

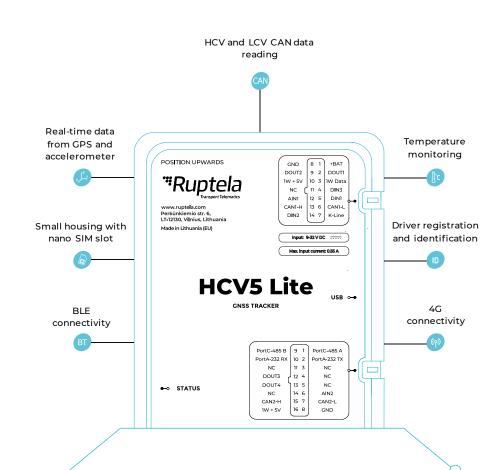
HCV5 Lite

HCV5 Lite is an advanced GPS tracker for trucks, buses, agriculture, and other specialized machinery. It is designed for vehicle tracking and can perform advanced tasks – read on-board computer data (CAN), monitor driver behavior, remotely download tachograph data, manage fuel, etc.

The device is available with the LTE CATI bis (4G) network.

Applications

- Real-time monitoring of fleets and cargo
- Remote tachograph solution
- Fleet efficiency optimization
- Driver, vehicle and cargo safety and security
- Fuel monitoring
- Cargo conditions monitoring
- Trailer tracking
- Customizable with accessories





Detailed specifications

Environmental specifications

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

0 to +55 °C Battery charging: 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

2 amp fuse on the power line

Average power consumption @ 12 V DC

Operating Normal operation (data sending interval ~15 s): ~100 mA (battery charging) Normal operation (CAN2 enabled): ~120 mA

Normal operation (CAN2 & BLE enabled): ~145 mA

All interfaces disabled: ~30 mA **Custom sleep** Modem sleep, all other interfaces disabled: ~32 mA (average)

GNSS enabled, all other interfaces disabled: ~43 mA BLE enabled, all other interfaces disabled: ~59 mA

Advanced sleep

~4 mA (battery fully charged)

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: -167 to -168 dBm Reacquisition sensitivity:-160 dBm Cold start duration: < 30 s

Aided start: As low as 1 s Navigation update rate: 10 Hz

Horizontal position accuracy: 1.5 m (CEP, 50%, 24 hours static, -130 dBm, > 6 SVs for each GNSS

system)

BLE module BLE version: 5.0 Low energy



Detailed specifications

Interfaces

3 x Digital inputs	Voltage range:	0 - 30 V DC
	Voltage threshold:	4 V DC
	Voltage threshold when inverted: 250 mV DC	

2 x Analog inputsVoltage range: 0 - 30 V DC
Resolution: 12 bit

4 x Digital outputs* Maximum voltage: 32 V DC Maximum current: 1 A @ 25 °C

2 x CAN interfaces High-speed CAN interfaces: 2

FMS, J1939, HCV CAN, LCV CAN, OBD (including proprietary manufacturer data) and tachograph

data reading

Switchable serial port K-line (VDO and Stoneridge Tachograph data reading) OR

RS232 (DFS, RFID, Transparent channel) OR

RS485 (DFS, J1708 data reading, Transparent channel)

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, CITC, WEEE

Physical properties

 Dimensions
 101 x 74 x 23 mm

 Weight
 120 ± 1 g

 Housing
 Plastic

Ordering information

HCV5-Lite-LTE-EMEA HCV5 Lite with LTE CAT1 bis and BLE

Contact information:

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^{*} – only available from hardware version FMP5-34-32130 and above. Older versions will include only 2 x digital outputs.