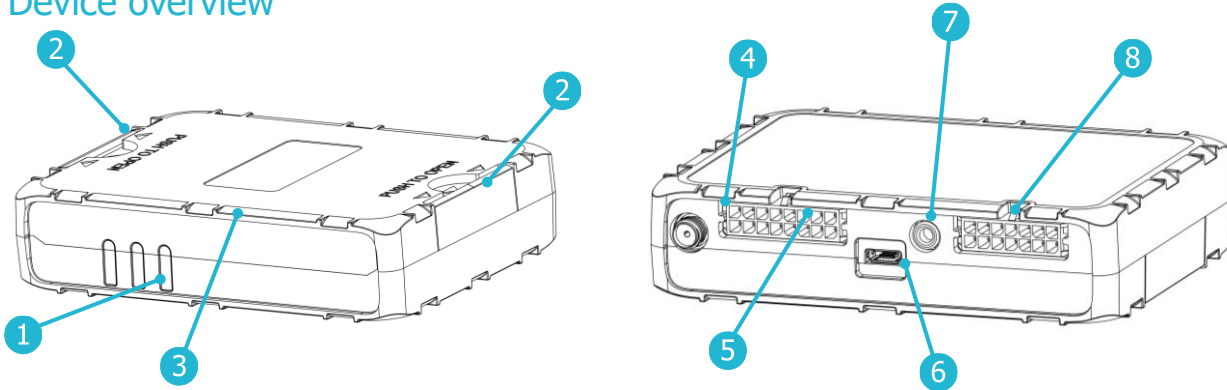


Make sure that you have:

- An OBD2 standard compatible vehicle
- A computer with Windows 7/8/10
- An internet connection (or a predownloaded [Device Center](#))
- A USB A to USB micro (Type B) cable
- An [OBD2 harness](#) (recommended)

Device overview



- 1 Indication LEDs
- 2 Opening handles
- 3 Grooves for zip-ties
- 4 GNSS antenna port
- 5 16 Pin port
- 6 Micro USB port
- 7 Audio port
- 8 14 Pin port

Indication LED patterns

LED	Pattern	Description
GNSS	Once every second	Accurate signal
	Once every 0.4 seconds	No signal
Cellular	Once every 4 seconds	Connected to network and internet
	Once every second	Connected to network, no internet
	Once every 0.2 seconds	No signal
	Always on	Link with the server is open
Peripherals	Always off	No devices connected
	Once every 5 seconds	One device connected
	Twice every 5 seconds	Two devices connected
	Three times every 5 seconds	Three devices connected
All	Once every 5 seconds	Sleep mode

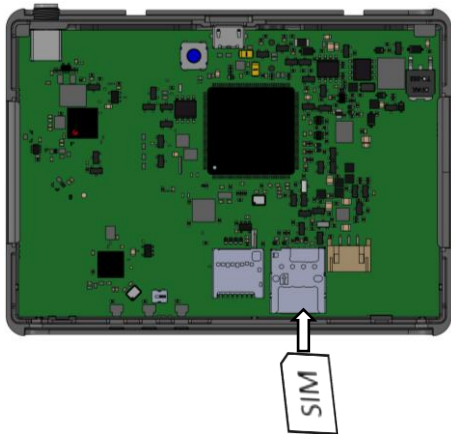
Device pinout

No.	Pin	Wire color	Description
1	+BAT	Red	Power supply (9-32 V)
2	DOUT1	Purple	Digital output 1
3	1W Data	Green/Yellow	1-Wire data
4	DIN3	Pink	Digital input 3
5	DIN4	Yellow	Digital input 4
6	CAN2-L	Blue	CAN Low
7	K-Line	Brown	K-Line
8	GND	Black	Ground
9	DOUT2	Orange	Digital output 2
10	1W+5V	Red/Yellow	1-Wire power
11	AIN2	Green	Analogue input 2
12	AIN1	Grey	Analogue input 1
13	CAN2-H	White	CAN High
14	SW CAN	Green/White	Single-Wire CAN

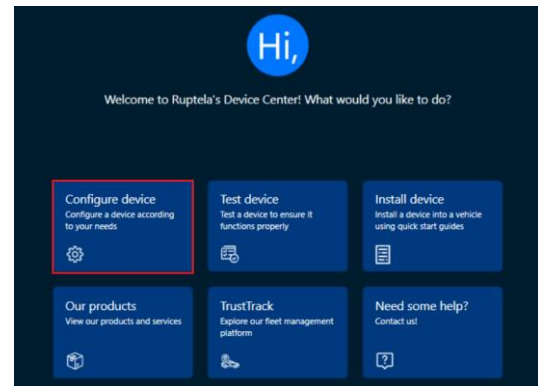
No.	Pin	Wire color	Description
1	PortC-485 A	White/Brown	RS485 line A
2	PortA-RS232 TX	Green/Brown	PortA RS232 TX
3	PortB-RS232 TX	Pink/Green	PortB RS232 TX
4	DIN1	Yellow/Black	Digital input 1
5	DIN2	Pink/Black	Digital input 2
6	AIN4	White/Green	Analogue input 4
7	CAN1-L	Blue/Red	CAN Low
8	GND	Black	Ground
9	PortC-485 B	Yellow/Brown	RS485 line B
10	PortA-RS232 RX	Blue/Yellow	PortA RS232 RX
11	PortB-RS232 RX	Red/Cyan	PortB RS232 RX
12	DOUT3	White/Purple	Digital output 3
13	DOUT4	White/Orange	Digital output 4
14	AIN3	White/Grey	Analogue input 3
15	CAN1-H	White/Red	CAN High
16	1W+5V	Red/ Yellow	1-Wire power

Configuration

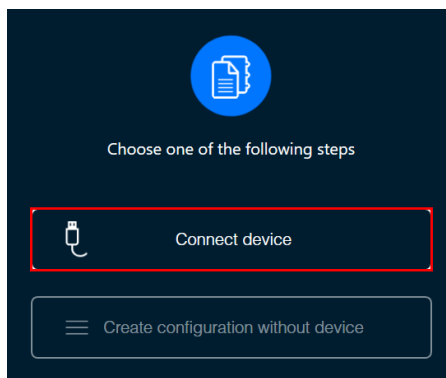
- 1 Insert your SIM card into the device.



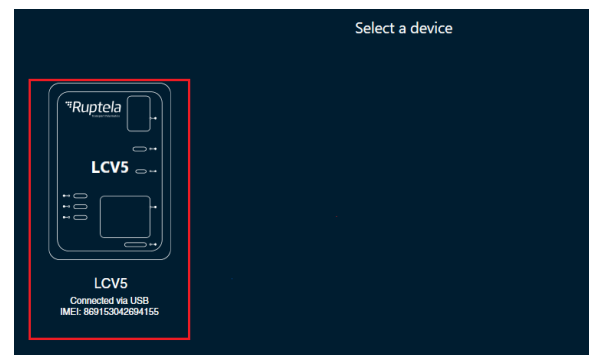
- 2 Download and launch the [Device Center](#). Install device drivers if prompted. Click **Configure device** in the main menu.



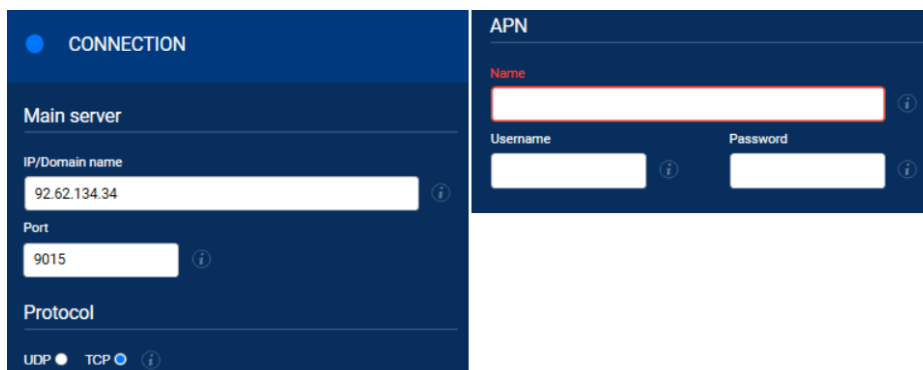
- 3 Connect the device to your computer using a USB cable. Click **Connect device**.



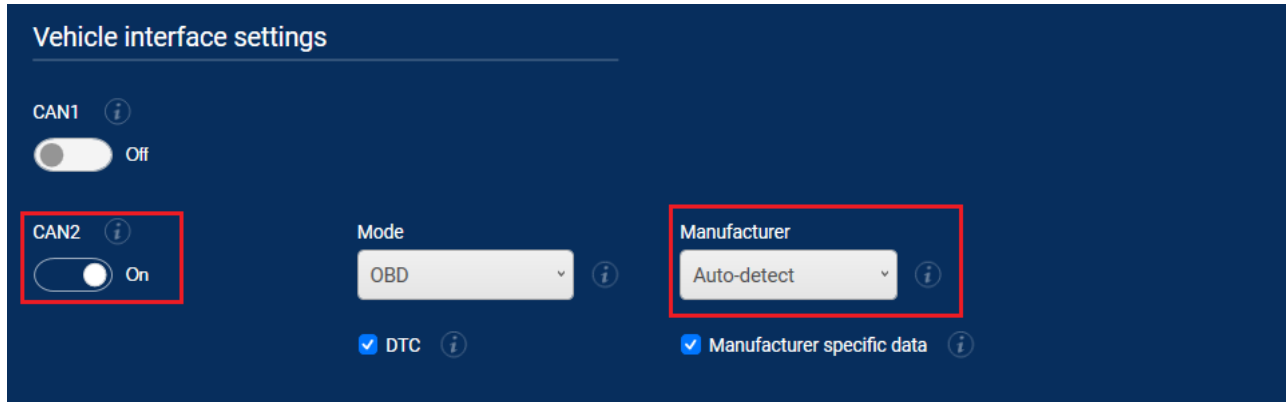
- 4 Select your device.



- 5 Open the **Connection** settings. Configure Fleet Management System **Main Server** settings (TrustTrack server settings are entered by default). Configure GSM provider **APN** settings.



- 6 Open **Peripherals and interfaces**.
Turn on the **CAN2** interface in **Vehicle interface settings**.
Select your vehicle **Manufacturer** (*Auto-detect* is selected by default, may not work with all models).
All other needed settings are enabled by default.
Note: If you are using our standard OBD2 harness, then **CAN1** should be configured.



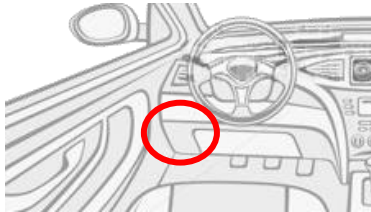
- 7 Click **Save to device** to upload the config to the device.



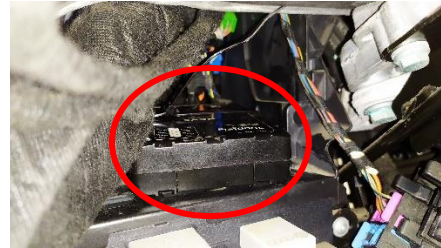
Installation

For faster and easier installation, it is highly recommended to use the [OBD2 harness](#).

- 1 Locate the OBD port in your vehicle. It is usually located on the driver side underneath a panel, as shown in the image below.



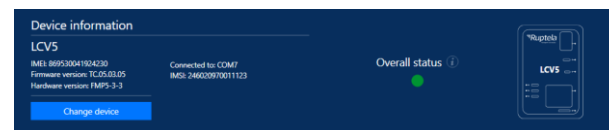
- 2 Install the device in the vehicle using zip-ties. **Make sure it is secured tightly.** Connect the device using the OBD2 harness (**recommended**). Alternatively, connect the device according to the wiring diagram on Page 6.



- 3 Install the GNSS antenna facing towards the sky. Follow the recommendations:
 - Install behind the dashboard
 - Install as close to the window as possible
 - Avoid installing near metal surfaces



- 4 Turn on the ignition. Test your device using the Device Center installation assistant tool. If the Overall status is green, then the device is properly installed. If the status is red, click the **Troubleshoot** button for troubleshooting.

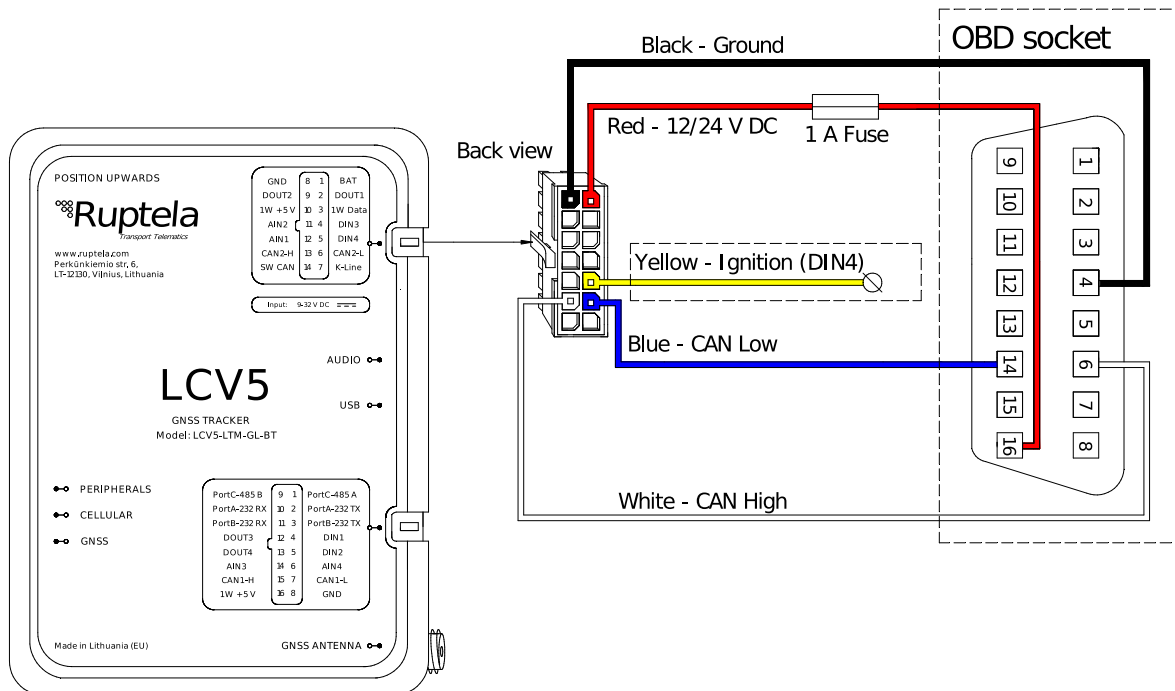


- 5 Check what parameters are received by clicking **Details** in the **CAN/K-Line Interfaces** section.

IO Parameter	Value
OBD RPM	1771 RPM
OBD vehicle speed	95 km/h
OBD engine coolant temperature	56 °C
OBD ambient air temperature	-6 °C
OBD fuel level	80 %
OBD fuel type	1
OBD engine fuel rate	5.2 l/h
OBD actual engine percent torque	24 %
OBD distance traveled while MIL is activated	0 km
OBD accelerator pedal position	38 %
OBD VIN	0x5646314D41303030

Wiring diagram

- Power input: 12/24 V DC



Supported OBD2 parameters list

- Vehicle RPM
- Vehicle speed sensor, km/h
- Fuel level, l
- Fuel level, %
- VIN code
- Odometer, km
- Engine coolant temperature, °C
- Ambient air temperature, °C
- Type of fuel
- Relative accelerator pedal position, %
- Time since engine start, s
- Engine fuel rate, l/h
- Actual engine – percent torque, %
- Distance travelled while MIL is activated
- Electric vehicle battery level, %
- Electric vehicle remaining distance, km



The received data depends on the vehicle manufacturer, model and in some cases even the engine. Consult our [OBD2 supported vehicles list](#) for more details.

Further reading

- Documentation website: <https://doc.ruptela.lt/>
- List of supported OBD2 vehicles: <https://doc.ruptela.lt/display/AB/OBD>
- Datasheet and user manual: <https://doc.ruptela.lt/pages/viewpage.action?pageId=37683334>
- Device Center: <https://doc.ruptela.lt/display/AB/Device+Center>

We highly recommend you read the user manual before using the device.

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