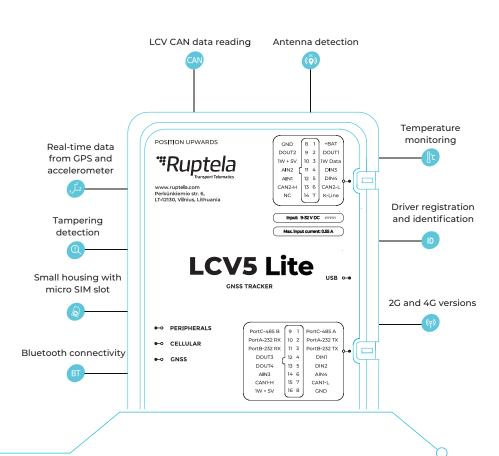


**LCV5** Lite is an advanced GPS tracker for cars and light commercial vehicles. It is designed for vehicle tracking and can perform advanced tasks – read on-board computer data (CAN), read manufacturer specific OBD data, monitor driver behavior, manage fuel, etc.

The device is available with LTE CATI bis (4G) and GSM (2G) networks.

# **Applications**

- Advanced OBD and CAN reading
- Applicable to business and private trips
- Driver behavior monitoring
- Safety and security
- Car sharing
- LCV fuel monitoring
- Real-time monitoring of fleets
- Fleet efficiency optimization
- Customizable with accessories
- Accident reconstruction data recording





## **Detailed specifications**

#### **Environmental specifications**

**Temperature** Operating: -20 to +60 °C Storage: -20 to +45 °C

Battery charging: 0 to +45 °C Battery discharging: -20 to +60 °C

**Relative humidity** 5% to 95% Non-condensing

**Electrical specifications** 

**Power supply range** 9 – 32 V DC

Internal battery LiPo 3.7 V 1050 mAh

**Protections** Battery and a 1-Wire power line short circuit protection

Reverse polarity protection

Electrostatic discharge protection on USB, SIM card slot and 1-Wire data line

Overcurrent protection on 1-Wire power line Overvoltage protection on analog inputs

Charging protection

**Connectivity** 

LTE CAT1 bis/GSM Antenna: Internal

Bands (LTE FDD): B1/B3/B7/B8/B20/B28

Bands (GSM): 900/1800 MHz

GNSS module Antenna: Internal

Positioning systems: GPS, GLONASS, Galileo

Augmentation systems: QZSS, SBAS (WAAS, GAGAN, EGNOS, MSAS)

Aided start services: AssistNow Online (A-GPS)\*
Tracking sensitivity: -154 to -164 dBm
Reacquisition sensitivity: -152 to -160 dBm
Cold start duration: < 30 s

Aided start: As low as 3 s

Navigation update rate: 10 Hz

Horizontal position accuracy: 2.5 m (CEP, 50%, 24 hours static, -130 dBm, > 6 SVs)

\*In development

**Bluetooth module** Bluetooth version: 5.0 Low energy



# **Detailed specifications**



#### **Interfaces**

3 x Digital inputs 0 - 30 V DC Voltage range: Voltage threshold: 4 V DC

Voltage threshold when inverted: 250 mV DC

2 x Analog inputs Voltage range: 0 - 30 V DC

Resolution: 12 bit

2 x Digital outputs Maximum voltage: 32 V DC

Maximum current: 1 A @ 25 °C

2 x CAN interfaces High-speed CAN interfaces: 2

LCV CAN, OBD, LCV+OBD (including proprietary manufacturer data) data reading

Switchable serial port RS232 (DFS, RFID) OR

RS485 (DFS, J1708\* data reading)

\*In development

1-Wire interface Power output: 300 mA @ 4.5 V DC

iButton DS1990A, DS1971, DS1982 up to 4 DS18B20 temperature sensors

**User interfaces** Micro USB interface

Indication LED

**Features** 

Internal storage 16 MB

**Accelerometer** Built-in 3-axis (auto-calibrating, impact detection, motion sensing, tilt detection, g-force up to 16 g)

**Certifications and ratings** 

Certifications E-mark, CE, EAC, CITC, WEEE

Physical properties

**Dimensions** 101 x 74 x 23 mm

Weight  $120 \pm 1 g$ 

Housing Plastic

## **Ordering information**



LCV5 Lite with LTE CAT1 bis and Bluetooth **LCV5-Lite-LTE-EMEA**