

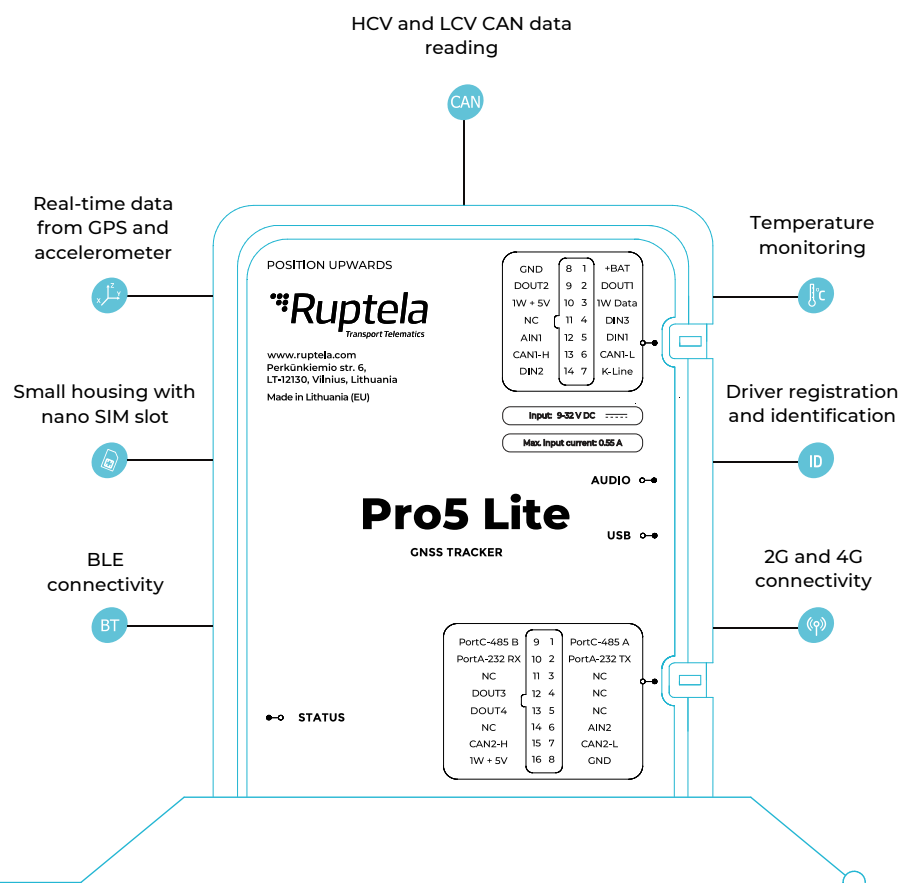
## Pro5 Lite

**Pro5 Lite** is an advanced GPS tracker for Latin America, used in 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, manage fuel, etc.

The device is available with LTE CAT1 bis (4G) and GSM (2G) networks.

## 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

<b>Temperature</b>	Operating: -20 to +60 °C Storage: -20 to +45 °C Battery charging: 0 to +55 °C Battery discharging: -20 to +60 °C
<b>Relative humidity</b>	5% to 95% Non-condensing

### Electrical specifications

<b>Power supply range</b>	9 – 32 V DC
<b>Internal battery</b>	LiPo 3.7 V 1050 mAh
<b>Protections</b>	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

<b>Operating (battery charging)</b>	Normal operation (data sending interval ~15 s): ~100 mA Normal operation (CAN2 enabled): ~120 mA Normal operation (CAN2 & BLE enabled): ~145 mA
<b>Custom sleep</b>	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
<b>Advanced sleep (battery fully charged)</b>	~4 mA

### Connectivity

<b>LTE CAT1 bis/GSM</b>	Antenna: Internal Bands (LTE FDD): B1/B2/B3/B4/B5/B7/B8/B28/B66 Bands (GSM): 850/900/1800/1900 MHz
<b>GNSS module</b>	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)
<b>BLE module</b>	BLE version: 5.0 Low energy

## Detailed specifications

### Interfaces

<b>3 x Digital inputs</b>	Voltage range: 0 - 30 V DC Voltage threshold: 4 V DC Voltage threshold when inverted: 250 mV DC
<b>2 x Analog inputs</b>	Voltage range: 0 - 30 V DC Resolution: 12 bit
<b>4 x Digital outputs*</b>	Maximum voltage: 32 V DC Maximum current: 1 A @ 25 °C
<b>2 x CAN interfaces</b>	High-speed CAN interfaces: 2 FMS, J1939, HCV CAN, LCV CAN, OBD (including proprietary manufacturer data) and tachograph data reading
<b>Switchable serial port</b>	RS232 (DFS, RFID) OR RS485 (DFS, J1708 data reading)
<b>1-Wire interface</b>	Power output: 300 mA @ 4.5 V DC iButton DS1990A, DS1971, DS1982 up to 4 DS18B20 temperature sensors
<b>User interfaces</b>	Micro USB interface 3.5 mm audio jack Indication LED

\* – only available from hardware version FMP5-34-42130 and above. Older versions will include only 2 x digital outputs.

### Features

<b>Internal storage</b>	16 MB
<b>Accelerometer</b>	Built-in 3-axis (auto-calibrating, impact detection, motion sensing, tilt detection, g-force up to 16 g)

### Certifications and ratings

<b>Certifications</b>	FCC, WEEE, ANATEL
-----------------------	-------------------

### Physical properties

<b>Dimensions</b>	101 x 74 x 23 mm
<b>Weight</b>	120 ± 1 g
<b>Housing</b>	Plastic

## Ordering information

<b>Pro5-Lite-LTE-LA</b>	Pro5 Lite with LTE CAT1 bis and BLE
-------------------------	-------------------------------------

### Contact information:

Perkūnkiemio g. 6  
LT-12130 Vilnius, Lithuania  
Phone: +370 520 451 88  
Web: [www.ruptela.com](http://www.ruptela.com)

Datasheet v1.12  
2023-12-04