

The shortcut to amazing growth

FLEET MANAGEMENT GPS TRACKING TELEMATICS



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Hello!

We are Ruptela, a technology company providing products and solutions for telematics, fleet management, and GPS tracking.

Ruptela is a customer-centric company that focuses on reducing clients' efforts by accelerating ease of use, prediction, and automation. We believe that this is the main path towards our vision - to power the most efficient use of transport for the sustainable world.

Our journey started in 2007 when Andrius Rupsys founded Ruptela. Since then, we have grown from a team of 3 people to a team of over 250 people working with clients in 127 countries in Europe, Asia, the Middle East, Africa, North America, and Latin America.

Today, our in-house R&D team develops and manufactures hardware, firmware, and software products ensuring the most accurate and reliable fleet management and GPS tracking. Thus, Ruptela's presented devices have a proven 99.9% quality rate and can be adapted for use in different regions according to the existing needs.

In 2019 Ruptela received the European Connected Fleet Customer Value Leadership Award from Frost & Sullivan. Such official recognition proves our customer-centric approach and acknowledges the outstanding attention we pay to our customers throughout the cooperation stages.

Our values are Courage, Care, and Evolution.



Solutions

Platform

Devices

Routing and Tasking
Keyless Technology for Shared Mobility
Light Commercial Vehicle Tracking
Tachograph
Safety & Security
Fuel Monitoring & Control
Eco-Drive

Routing and Tasking solution

New route planning and task management solution adds and upgrades the overall functionality while making it simple to use on both application and service levels.



Solution:

Routing & Tasking

Ease of use and simplicity unlocks growth potential. That is why we have introduced the advanced route planning and task management solution that upgrades functionality while making it simple to use on both application and service levels. User-friendly driver navigation and advanced features bring efficiency to the routing and tasking functions in real-time.

Integration Ready

Used technologies enable the integration and support of any 3rd party applications (e.g., Amazon app, Fuel app).

Everyday Use and Onboarding

Ready-to-use solution with in-built industrial navigation, driver app, tablet, and data connectivity, focus on seamless user experience for dispatchers and drivers.

Transparent and Simple Pricing

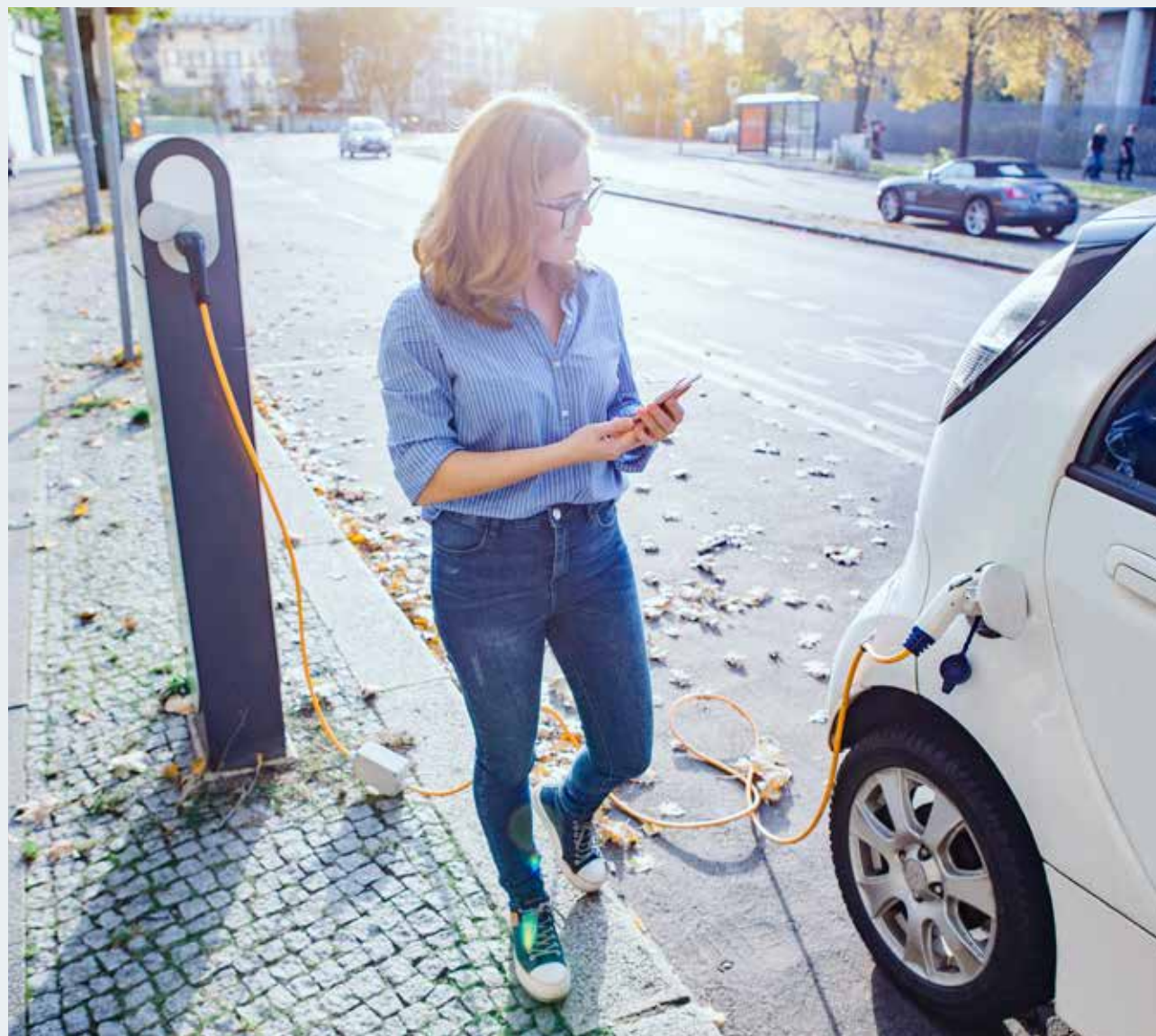
All the benefits are under a single payment plan, there's no extra charge for the driver app.

Trip Planning and Task Management

Advanced route planning solution for long haul transportation with HCV attributes. Set vehicle parameters, route type, and select which roads should be avoided - prevent ineffective routes, driver mistakes, as well as expensive and restricted roads.

Keyless Technology for Shared Mobility

We help you expand your fleet capabilities by offering tailored technology for different shared mobility use cases.



Safety & Security

In a connected world, the security of used technology is critical. Whether it is a physical or digital threat, our shared mobility technology is fully protected. With TLS security certificate, tamper detection, dual-antenna for the in-car device, and car ignition blocking, our technology is ready to overcome any intentional threats.

Features such as accident detection and car towing detection help to investigate various incidents, that often happen in car-sharing business.



Fleet Management

Live data

Live location, fuel level, battery level, historical data and more.

Alerts and notifications

Receive alerts for vehicle maintenance (low oil level), safety (overspeeding) and other important events.



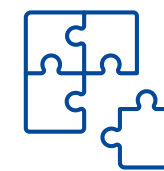
Scalability & Availability

99.5% and higher platform availability ensure uninterrupted „Shared Mobility“ services. Thanks to Microsoft Azure Cloud, we have multiple back-up data centers to lower any risks, and we can quickly scale technology to meet your business needs and customer base growth. Also, our powerful API solution enables different integrations and custom developments.



Driver scoring

Rank or give score to users based on their driving behaviour information. Provide users with insights on their driving style and boost employee engagement with gamification.



Provisioning

Easy to set-up products come with all required tools, manuals and guidelines. With everything in place, it will take no time for installers to set-up the vehicle.



Keyless Technology

- Track different parameters (door status, battery level for electric vehicles, distance until recharge)
- Send commands to control the vehicle:
 - door lock/unlock via GSM and Bluetooth
 - ignition blocking
- Supporting the latest vehicle models in Europe.



Use cases

Multiple use cases: car rental, car sharing, corporate car sharing, car leasing, car dealers.

Light Commercial Vehicle Tracking

Easy-to-use, secure, and reliable solution. Read manufacturer-specific CANbus data via OBDII port from passenger vehicles, vans, and light commercial vehicles.



Professional solution

Get CANbus data via OBDII port form light commercial vehicles.

To receive manufacturer-specific CANbus data, the LCV5 tracking device is connected to the OBDII port in the vehicle using a special harness. The Plug&Play type-of-installation takes only a few minutes, and after that, the tracker automatically detects the vehicle model and completes the configuration.

Wide range data is available through OBDII port to get 100% accurate and reliable CANbus data. The most popular parameters:

- RPM
- Speed
- Fuel level
- Odometer
- VIN

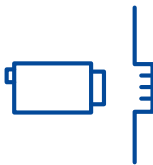
If the OBD solution doesn't fit your needs, we can provide solutions that can be connected directly to CANbus.



Concealed installation

Super easy concealed and secure OBD installation using Ruptela's OBDII splitter harness and advanced algorithms that prevent troubles when other third-party scan tools are connected (e.g., during the maintenance of the vehicle).

Solution is available with LCV5 and HCV5 devices.



Safe and risk-free

Based on the official technical knowledge of the vehicle manufacturers.

With the Plug&Play installation, there is no wire cutting and no other physical manipulation with vehicle wires. Communication with the vehicle is read-only type - there are no configurations done to the vehicle itself. This solution does not void vehicle manufacturer's warranty.

Communication via OBDII port is based on automotive ISO standards and the official technical knowledge base from vehicle manufacturers.

Only Ruptela manufactured products are used - no additional external adapters are needed.



Coverage

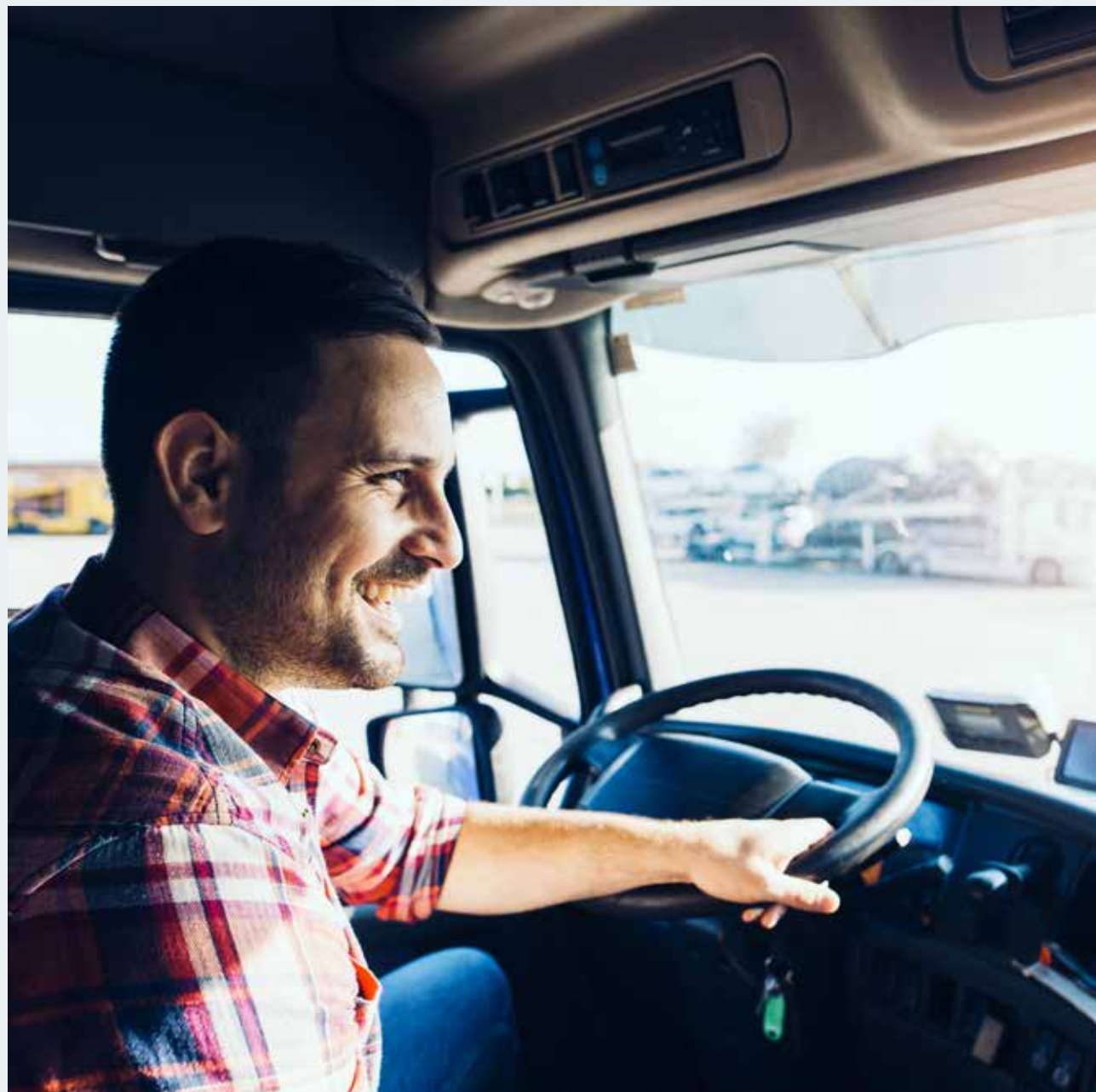
Comprehensive vehicle coverage in Europe.

More than 80% of total running vehicles in Europe are covered. Perfect support of popular commercial VANS and caddies.

- | | | | |
|--------------|--------------|--------------|--------------|
| • Alfa Romeo | • Hyundai | • Mazda | • Seat |
| • Audi | • Infiniti | • Mercedes | • Ssangyong |
| • Bmw | • Isuzu | • Mini | • Subaru |
| • Citroen | • Jaguar | • Mitsubishi | • Suzuki |
| • Dacia | • Jeep | • Nissan | • Škoda |
| • Fiat | • Kia | • Opel | • Toyota |
| • Ford | • Land Rover | • Peugeot | • Volkswagen |
| • Honda | • Lexus | • Renault | • Volvo |

Tachograph Solution

Our complete solution for digital tachographs helps to manage drivers' time more efficiently and ensures compliance with EU regulations.



Remote Tachograph File Download

Make tachograph file management fast, easy and error-free.

Tachograph files download automatically based on a created schedule with custom settings. Tachograph files and driver card files are downloaded in .DDD format or .tgd and .v1b formats.

- Tachograph file and driver card file download.
- Automatic download by custom schedules.
- Download, upload and manage files.
- Driver detection and automatic assignation from driver card.

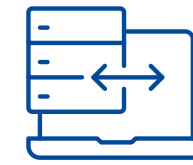


Driving times

View driving and resting times and be aware of caused violations.

Driving Times module helps to prevent fines for violating EU-regulation (EC) No 561/2006, analyse drivers time easier and improve operations planning.

- See the summary of driver's week and day in a timeline.
- See which rules were violated.
- See violation details and violation severity.
- See what is permitted according to the regulation, and how the driver violated it.

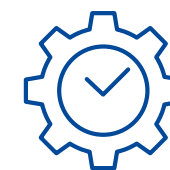


File and data transfer

Transfer tachograph files and data to 3rd party systems using API.

The tachograph files can be automatically transferred to other FTP servers. Information about the drivers' working time can also be transferred to 3rd party systems, using API solution.

- Direct tachograph files transfer to 3rd party FTP server.
- Easy way to transfer files and data for 3rd party analysis.



Time Analysis

Plan better trips and avoid fines for violating driving time regulation.

Manage working, driving, and resting times of the driver based on (EC) 561/2006 regulation. Time analysis module shows the summary of the driver's working time:

- Time left to drive this day and week.
- When the driver should make the following daily and weekly rest stop.
- Time already driven and worked.
- Extended driving and reduced rest events.

Safety & Security

Add extra safety and security measures to improve the protection of the cargo, driver, vehicle and trailer.



Remote ignition blocking

Prevent vehicle from unauthorized use or theft by remotely blocking vehicle ignition.

Engine block relay installed to the vehicle enables the user to block vehicle ignition remotely or start the vehicle only after the driver identification is complete. It ensures that the vehicle is used only by authorized employees who confirm their identity with RFID card or Bluetooth button.



Temperature monitoring

Monitor cargo temperature and get notifications in case of any deviations.

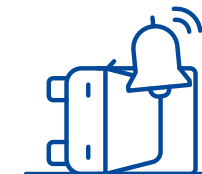
Temperature data is received directly from refrigerated trailer or from additionally installed temperature sensors. When cargo temperature changes, notifications are sent via various channels allowing to take preventative actions.



Door status monitoring

Get information when trailer or cargo hold doors are opened.

Door sensors installed to the trailer allow the user to know when and where trailer doors were opened and closed. It helps to protect cargo by sending an email, SMS, or in-system notifications on door opening events to the responsible employee.



Other

Choose from many other safety and security solutions.

Other solutions include: Trailer assignation, Panic button, Alarm system, Rollover alert, Advanced driver assistance system, Geozones, Fatigue sensor, Driver identification.

Fuel Monitoring & Control

Monitor fuel level and prevent fuel thefts with fuel monitoring and control system.



Fuel Tank Control

See where, when and how much fuel was filled into the tank.

Ensure that the tank is filled with all the purchased fuel. Rate drivers and vehicles according to their fuel consumption and set fuel consumption rates for vehicles.



Fuel Theft Protection

Get live notification when fuel is drained from the vehicle.

Fuel module helps to identify fuel theft events – sudden fuel level drops in the fuel consumption graphic shows possible fuel theft event.



Reports and notifications

Receive detailed fuel level and fuel consumption reports.

See the total amount of fuel consumed, fuel level at the beginning and the end of the trip, average fuel consumption, refueling, fuel draining events, and more. Get instant notifications on fuel draining events via SMS, email, or in-system.



Fuel data

Get reliable fuel data.

Tracking device collects fuel level and consumption data from vehicle on-board computer (CANbus) or from a fuel level sensor, which is installed into the fuel tank.

Eco-Drive

Reduce fuel consumption, improve fleet safety and set-up a motivation system by monitoring and analysing driver behaviour.



Driver ranking and motivation

Rank drivers by performance and identify places for improvement.

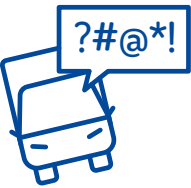
Driver behaviour analytics and reports show which driving skills and areas need improvement. It helps to understand how an employee’s driving style should change to drive economically and eliminate fuel wastage.



Economical driving

Reduce fuel consumption and wear and tear of the vehicle by educating drivers.

Driver behaviour analytics and reports show which driving skills and areas need improvement. It helps to understand how the employee’s driving style should change to drive economically and prevent fuel wastage.



Road safety

Improve fleet safety by measuring dangerous driving points.

Eco-Drive solution calculates dangerous driving points for each driver and vehicle. Dangerous driving points are based on extreme braking, overspeeding, harsh braking and harsh acceleration events.



Full fleet visibility

Get unified data from all vehicles.

Eco-Drive solution provides a unified data for all fleet, that can be objectively compared. It doesn’t matter if the fleet contains different manufacturer vehicles, Eco-Drive solution gathers data based on the same system and logic from all vehicles.

Solutions Platform Devices

TrustTrack
TrustTrack Benefits
TrustTrack Plans

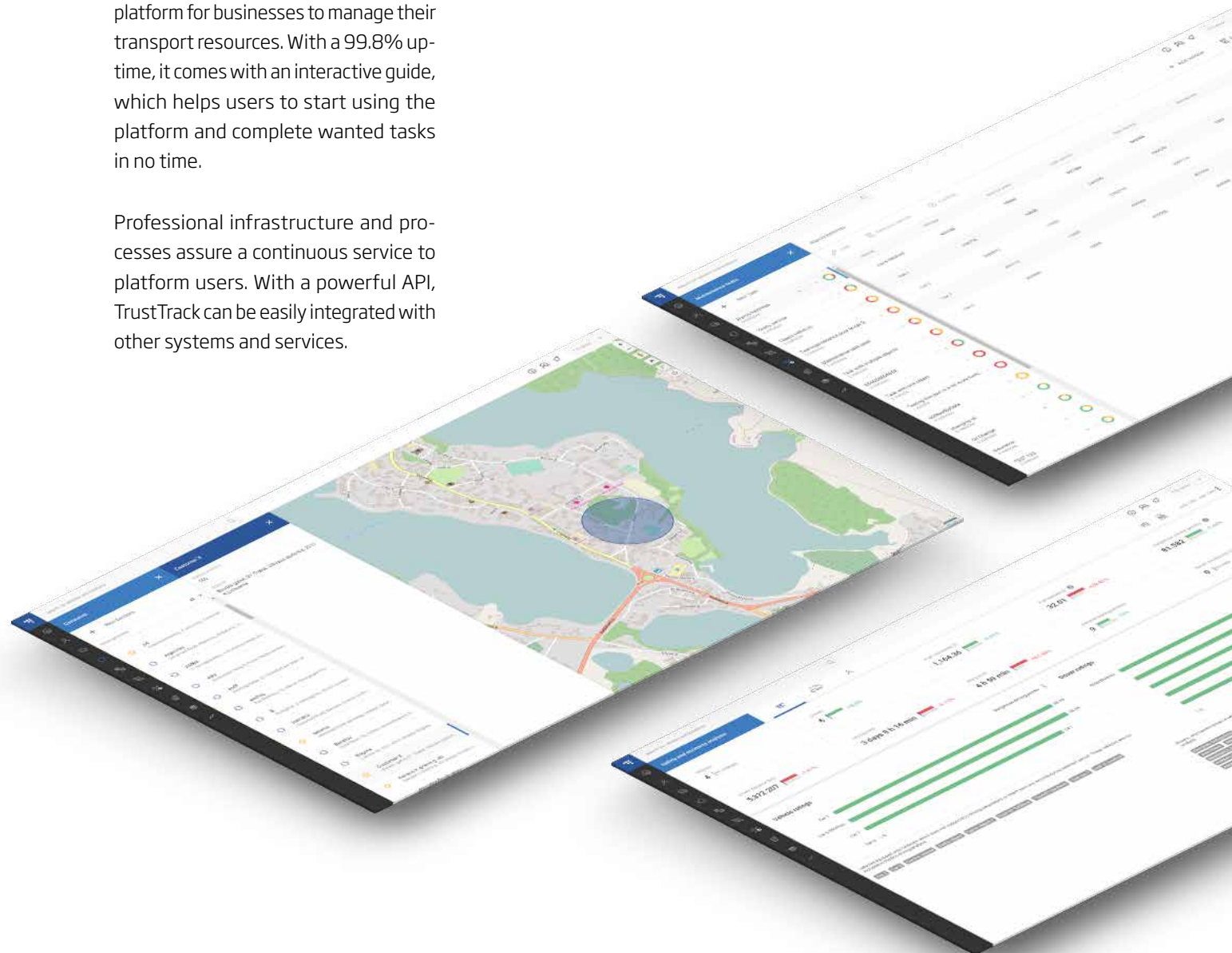
TrustTrack

Make any fleet of vehicles visible and efficient with TrustTrack fleet management platform.

Integral, trustworthy and easy-to-use

TrustTrack is an easy-to-use, trustworthy, integral, and advanced telematics platform for businesses to manage their transport resources. With a 99.8% up-time, it comes with an interactive guide, which helps users to start using the platform and complete wanted tasks in no time.

Professional infrastructure and processes assure a continuous service to platform users. With a powerful API, TrustTrack can be easily integrated with other systems and services.



Vehicle tracking is a proven way to improve fleet performance. It enables companies to optimise operating costs, increase efficiency and save time. Vehicle tracking enables fleet managers and operators to react to any changes and make better informed decisions.



Telematics

Use advanced features to improve fleet performance.

- Driver behaviour monitoring.
- Fuel level and consumption monitoring.
- On-board computer data reading (CANbus).
- Trailer temperature monitoring.
- Custom events.
- Tachograph data.
- Vehicle maintenance management.
- Route planning and task management.



GPS Tracking

Make any fleet of vehicles visible and efficient.

- Real-time vehicle location and status.
- Vehicle address and coordinates.
- Share vehicle location with 3rd parties.
- Vehicle historical data.
- Various reports for trip and vehicle activity.
- Speed, fuel level and other parameters.
- Street view and traffic information.

1
Fleet status
Fleet activity information to make better decisions.

3
Communication
Send messages and files to drivers from the platform.

5
Events
Get notifications when specific events happen.

7
Maintenance tasks
Get notifications when the vehicle needs to be serviced.

9
Driving times
Monitor the driving and resting times of the driver.

11
Eco-Drive
Rank drivers by driving style, wasted fuel and efficiency.

2
Drivers
Create and manage drivers.

4
Geozones
Manage vehicles with pre-set work areas.

6
Routing & Tasking
Create routes, assign tasks and send them to drivers.

8
Tachograph
Remotely download data from tachograph.

10
Reports
Customise, generate and subscribe to reports.

12
Dashboard
Get an overview of fleet performance.

13
Vehicle status overview
Vehicle location and activity summary.

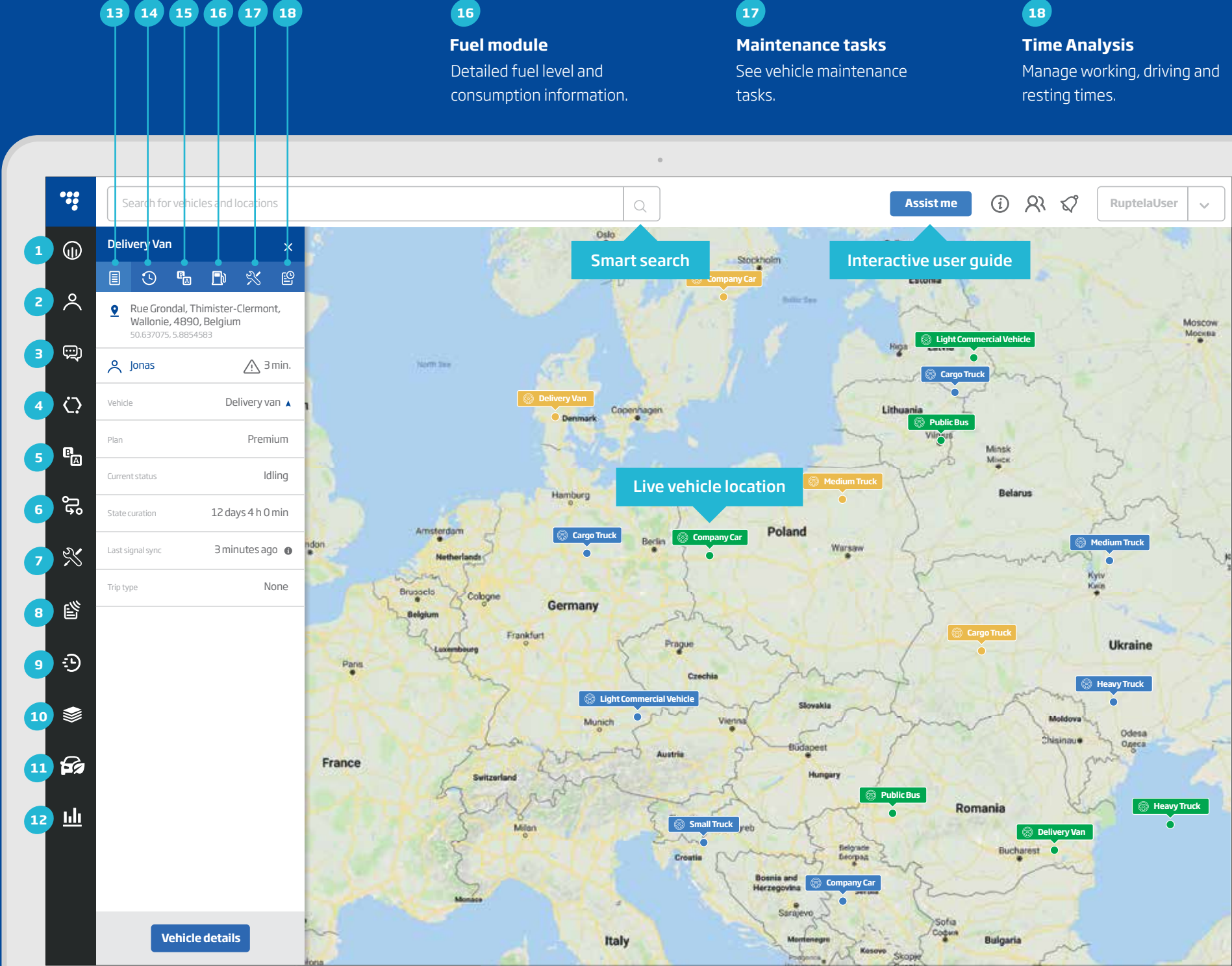
16
Fuel module
Detailed fuel level and consumption information.

14
Trip history
View vehicle travel history.

17
Maintenance tasks
See vehicle maintenance tasks.

15
Vehicle events
All vehicles in one place.

18
Time Analysis
Manage working, driving and resting times.

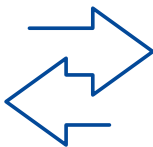


TrustTrack Benefits



Service providers

Service providers using TrustTrack also get a user management platform - Admin panel. This panel makes it easier to create, edit and control. Simultaneously, clear service packages, fixed monthly fees, and a SaaS option facilitate the smoother provision of tracking services.



Connect & Integrate

Connect drivers, vehicles, tasks, routes, KPIs, and all other data on a single platform.



Vehicle Tracking

Monitor real-time vehicle location, view trip history, send routes, messages and tasks to drivers, get reports with notifications and more!



Features & Plans

TrustTrack comes in four packages that offer a different set of features - Basic, Basic Plus, Standard, and Premium.



Telematics

Get data from digital tachograph, CANbus, monitor fuel level and consumption, rate drivers by their driving style and much more!



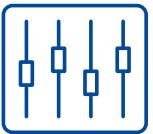
User-friendly

TrustTrack is a user-oriented platform with a simple and intuitive user interface. It is a fast and proactive platform.



Mobile Apps

TrustTrack app for fleet managers comes for iOS and Android operating systems. Driver app for drivers comes for Android devices only.



Admin Panel

Admin panel is a user management platform for service providers. It makes it easier for service providers to create, edit and control their clients (end users).

TrustTrack Plans

	Basic	Basic Plus	Standard	Premium
Dashboard	✓	✓	✓	✓
OSM Maps	✓	✓	✓	✓
Shared links	✓	✓	✓	✓
Object overview with location on map	✓	✓	✓	✓
Object historical data (history + raw data)	✓	✓	✓	✓
Geozones management	✓	✓	✓	✓
Events creation and triggering (conditions: geozones, parameters and ignition)	✓	✓	✓	✓
Drivers management and assignation: manual and iButton	✓	✓	✓	✓
Routing: From A to B	✓	✓	✓	✓
Reports: Trips report	✓	✓	✓	✓
Reports: Working hours report	✓	✓	✓	✓
Google Maps (tiles, geocoding, routing, traffic, street-view)		✓	✓	✓
API: Objects, History, Streaming, Trips, Drivers		✓	✓	✓
Fuel tank module		✓	✓	✓
Reports: Events report		✓	✓	✓
Reports: Temperature report		✓	✓	✓
Task management and communication			✓	✓
Route planning (Google maps)			✓	✓
Automatic driver assignation as per driver's card			✓	✓
Driver app			✓	✓
Time analysis overview (fleet status menu)			✓	✓
Timocom integration			✓	✓
Maintenance module			✓	✓
Eco-Drive module			✓	✓
Digital tachograph files download module			✓	✓
Reports: Travel summary report			✓	✓
Reports: Geozones report			✓	✓
Reports: Fuel report			✓	✓
Reports: Eco driving report			✓	✓
Reports: Exceeded value report			✓	✓
Driving Times module (violations analysis)				✓
Reports: Driver working time report				✓
Reports: Driver time table report				✓
Reports: Country report				✓

Additional Solutions Available

- ✓ HCV Route planning and navigation (HERE maps)
- ✓ HU-GO
- ✓ SENT-GEO

Solutions Platform Devices



HCV5
PRO5
LCV5
FM-Plug4
FM-Eco4+ T
FM-Eco4 light+ T
FM-Eco4 RS T

01.

HCV5

- HCV5-2G-GL-BT
- HCV5-3G-GL-BT
- HCV5-LTM-GL-BT



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

- **GNSS module**
U-blox EVA M8M
 - **Battery**
LiPo 3.7 V 1050 mAh
Internal backup battery
 - **Inputs**
4x digital and 4x analog
 - **Outputs**
4x digital
 - **Interfaces**
2x Can, K-Line, 1-Wire
 - **Bluetooth**
Bluetooth low energy 5.1
- **CANbus**
J1708, J1939, FMS
 - **Serial ports**
2x RS232, 1x RS485
 - **Internal memory**
64 Mbit (up to 32 GB using SD card)
 - **Accelerometer**
3-axes, auto-calibrating
 - **Firmware configuration**
SMS/GPRS/USB (FOTA)
 - **Audio**
3.5mm microphone and audio jack*
- **GNSS antenna**
Internal and external (available as an additional accessory)
 - **Cellular antenna**
Internal
 - **Power supply**
9-32V DC
 - **Operating temperature**
-20 to +60°C
 - **Size**
101x 74x 23mm

* Audio jack is not available with 4G (HCV5-LTM-GL-BT version)



2G, 3G and 4G connectivity



Canbus and OBD data reading via 2x CAN interfaces



4xDIN, 4xAIn, 2xDOUT, 3.5mm microphone and audio jack



Remote tachograph data reading



Internal and external antennas



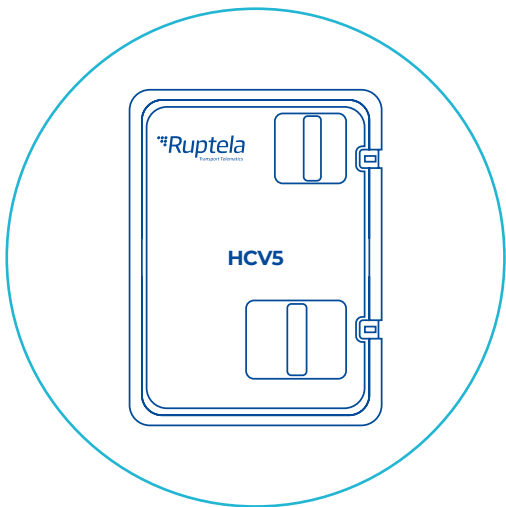
RS232 and RS485 interfaces for accessories



Bluetooth for accessories



Tampering and jamming detection



- 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

02.

Pro5

- PRO5-2G-GL-BT
- PRO5-3G-GL-BT
- PRO5-LTM-GL-BT



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, ergonomic design
- ✓ **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
 - **Outputs**
4x digital
 - **Interfaces**
1xCan, 1-wire
 - **Bluetooth**
Bluetooth low energy 5.1
 - **CANbus**
J1708, J1939, FMS
 - **Serial ports**
2x RS232, 1x RS485
 - **Internal memory**
64 Mbit (up to 32 GB using SD card)
 - **Accelerometer**
3-axes, auto-calibrating
 - **Firmware configuration**
SMS/GPRS/USB (FOTA)
 - **Audio**
3.5mm microphone and audio jack*
 - **GNSS antenna**
Internal and external (available as an additional accessory)
 - **Cellular antenna**
Internal
 - **Power supply**
9-32V DC
 - **Operating temperature**
-20 to +60°C
 - **Size**
101x 74x 23mm
- * Audio jack is not available with 4G (PRO5-LTM-GL-BT)



2G, 3G and 4G connectivity



CANbus reading and 1xCAN interface



4xDIN, 4xAIn, 2xDOUT, 3.5mm microphone and audio jack



Fuel monitoring and control



Internal and external antennas



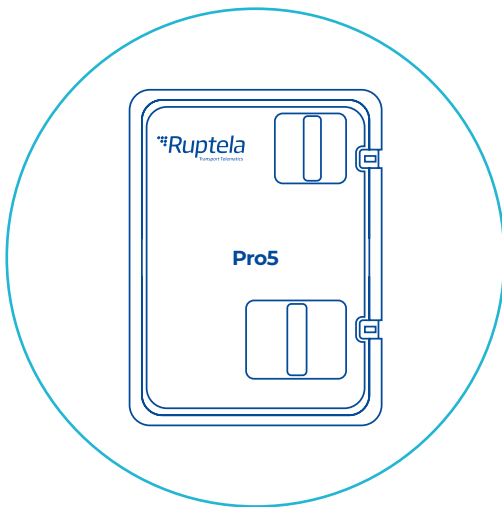
RS232 and RS485 interfaces for accessories



Tampering and jamming detection



Bluetooth for accessories



- 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

03.

LCV5

- LCV5-2G-GL-BT
- LCV5-3G-GL-BT
- LCV5-LTM-GL-BT



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, 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

• **Outputs**
4x digital

• **Interfaces**
2x CAN, K-Line, 1-Wire

• **Bluetooth**
Bluetooth low energy 5.1

• **CANbus**
LCV CAN, OBD data reading

• **Digital Interfaces**
2x RS232, 1x RS485

• **Internal memory**
64 Mbit (up to 32 GB using SD card)

• **Accelerometer**
3-axes, auto-calibrating

• **Firmware configuration**
SMS/GPRS/USB (FOTA)

• **Audio**
3.5mm microphone and audio jack*


• **GNSS antenna**
Internal and external (available as an additional accessory)


• **Cellular antenna**
Internal


• **Power supply**
9-32V DC


• **Operating temperature**
-20 to +60°C


• **Size**
101x 74x 23mm
- * audio jack not available with 4G (LCV5-LTM-GL-BT versions)


- 2G, 3G and 4G connectivity


Concealed and quick OBD installation using splitter harnesses


Wide vehicle model coverage

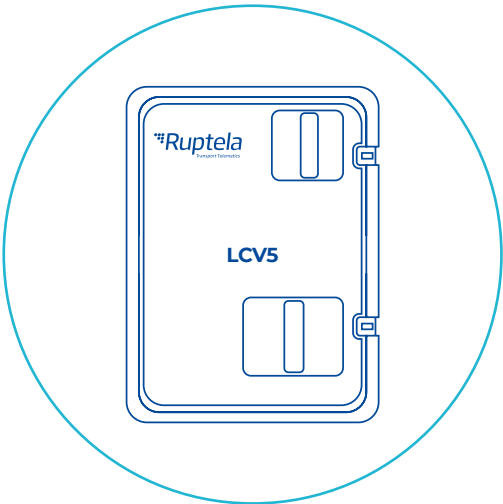
Proprietary vehicle data reading via OBDII port or directly from Canbus

Automatic model detection and configuration

Basic LCV DTC reading

Tampering and jamming detection

Bluetooth for accessories



- 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

04.

FM-Plug4

- FM-Plug4 (without internal battery)
- FM-Plug4+ (with internal battery and basic OBD reading)








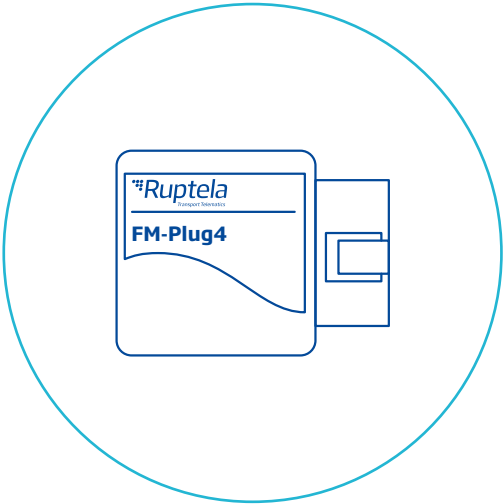
FM-Plug4 is a compact tracking device, that connects to the vehicle via OBD2 port. With Plug&Play type installation, the driver can easily install this tracking device during each trip.

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

- | | | |
|---|--|---|
| • GNSS module
U-blox EVA M8M | • Firmware configuration
SMS/GPRS/USB (FOTA) | • Power supply
10 ÷ 32 V DC |
| • Battery
LiPo 3.7 V 190 mAh (FM-Plug4+ only) | • GNSS antenna
Internal | • Operating temperature
-35 +60°C |
| • Internal memory
32 Mb | • GSM antenna
Internal | • Size
63 x 52 x 28 mm |
| • Accelerometer
3-axes, auto-calibrating | • Interfaces
Can, K-Line (FM-Plug4+) | |

- | | | |
|--|---|--|
|  2G connectivity |  Plug&Play installation |  Quick self-installation |
|  Basic OBD data reading (FM Plug4+) |  Back-up battery (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

05.

FM-Eco4+T

- FM-Eco4+ T (internal antenna)
- FM-Eco4+ E T (external antenna)
- FM-Eco4+ 3G T (internal antenna)
- FM-Eco4+ 3G E T (external antenna)



Tracking device with IP67 housing and internal or external GNSS antenna. Fully waterproof and dustproof housing (IP67 certified) protects device from water, dirt and constant vibration. The external antenna allows device to be installed in areas, that are hard to find and access or are surrounded by metal parts.

Values

- ✓

Excellent performance and quality - premium GNSS by U-blox, premium components
- ✓

Outstanding resistance of the housing - IP67 ensures ability to survive in harsh environments
- ✓

Concealed installation - external GNSS antenna, ergonomic design, IP67 housing
- ✓

Secure - jamming detection, back-up battery
- ✓

Reliable solutions for safety and security - vehicle blocking, access control, accident detection, geofencing, alerts, cargo monitoring
- ✓

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

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

- **GNSS module**

U-blox EVA M8M
- **Battery**

LiPo 3.7 V 190 mAh
- **Inputs**

4x digital and 2x analog
- **Outputs**

2x digital
- **Interfaces**

1-Wire
- **Housing**

IP67 certified
- **Internal memory**

32 Mb
- **Accelerometer**

3-axes, auto-calibrating
- **Firmware configuration**

SMS/GPRS/USB (FOTA)
- **GNSS antenna**

Internal or external
- **Cellular antenna**

Internal
- **Power supply**

6 ÷ 31.5 V DC
- **Operating temperature**

-20 to +60°C
- **Size**

95 x 77 x 29 mm



2G and 3G connectivity



High resistance to external damage



Very easy installation



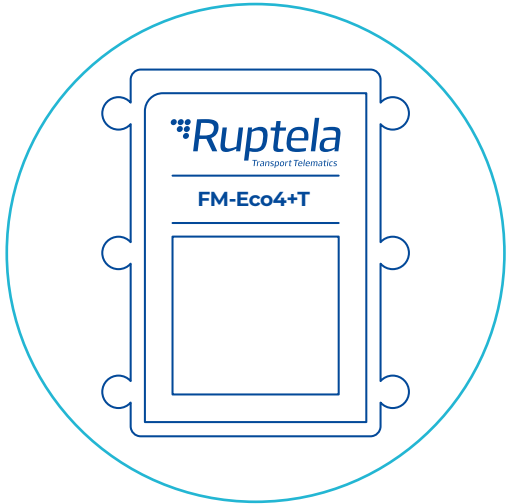
IP67 housing and built-in battery



With internal or external GNSS antenna



4xDIN, 2xAIn, 2xDOUT, 1-Wire interface



- Real-time data
- Driver behaviour monitoring (Eco-Drive)
- Driver registration and identification
- Remote ignition blocking
- Fuel monitoring
- Internal Geozones
- Jamming notifications
- Disconnected antenna detection
- Commands and configuration via SMS/GPRS/USB (FOTA)
- 2x configurable (invertible) digital inputs (DINs)

06.

FM-Eco4 light+T

- FM-Eco4 light T
- FM-Eco4 light+ T
- FM-Eco4 light+ 3G T



Easy-to-install and reliable vehicle tracker. FM-Eco4 light+T comes with all essential features for vehicle tracking and fleet management. FM-Eco4 light+T has 2x configurable (invertible) digital inputs (DINs). This allows easier installation of buttons, door sensors and other accessories.

Values

- ✓ **Excellent performance and quality** - premium GNSS by U-blox, premium components

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

✓ **Reliable solutions for safety and security** - vehicle blocking, access control, accident detection, geofencing, alerts, cargo monitoring

✓ **Secure** - jamming detection, back-up battery
- ✓ **Operational cost optimization** - Eco-Drive, fuel monitoring, driver education (Eco-Drive panel)

✓ **Full solution from one hand** - GPS tracking device combined with suitable accessories

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

- **GNSS module**
U-blox EVA M8M

• **Battery**
LiPo 3.7 V 190 mAh

• **Inputs**
4 x digital and 2 x analog

• **Outputs**
2 x digital

• **Interfaces**
1-Wire
- **Internal memory**
32 Mb

• **Accelerometer**
3-axes, auto-calibrating


• **Firmware configuration**
SMS/GPRS/USB (FOTA)


• **GNSS antenna**
Internal
- **Cellular antenna**
Internal


• **Power supply**
6 ÷ 31.5 V DC


• **Operating temperature**
-20 to +60°C


• **Size**
65 x 61 x 22 mm


 2G and 3G connectivity

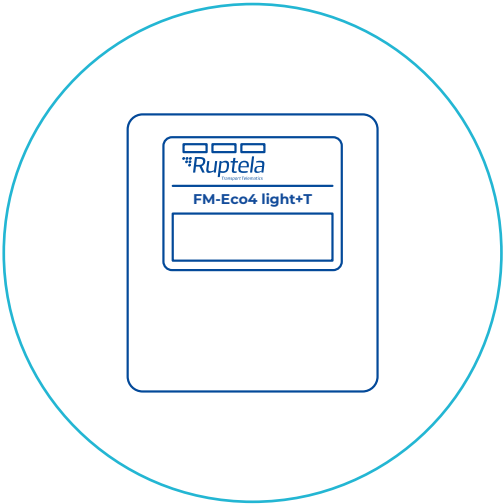
 Quick and easy installation

 Internal antenna and built-in battery

 2x configurable (invertible) digital inputs

 4xDIN, 2xAIN, 2xDOUT, 1-Wire interface

 Small size



- Real-time data
- Driver behaviour monitoring (Eco-Drive)
- Driver registration and identification
- Temperature monitoring
- Remote ignition blocking
- Internal Geozones
- Jamming notifications
- Commands and configuration via SMS/GPRS/USB (FOTA)
- 2x configurable (invertible) digital inputs (DINs)

07.

FM-Eco4 RS T

- FM-Eco4 light+ RS T
- FM-Eco4 light+ 3G RS T
- FM-Eco4+ E RS T
- FM-Eco4+ 3G E RS T



FM-Eco4 RS T series devices with RS232 serial port 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, RS232 can be used as a transparent channel for easier accessories integration.

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 device combined with suitable accessories

- **GNSS module**
U-blox EVA-M8M

• **Battery**
LiPo 3.7 V 190 mAh

• **Inputs**
3x Digital and 1x Analog

• **Outputs**
2 x digital

• **Interfaces**
1-Wire

• **Serial Ports**
1xRS232

• **Housing**
IP67 certified (option)

• **Internal memory**
32 Mb

• **Accelerometer**
3-axes, auto-calibrating


• **Firmware configuration**
SMS/GPRS/USB (FOTA)

• **GNSS antenna**
Internal or external


• **Cellular antenna**
Internal


• **Power supply**
6 ÷ 31.5 V DC


• **Operating temperature**
-20 to +60°C


• **Size**
65 x 61 x22 mm /
95 x 77 x 29 mm (IP67)
-  **2G and 3G connectivity**

IP67 IP67 housing

 **With internal or external GNSS antenna**

 **RS232 serial port**

 **3xDIN, 1xAIN, 2XDOUT, 1-wire interface**

 **Small size**
-
- 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)

GPS trackers compatibility matrix

Product Family		Commercial Name	Order Code	Connectivity					Battery	Interfaces														3.5mm Audio/Microphone Jack	SD card slot
				2G	3G	LTE CAT M1	NB IoT	BLE		GNSS Antenna	Housing	IP rated	CAN	K-Line	RS232	RS485	1-Wire	DIN	DOUT	AIN					
5th generation Advanced Family	Pro5-2G-GL	Pro5 2G		✓					1050 mAh	✓	Optional		1x	1x	2x	1x	✓	4x	4x	4x	✓	✓			
	Pro5-2G-GL-BT	Pro5 2G BLE		✓				v5.1	1050 mAh	✓	Optional		1x	1x	2x	1x	✓	4x	4x	4x	✓	✓			
	Pro5-3G-GL-BT	Pro5 3G BLE		✓	✓			v5.1	1050 mAh	✓	Optional		1x	1x	2x	1x	✓	4x	4x	4x	✓	✓			
	Pro5-LTM-GL-BT	Pro5 4G Global BLE		✓		✓	✓	v5.1	1050 mAh	✓	Optional		1x	1x	2x	1x	✓	4x	4x	4x		✓			
	LCV5-2G-GL-BT	LCV5 2G BLE		✓				v5.1	1050 mAh	✓	Optional		2x	1x	2x	1x	✓	4x	4x	4x	✓	✓			
	LCV5-3G-GL-BT	LCV5 3G BLE		✓	✓			v5.1	1050 mAh	✓	Optional		2x	1x	2x	1x	✓	4x	4x	4x	✓	✓			
	LCV5-LTM-GL-BT	LCV5 4G Global BLE		✓		✓	✓	v5.1	1050 mAh	✓	Optional		2x	1x	2x	1x	✓	4x	4x	4x		✓			
	HCV5-2G-GL-BT	HCV5 2G BLE		✓				v5.1	1050 mAh	✓	Optional		2x	1x	2x	1x	✓	4x	4x	4x	✓	✓			
	HCV5-3G-GL-BT	HCV5 3G BLE		✓	✓			v5.1	1050 mAh	✓	Optional		2x	1x	2x	1x	✓	4x	4x	4x	✓	✓			
	HCV5-LTM-GL-BT	HCV5 4G Global BLE		✓		✓	✓	v5.1	1050 mAh	✓	Optional		2x	1x	2x	1x	✓	4x	4x	4x		✓			
Eco4 T series	FM-Eco4 light T	FM-Eco4 light T		✓					—	✓							✓	4x	2x	2x					
	FM-Eco4 light+ T	FM-Eco4 light+ T		✓					190 mAh	✓							✓	4x	2x	2x					
	FM-Eco4+ T	FM-Eco4+ T		✓					190 mAh	✓		IP67					✓	4x	2x	2x					
	FM-Eco4+ E T	FM-Eco4+ E T		✓					190 mAh		✓	IP67					✓	4x	2x	2x					
	FM-Eco4 light+ 3G T	FM-Eco4 light+ 3G T		✓	✓				190 mAh	✓							✓	4x	2x	2x					
	FM-Eco4+ 3G T	FM-Eco4+ 3G T		✓	✓				190 mAh	✓		IP67					✓	4x	2x	2x					
	FM-Eco4+ 3G E T	FM-Eco4+ 3G E T		✓	✓				190 mAh		✓	IP67					✓	4x	2x	2x					
	FM-Eco4 light+ RS T	FM-Eco4 light+ RS T		✓					190 mAh	✓					1x		✓	3x	2x	1x					
	FM-Eco4+ E RS T	FM-Eco4+ E RS T		✓					190 mAh		✓	IP67			1x		✓	3x	2x	1x					
	FM-Eco4 light+ 3G RS T	FM-Eco4 light+ 3G RS T		✓	✓				190 mAh	✓					1x		✓	3x	2x	1x					
	FM-Eco4+ 3G E RS T	FM-Eco4+ 3G E RS T		✓	✓				190 mAh		✓	IP67			1x		✓	3x	2x	1x					
	Plug4	FM-Plug4	FM-Plug4-001Q		✓					—	✓														
FM-Plug4+		FM-Plug4Plus-001Q		✓					190 mAh	✓			1x	1x											

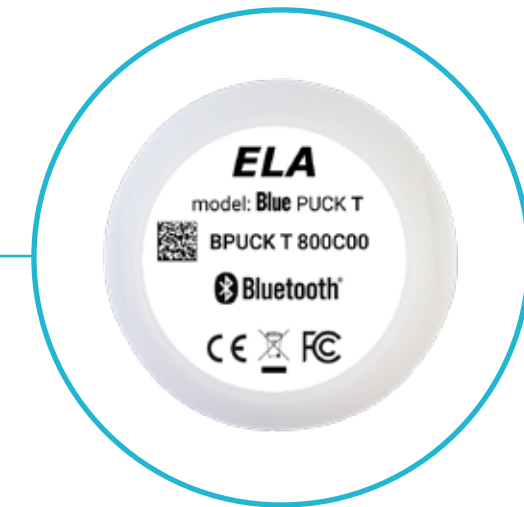
Bluetooth sensors for wireless solutions

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

Wired Accessories



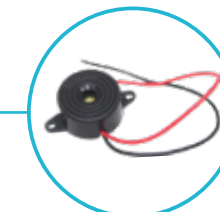
Driver behavior monitoring

Eco-drive panel



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



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

Ruptela PRO and ECO FLS



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 $\pm 0.5^{\circ}\text{C}$ in a temperature range from -40°C to $+120^{\circ}\text{C}$. 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 real-time, collects the data, and sends it to a tracking device.

EasyCAN

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

Ibutton readers/
Identification key



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.

Safety and security

Fatigue sensor



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 on-demand 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.

Indoor 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.

Dräger Alcohol Sensor/
Alcohol sensor
(RS232 protocol)



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 sensor



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 button



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.

Ignition
blocking relay



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



The handheld transceiver is designed for maintaining voice communication between the driver and the manager. The device does not require an additional SIM card and is simply plugged into the GPS device.

External GNSS
antenna



External GNSS 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.

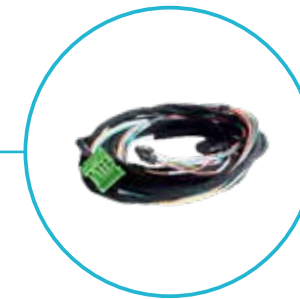
Harnesse

Ensure up to 50% shorter installation time for most popular installation cases and reduced installation mistakes probability.

- **Faster and easier installation**
- **Professional installation**
- **Minimize the risk of faulty installations**



FMS harness



FMS harness is used to install Pro5 and HCV5 trackers to trucks. CANbus data is available using FMS harness.

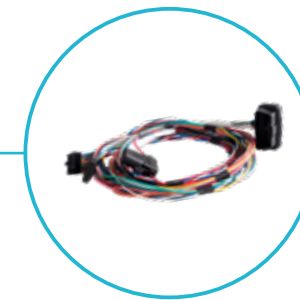
Tachograph data via FMS harness is available only for HCV5.

Tacho harness



Connect HCV5 to tachograph faster and easier with Tacho harness. Available for Siemens VDO and Stoneridge tachographs.

OBDII harness



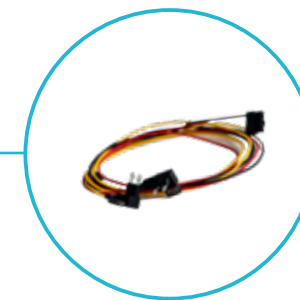
OBDII harness is used to install LCV5 or HCV5 trackers to light commercial vehicles. CANbus data reading is available using OBDII harness. Connection via OBDII can be used also as a power source.

OBDII Splitter harness



OBDII splitter harness is used to install LCV5 or HCV5 trackers to light commercial vehicles. The harness prevent tampering and accidental disconnection due to concealed installation. The wire replaces original OBD socket with special adapters.

Power harness



Power harness is used to install GPS trackers and connects via fuse box for increased safety. CANbus and tachograph data is not available using Power harness.

Power harness is available with ATO and MINI fuse types. It is also available with additional wires for accessories connection.

Accessories

compatibility matrix

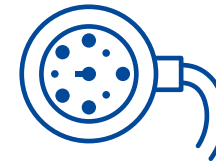
Solution	Main accessories	Ordering Code		HCV5	LCV5	Pro5	Pro4	Eco4+ ERST	Eco4light+ RST	Eco4+ (E)T	Eco4light+ T	Plug4
Fuel monitoring	Ruptela's Digital fuel level sensor	Pro_FLS		✓	✓	✓	✓	✓	✓	✓	✓	
	Ruptela's Analog fuel level sensor	Eco_FLS		✓	✓	✓	✓	✓	✓	✓	✓	
Fuel tank safety	Fuel tank cap	X00403		✓	✓	✓	✓	✓	✓	✓	✓	
Fatigue and distraction detection	Fatigue sensor	MR688		✓	✓	✓	✓	✓	✓			
Snapshot Camera	RS232 Camera Indoor	ZM-CAM30-OD		✓	✓	✓	✓					
	RS232 Camera Outdoor	ZM-CAM30-FST		✓	✓	✓	✓					
Alcohol detection	Alcohol sensor (RS232 protocol)	RS-588		✓	✓	✓	✓	✓	✓			
	Dräger alcohol sensor 5000	Draeger5000		✓	✓	✓	✓	✓	✓	✓	✓	
	Dräger alcohol sensor 7000	Draeger7000		✓	✓	✓	✓	✓	✓	✓	✓	
Temperature monitoring	1-Wire Temperature Sensor	Temp_01		✓	✓	✓	✓	✓	✓	✓	✓	
	Blue PUCK T (Longer range ELA temperature sensor)	X00974		✓	✓	✓						
Temperature & humidity monitoring	Bluetooth temperature and humidity data logger (Tzone temp. sensor)	TZ-BT04		✓	✓	✓						
	Blue PUCK RHT (Longer range ELA temperature & humidity sensor)	X00975		✓	✓	✓						
Driver identification	RFID Reader, 13.56 MHz	MF7-20		✓	✓	✓	✓	✓	✓			
	Omnikey USB Company Card Reader	CM3021B		✓	✓	✓	✓					
	1-wire RFID Reader 125 kHz	1W-H3-05		✓	✓	✓	✓	✓	✓	✓	✓	
	1-wire RFID Reader 13.56 MHz	1-wire rfid 13 MHz		✓	✓	✓	✓	✓	✓	✓	✓	
	iButton Key DS1990 with plastic holder	TM1990A		✓	✓	✓	✓	✓	✓	✓	✓	
	Dallas key ibutton reader	DS9092		✓	✓	✓	✓	✓	✓	✓	✓	
	Dallas key ibutton reader (with LED)	DS9092LEDR		✓	✓	✓	✓	✓	✓	✓	✓	
	D15N UFO Beacon (Bluetooth button)	D15N UFO		✓	✓	✓						
Vehicle blocking	Ignition Block Relay (12v)	Relay12V		✓	✓	✓	✓	✓	✓	✓	✓	
	Ignition Block Relay (24v)	Relay24V		✓	✓	✓	✓	✓	✓	✓	✓	
	Ignition blocking relay socket	RE-SOCK/C		✓	✓	✓	✓	✓	✓	✓	✓	
Alarm sound signal	Buzzer	BUZ01		✓	✓	✓	✓	✓	✓	✓	✓	
Panic button	Panic Button	KE/RO/BL-LED		✓	✓	✓	✓	✓	✓	✓	✓	
Door monitoring	Door sensor	ME8166		✓	✓	✓	✓	✓	✓	✓	✓	
Eco drive monitoring	Eco-Drive panel	Ecodrive01		✓	✓	✓	✓	✓	✓	✓	✓	
Two-way communication	Push-to-talk	PTT01		✓	✓	✓	✓					
EasyCAN	EasyCAN	391		✓	✓	✓	✓					
	EasyCAN (0.5m)	391_0,5M		✓	✓	✓	✓					
	EasyCAN Volvo	easycan01v		✓	✓	✓	✓					
External GPS antenna	External GPS antenna (1.5m)	B00002		✓	✓	✓						

Harnesses compatibility matrix

[illegible]

Easy-to-use

Our tracking devices are easy to install, configure and maintain.



Physical Installation

We recommend installing Ruptela tracking devices using the special installation harnesses. Five harness types make tracking device installation fast, easy and professional.

They are designed for the most popular installation scenarios and come in different lengths and modifications. Harness types: Power harness, FMS harness, Tacho harness, OBD2 harness, 9-Pin harness.

With these harnesses, there will be no need to cut wires in the vehicle, and the installation time will be shorter by up to 50%.

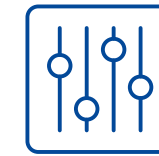


Documentation and support

Documentation for tracking devices and peripherals are available on our documentation platform doc.ruptela.it. Product datasheets, user manuals, firmware files, quick start guides, and other documents are available on doc.ruptela.it

Our technical support is always there to help with any questions you have. To reach our technical support, use the self-service portal my.ruptela.com or email us at support@ruptela.com. Technical support is available 24/5.

Visit www.youtube.com/ruptela for technical how-to videos.



Device Configuration

Device Center is a configurator tool for Ruptela tracking devices:

- Automatic updates for latest firmware and configuration versions.
- Interactive geozones.
- All interrelated settings and IO parameters turn on automatically.
- Application recommends the most optimal values for settings and parameters.
- Simple user interface with no unnecessary information and settings.
- Faster configuration process.
- Informational tooltips guide user along the way.
- Faster technician onboarding.
- Can Receive CANbus data (J1708, J1939).

Become Our Partner



All-in-One

We help our partners to achieve better business results and foster growth by providing a complete fleet management solution consisting of software, hardware, and superior customer support. That's why we can assure the highest quality of the product, allowing our partners to focus entirely on sales and greatly benefit from our knowledge and experience.



Close Partnership

We adapt to our partners' business models and culture, building trust with real examples of business practices. To make the partnership more substantial, we focus on long-term partnerships, continuously updating our services and support.



One Technology Provider

We develop and manufacture all products for fleet management and GPS tracking. By owning the whole value chain from production to after-sale, we take responsibility at every step and are proud to maintain a 99.9% quality rate of our developed GPS trackers.




Know-How

Our close work with end-users in our local markets allows us to identify their needs first hand and develop solutions that solve real, everyday problems. At the same time, by having this knowledge, we can better cooperate with the service providers by pointing out some of the critical features and details.



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