB130MG

LTE Cat M1/NB2 waterproof battery-mounted insurance telematics device allowing customer self-fit and lower cost installation



- **LTE Cat M1/NB2 with 2G Fallback**
- **Self-Fit Installation**
- **IP67 Waterproof**

- **Virtual Ignition Detection**
- **1Hz GNSS sampling**
- **400Hz 6-Axis Accelerometer**
- **Accelerometer Self-calibration**
- **Driving Behavior Monitoring**
- **Crash Detection & Data Packet**
- **Scheduled Report**
- **Geo-fences**
- **Jamming Detection**
- **Tow Alarm**
- **OTA Control**
- **Up to 10,000 Buffer Messages**
- **BLE 5.2**

The GB130MG is the LTE version of our proven usage-based insurance telematics product GB100P. Its built-in 6-axis accelerometer + gyroscope allows accurate accident data sampled at up to 400 times per second. With built-in BLE it supports wireless accessories; thus allowing the product to be flexible and suitable for applications beyond insurance data acquisition.

The GB130MG is a vehicle battery mounted product specifically designed to lower the installation costs of telematics products in the usage-based insurance market. Its internal battery and waterproof enclosure maintain stable and reliable performance when installed in the engine compartment of vehicles. The GB100 series is proven to provide accurate and reliable data under the metal hood of a vehicle engine and has been used successfully in the delivery of several large UBI projects for insurers and service providers alike.

UBI



Automobile Finance



Stolen Vehicle Recovery



General

Dimensions	134.6 × 67.5 × 14.8mm 5.30" (L) × 2.66" (W) × 0.58" (H)
Weight	130g (4.59oz)
Backup Battery	High temperature NiMH, 200 mAh
Waterproof	IP67 Compliant
Operating Voltage	8V to 32V DC
Operating Temperature	-30°C ~ +70°C -40°C ~ +70°C for storage
BLE	Support BLE 5.2 protocol
Region	Worldwide
Certification	FCC / CE / PTCRB / Verizon / AT&T / T-Mobile / US Cellular / IC / E-Mark / RCM/RNZ / Bell

LTE

Operating Band	LTE Cat M1/NB2 Cat M1: LTE-FDD:B1/B2/B3/B4/B5/B8/B12/B13/ B18/ B19/B20/B25/B27/B28/B66/B85 Cat NB2: LTE-FDD: B1/B2/B3/B4/B5/B8/B12/ B13/B18/ B19/B20/B25/B28/B66/B85
Data Transmission	eMTC (DL) 588kbps eMTC (UL) 1119kbps NB2 (DL) 127kbps NB2 (UL) 158.5kbps NB1 (DL) 34kbps NB1 (UL) 66.6kbps

GSM

Frequency	850/900/1800/1900 MHz
Data Transmission	GPRS 107 Kbps (DL) / 85.6 Kbps (UL) EDGE 296 Kbps (DL) / 236.8 Kbps (UL)

GNSS

GNSS Type	u-blox All-in-One GNSS receiver
Constellation Support	GPS, Glonass, Galileo, Beidou
Sensitivity	Cold start: -148 dBm Hot start: -160 dBm Tracking: -167 dBm
Position Accuracy (CEP)	Autonomous: <2m
TTFF (Open Sky)	Cold start: 24s average Hot start: 1s average

Interfaces

Cellular Antenna	Internal only
GNSS Antenna	Internal only
Bluetooth Antenna	Internal only
LED Indicator	CEL, GNSS, PWR

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status based on preset time intervals, distance, mileage or a combination of these settings
Geo-Fences	Geo-fence alarm and parking alarm, support up to 20 circular and 20 polygon geo-fence regions
Crash Detection	Accident data collection for reconstruction and analysis
Crash Data Packet	Crash data collection from accelerometer up to 15 seconds before and after an incident
Driving Behavior Monitoring	Aggressive driving behavior detection, including harsh braking, acceleration, etc.
Tow Alarm	Alarm for tow event in ignition-off state
Virtual Ignition Detection	Based on voltage and accelerometer