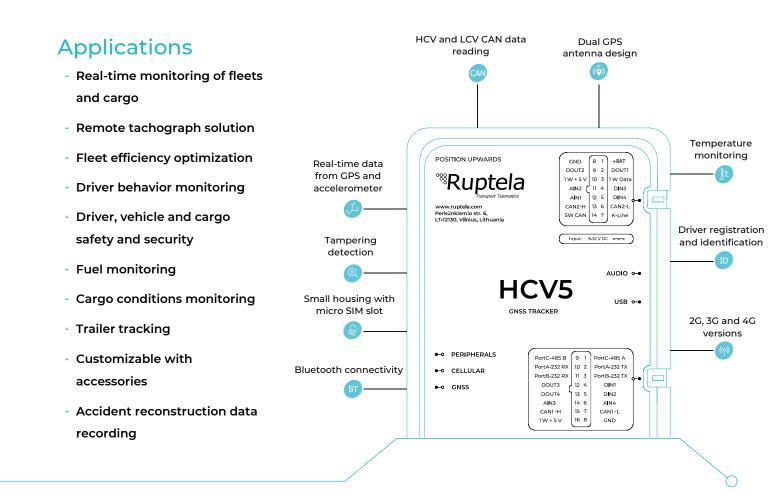




# HCV5

**HCV5** is an advanced GPS tracker for trucks, busses, 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 in variations that use GSM (2G), UMTS (3G) and LTE Cat M1/NB-IoT (4G) networks and Bluetooth for communication. The NB-IoT network is included in the LTE Cat M1 variation.







## **Environmental specifications**

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

Internal Battery	
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 a 1-Wire power line and digital outputs Overvoltage protection on analog inputs Charging protection

## Average power consumption @ 12 V DC

Operating (battery charging)	Normal operation (data sending interval ~15 s): Normal operation (constant link enabled): Peak value:	~160 mA ~155 mA ~260 mA
Sleep mode	All modules disabled: Modem in sleep mode, other modules disabled: Modem enabled, other modules disabled: GNSS module enabled, other modules disabled:	~6 mA ~8 mA ~16 mA ~22mA

## Connectivity

2G option	Modem: Quectel M95 Antenna: Internal Frequency bands @ 2G (GSM): 850/900/1800/1900 MHz	
3G option	Modem: Quectel UG96 Antenna: Internal Frequency bands @ 2G (GSM): 850/900/1800/1900 MHz Frequency band @ 3G (UMTS): 800/850/900/1900/2100 MHz	
LTE Cat M1/NB-IoT option	Modem: Quectel BG95 Antenna: Internal Frequency bands @ 2G (GSM): 850/900/1800/1900 MHz Bands @ 4G (LTE Cat M1/NB-IoT): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25*/B26/B28/B39* * – available upon request	
GNSS module	Module: U-blox EVA-M8MAntenna: Internal and external (available as an additional accessory)Positioning systems: GPS, GLONASS, GalileoAugmentation systems: QZSS, SBAS (WAAS, GAGAN, EGNOS, MSAS)Aided start services: AssistNow Online (A-GPS)Tracking sensitivity:-154 to -164 dBmReacquisition sensitivity:-152 to -160 dBmCold start duration:< 30 sAided start:As low as 3 s	
Bluetooth module	Module: NRF52832 Bluetooth version: 5.1 Low energy	





#### Interfaces

4 x Digital inputs	Voltage range: Voltage threshold: Voltage threshold when inverted:	0 - 30 V DC 4 V DC 250 mV DC	
4 x Analog inputs	Voltage range:0 - 30 V DCResolution:12 bit		
4 x Digital outputs	Maximum voltage: 32 V DC Maximum current: 1 A @ 25 °C		
3 x CAN interfaces	data reading	OBD (including proprietary manufacturer data) and tachograph neously (2 x High speed or 1 x High speed + Single-Wire)	
K-Line interface	OBD parameter and DTC reading Tachograph data reading		
3 x Serial ports	RS232 ports: 2 (DFS, refrigerator RS485 ports: 1 (DFS, transparent		
1-Wire interface	Power output: 300 mA @ 4.7 V DC iButton DS1990A, DS1971, DS1982 up to 4 DS18B20 temperature sensors		
User interfaces	Micro USB interface 3 x Indication LEDs 3.5 mm audio interface (not available for the LTE Cat M1/NB-IoT option)		
Features			
Internal storage	8 MB (max. 39000 records)		
External storage	Up to 32 GB (max. 250M records)		
Accelerometer	Built-in 3-axis (auto-calibrating, impact detection, motion sensing, tilt detection, g-force up to 4 g)		
Certifications and ratings			
Certifications	E-mark, CE, FCC, IC, RoHS, WEE	E, EAC, PTCRB	
Physical properties			
Dimensions	101 x 74 x 23 mm		
Weight	128 ± 1 g		
Housing	Plastic		

# Ordering information

HCV5-LTM-GL-BT	HCV5 with global LTE Cat M1 and Bluetooth
HCV5-3G-GL	HCV5 with global 3G without Bluetooth
HCV5-3G-GL-BT	HCV5 with global 3G and Bluetooth
HCV5-2G-GL	HCV5 with global 2G without Bluetooth
HCV5-2G-GL-BT	HCV5 with global 2G and Bluetooth

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#### **Contact information:**

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