CargoTrack Platform Devices & Accesories

COSITION UPWAARDS	6ND 8 1 -6A1 00HF 7 20NH No NY - 5V 19 3 WORA ANI 12 5 00K ANI 12 6 00K CAN24 13 6 CAN24 NC 14 7 KEIN Red. 5/2V/C PVP Marchandria Marchandria Mar. 25 S/2V/C PVP Marchandria
HCV GN55 TRACKE Nodel: HCV5-LTM-	R USB ↔+
•• • • PERIPHERALS •• • • CELLULAR •• • • ORS •• • CELLULAR •• • ORS ••	28X 10 2 PortA-232 7X 26X 11 3 PortB-232 7X 3 12 4 GHN 4 13 5 GIN2 14 6 A M14 4 15 7 CAN3 L



POSITION UPWARDS	1W + SV AN2 AN1 CAN2-H NC	5 1 +RAT 9 2 DOUTH 0 3 TAV DWG 11 4 OIN3 2 5 OIN4 3 6 CAN2-U NC R2/00 Press R2/00 Press	(terrent	
CNSS	TRACKER IS-LTM-CL-BT	USB	••	
$ \begin{array}{c} \bullet \bullet \text{ peripherals} \\ \bullet \bullet \text{ cellular} \\ \bullet \bullet \text{ cnss} \\ \hline C \in \text{ EAL} \\ \hline E_{22} \\ \bullet \text{ or } \circ \text{ or } \circ \text{ os } \text{ 2213} \end{array} $	PartiC-48568 9 1 Rysh222 28 80 2 Dysh222 28 80 2 Dourld 232 86 71 3 DOUT4 13 5 ARIS 16 6 CAN5H 15 9 TW+5V 86 8	PortC-685 A PortA-232 TX DINI DIN2 AINA CANI-6 CND		
Contains IC 10224A-20/70986096 Centains FCC 10: XM820/70986096 Made in Lithuania (EU)	GNSS	ANTENNA	0.4	

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Model FM-	
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HCV5 PRO5 LCV5 FM-Plug4 FM-Eco4 ES





Advanced product designed for advanced HCV solutions, remote tachograph download, trailers and refrigerators.

Values

- Versatility multiple inputs/outputs, interfaces for accessories, Bluetooth 5.1, suitable for both -HCV and OBD
- Easy installation wireless solutions, small size, ergonomic design

Excellent performance – premium GNSS by U-blox, premium components

Easy-to-use - screwless housing, dedicated tools (device center, installation assistant), tailored harnesses

Secure – tamper, jamming detection, back-up battery, TLS1.2

High added value solutions – tachograph, trailers, connected trucks, refrigerators

• Audio

reading via 2x CAN interfaces

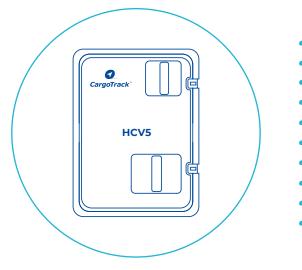
Remote tachograph data reading

antennas

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Bluetooth for accessories

Tampering and jamming detection



	 GNSS antenna Internal and external (available as an additional accessory) Cellular antenna Internal
ising SD card)	 Power supply 9–32V DC Operating temperature
ng on A)	-20 to +60°C • Size 101x 74x 23mm

3.5mm microphone and audio jack*



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



Advanced product designed for advanced HCV solutions, trailers and various other equipment.

Values

- Easy-to-use screwless housing, dedicated tools (device center, installation assistant), tailored harnesses
- Secure tamper, jamming detection, back-up battery, TLS1.2
- High added value solutions trailers, connected trucks
- Versatility multiple inputs/outputs, interfaces for accessories
- Easy installation wireless solutions, small size, п ergonomic design

Excellent performance – premium GNSS by U-blox, premium components

- CANbus GNSS module J1708, J1939, FMS Serial ports 2x RS232, 1x RS485
 - Internal memory 64 Mbit (up to 32 GB us
 - Accelerometer 3-axes, auto-calibrating
 - Firmware configuration
 - SMS/GPRS/USB (FOTA) Audio
 - 3.5mm microphone and audio jack*

* Audio jack is not available with 4G (PR05-LTM-GL-BT)





	 GNSS antenna Internal and external (available as an additional accessory) Cellular antenna Internal
ising SD card)	• Power supply 9–32V DC
ng on N)	 Operating temperature -20 to +60°C Size 101x 74x 23mm

reading and nterface	4xDIN, 4xAIN, 2xDOUT, 3.5mm microphone and audio jack
and external s	RS232 and RS485 interfaces for accessories
th for ries	

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



Advanced product optimized for LCV and passenger vehicle fleets with advanced CAN and OBD reading capabilities.

Values

- Easy-to-use screwless housing, dedicated tools (device center, installation assistant), tailored harnesses
- Secure tamper, jamming detection, back-up battery, TLS1.2

Broad vehicle coverage – proprietary OBD

reading, concealed OBD installation, excellent vehicle coverage

- Versatility multiple inputs/outputs, interfaces for accessories, Bluetooth 5.1
- Easy installation wireless solutions, small size, П ergonomic design, OBD installation

Excellent performance – premium GNSS by U-blox, premium components

- GNSS module U-blox EVA M8M
- Battery LiPo 3.7 V 1050 mAh Internal backup battery
- Inputs 4x digital and 4x analog
- Interfaces
- 2x CAN, K-Line, 1-Wire
- Bluetooth low energy 5.1
- SMS/GPRS/USB (FOTA) • Audio

3.5mm microphone and audio jack*

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* audio jack not available with 4G (LCV5-LTM-GL-BT versions)



2G, 3G and

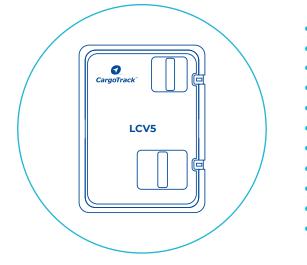
connectivity

Proprietary vehicle data

reading via OBDII port

or directly from Canbus

Tampering and jamming detection Bluetooth for accessories



• CANbus LCV CAN, OBD data reading	• GNSS antenna Internal and external (available as an additional accessory)
• Digital Interfaces 2x RS232, 1x RS485	Cellular antenna Internal
 Internal memory 64 Mbit (up to 32 GB using SD card) 	• Power supply 9–32V DC
 Accelerometer 3-axes, auto-calibrating Firmware configuration SMS/GPRS/USB (FOTA) 	 Operating temperature -20 to +60°C Size 101x 74x 23mm



- Advanced OBD and CAN reading • Business and private trips selection
- Driver behavior monitoring and
- education Safety and security
- Driver identification
- Accident detection and reconstruction
- LCV fuel monitoring
- Real-time monitoring of fleets
- Fleet efficiency optimization
- Customizable with accessories
- Stolen vehicle recovery

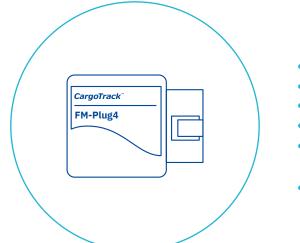
Tracking Devices



FM-Plug4 is a compact tracking device, that connects to the vehicle via OBD2 port. With Plug&Play type installation, the driver can easily install this tracking device during each trip.

Values

- Easy and quick installation – Plug & Play device, compact size
- Operational cost optimization driver behavior monitoring (Eco-Drive)
- Track your employees' trips with ease reliable business/private journeys monitoring with driver identification
- Secure jamming detection, back-up battery to
- detect disconnection



Basic OBD data

reading (FM Plug4+)

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- Firmware configuration • Power supply SMS/GPRS/USB (FOTA) 10 ÷ 32 V DC • Operating temperature -35 +60°C • Size 63 x 52 x 28 mm
- Can, K-Line (FM-Plug4+)

• GNSS antenna

• GSM antenna

Internal

Internal

Interfaces

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(FM-Plug4+)

- Real-time data
- Driver behaviour monitoring (Eco-Drive)
- Driver registration and identification
- Internal Geozones
- Commands and configuration via SMS/GPRS/USB (FOTA)
- Internal microphone



FM-Eco4 ES series allow to connect digital fuel level sensors for accurate and reliable fuel level monitoring. They also improve safety on the roads: fatigue sensors allow detecting and informing the driver when he is tired, distracted, or not focused on the road. The alcohol sensor will send an alert or block the vehicle if the driver is intoxicated. Also this equipment can be used as a transparent channel for easier accessories integration.

- GNSS module
- LiPo 3.7 V 190 mAh

Serial Ports 1xRS232

- Housing
- IP67 certified (option) • Internal memory
- 32 Mb
- Accelerometer
- 3-axes, auto-calibrating
- Firmware configuration
- SMS/GPRS/USB (FOTA)



Values

- Excellent performance and quality premium GNSS by U-blox, premium components
- Concealed installation external GNSS antenna, ergonomic design, IP67 housing

Easy and quick installation - small size, screwless housing, tailored harnesses

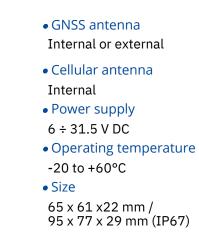
Easy accessories integration - RS232 as a transparent channel

Reliable solutions for safety and security – vehicle blocking, access control, accident detection, geofencing, alerts, cargo monitoring, alcohol detection, driver fatigue monitoring

Operational cost optimization – Eco-Drive, fuel monitoring, driver education (Eco-Drive panel)

Full solution from one hand – GPS tracking п device combined with suitable accessories



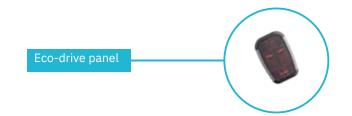


- Real-time data
- Driver behaviour monitoring (Eco-Drive)
- Driver registration and identification
- Driver fatigue monitoring
- Accurate Fuel monitoring
- Temperature monitoring
- Remote ignition blocking
- Transparent channel
- Internal Geozones
- Jamming notifications
- Commands and configuration
- via SMS/GPRS/USB (FOTA)

Wired Accessories



Driver behavior monitoring



The Eco-Drive panel is a device developed and manufactured by Ruptela for monitoring and education of the drivers in the real-time. The panel informs the driver when his/her driving actions are causing fuel wastage and accelerating vehicle depreciation. Driving information is also sent to the real-time monitoring and control system, which analyses driver behaviour and provides data for the driver performance evaluation.



Buzzer is a small audio signaling device that can alert the driver on various events such as when the driver registration is needed, GPS tracker jamming detection, or can be used for driver behavior monitoring.

Fuel monitoring



The fuel level sensor is fully developed and manufactured by Ruptela for universal fuel management – monitoring fuel level, controlling fuel consumption and preventing fuel theft. Pro-digital and Eco-analog fuel level sensor versions are available.

Cargo condition monitoring

1-wire temperature sensor

Ruptela's temperature sensors are designed for measuring the temperature of the cargo and the refrigerators. The sensors operate with an accuracy of ± 0.5 °C in a temperature range from -40°C to +120°C. The sensor housing is IP67 certified, ensuring its durability despite various harsh working environments.

1-wire temperature and humidity sensor



The Temperature & Humidity Sensor is a high-accuracy cargo condition monitoring sensor with 1-Wire interface for vans and heavy-duty vehicles with a trailer. This sensor collects the temperature and humidity in realtime, collects the data, and sends it to a tracking device.

EasyCAN



EasyCAN is used for a fast and safe connection to a vehicle's on-board computer (CANbus). EasyCAN connects a GPS tracking device to the vehicle's onboard computer, without cutting any wires and without violating the manufacturer's warranty. EasyCAN can read data from FMS and J1708 CANbus.

Driver identification

Safety and security

atigue sensor





This accessory can be used when more than one person is using a vehicle or when one person uses several vehicles. It shows who used the vehicle, when, and who was in charge of it. It is possible to block the vehicle's engine and notify the driver by audio signal if the identification is not completed successfully.



RS232 RFID reader

RFID Readers are small card reading devices designed for driver identification. In many cases, security passes that are already used in the company can be adopted. The reader shows who used the vehicle, when, and who was in charge of it.

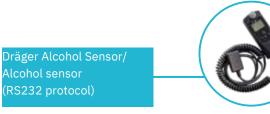


The fatigue sensor is a safe driving system designed for commercial fleets that can connect to Ruptela's devices via RS232 interface. The device alarms the driver upon detection of fatigue or distraction. It also provides ondemand image output to the fleet management system when either of the alarms are triggered. These images serve as the evidence to check the driver's real state and other data, it helps the management centers further improve driver safety and performance.



ndoor or Outdoor Snapshot Camera

Snapshot Cameras will allow you to get snapshots of what was happening at a particular time or event with the vehicle and driver. Indoor or outdoor cameras can automatically take snapshots on set events, such as harsh braking or accelerating, GSM jamming, vehicle towing and others. Snapshot cameras help to ensure vehicle security and provide essential evidence in case of an accident.



Alcohol sensor is a device used to test the concentration of alcohol from the exhaled air by a person. It enables the control of each ignition, prohibiting the start of vehicle if the driver is intoxicated. The device also prevents cheating if the driver uses a balloon or compressed air to blow.



Door sensors record door opening and closing events, which are transmitted to the monitoring system. The device is easily installed, reliable and often used for monitoring opening-closing events in refrigerated semi-trailers. The door sensors are perfectly adapted to protect cargo against the third party actions and natural forces.

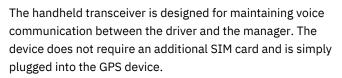


Panic Buttons increase the safety of the vehicle, driver and cargo. In case of an emergency, the driver can quickly send an emergency message to the manager. The message is received in the monitoring and control system or by SMS.



The engine relay is a device designed to block the engine of a vehicle, offering protection against unauthorised use of the vehicle. Remote activation of the relay is possible through a monitoring and control system or by SMS.

Push to talk



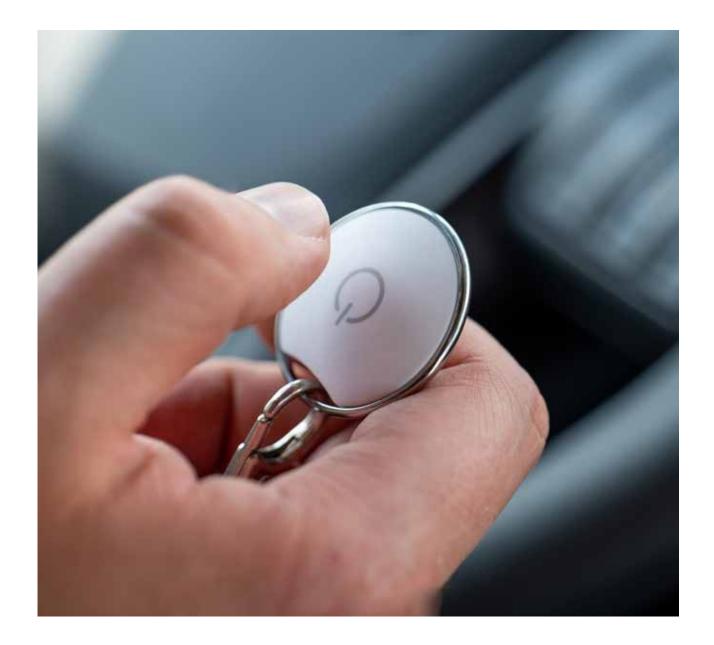
External GNSS antenna

External GNNS antenna can be connected to the 5th generation advance family devices (HCV5, LCV5, Pro5) for more accurate fleet location especially when it is needed to hide GPS tracker under metal construction in the vehicle. If the external antenna is damaged or disconnected, the internal one will take over and you will get notification that someone is trying to interrupt fleet monitoring or damage the HW device.



Bluetooth sensors for wireless solutions

Wireless solutions save time and reduce installation costs.



Vehicle and cargo condition monitoring

- Temperature sensor
- Temperature and humidity sensor
- Low range temperature and humidity
- sensor Technoton fuel level sensor
- (coming soon) Door sensor (coming soon)
- Weight sensor (coming soon)

Trailer identification

• Temperature and humidity sensor

Driver identification

Wireless button

Compatible with: HCV5, LCV5, PRO5 BLE GPS Trackers





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