



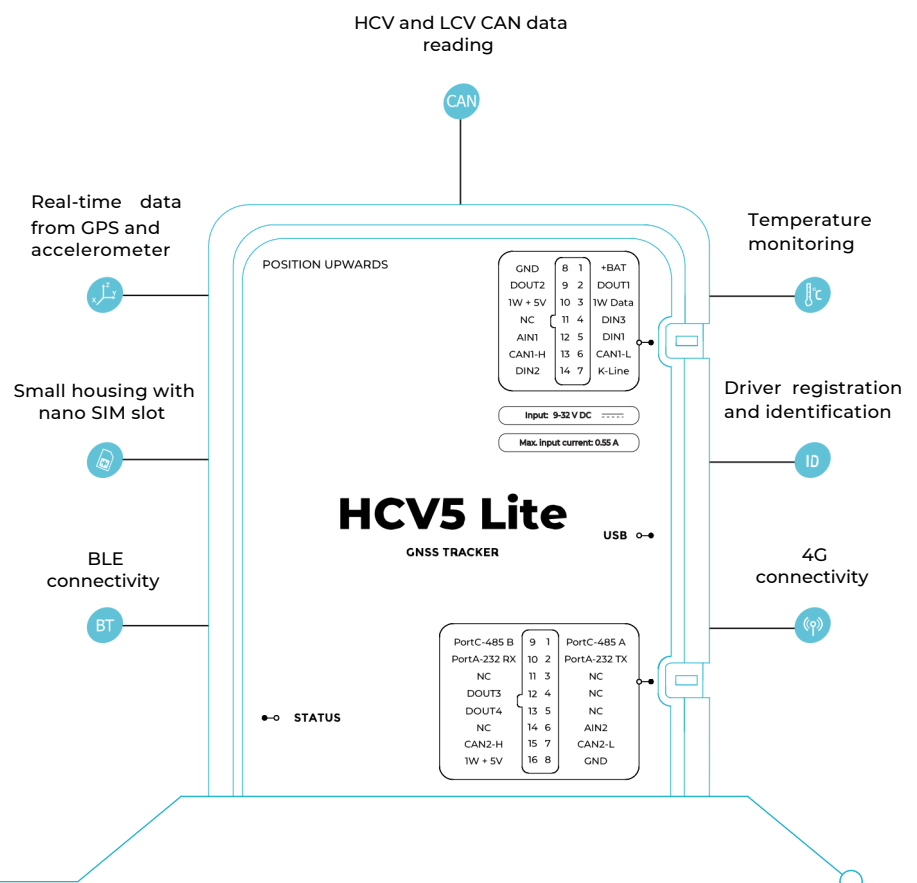
HCV5 Lite

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 CAT1 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



De tailed specifications

Environmental specifications

Temperature	Operating: -20 to +60 °C Storage: -20 to +45 °C Battery charging: 0 to +55 °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 2 amp fuse on the power line

Average power consumption @ 12 V DC

Operating (battery charging)	Normal operation (data sending interval ~15 s): ~100 mA Normal operation (CAN2 enabled): ~120 mA Normal operation (CAN2 & BLE enabled): ~145 mA
Custom sleep	All interfaces disabled: ~30 mA 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 ~4 mA
Advanced sleep (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 inputs Voltage 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) OR
RS485 (DFS, J1708 data reading)

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

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

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
*In progress

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