

Make sure that you have:

- A computer with Windows 7/8/10
- An internet connection (or a predownloaded [configurator pack](#))
- A USB A to USB mini cable
- Tools for installation and wire connection: a "+" type screwdriver, a panel removing tool, a wrench, a crimp terminal, zip-ties (or double-sided tape)

Device overview



1 12 Pin cable

2 GNSS antenna cable (FM-Eco4+ E S only)

3 Indication LEDs

Indication LED patterns

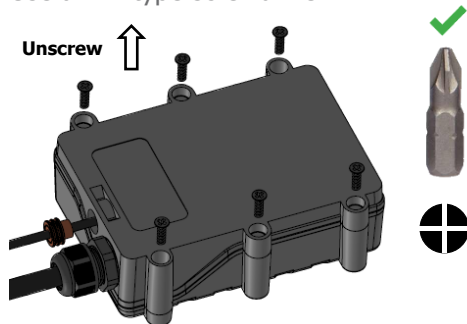
LED	Pattern	Description
GNSS	Once every second	Accurate signal
	Once every 0.4 seconds	No signal
GSM	Once every 4 seconds	Accurate signal
	Once every 0.2 seconds	No signal
	Always on	Link with the server is open
1-Wire	Always off	No devices connected
	Once every 5 seconds	One device connected
	Twice every 5 seconds	Two devices connected
	Three times every 5 seconds	Three devices connected
All	Once every 5 seconds	Sleep/deep sleep mode

Device pinout

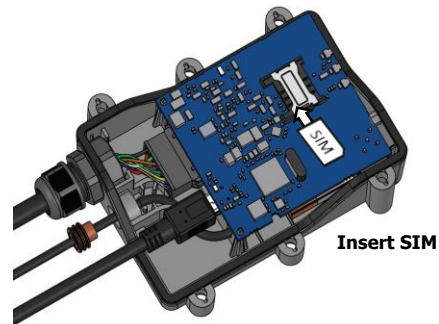
Pin	Wire color	Description
+BAT	Red	Power supply 6/12/24V
GND	Black	Ground connection
DIN1	Pink	Digital input 1
DIN2	Blue	Digital input 2
DIN3	White	Digital input 3
DIN4	Yellow	Digital input 4
AIN1	Grey	Analog input 1
AIN2	Green	Analog input 2
DOUT1	Purple	Digital output 1
DOUT2	Orange	Digital output 2
1-Wire PWR	White/Red	1-Wire power
1-Wire DATA	Green/Yellow	1-Wire data

Configuration

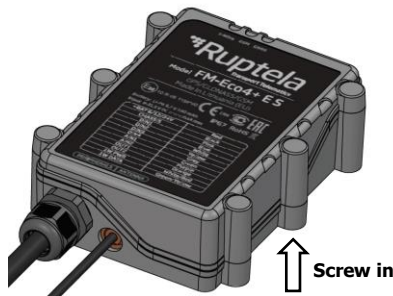
- 1 Unscrew the 6 screws.
Use a "+" type screwdriver.



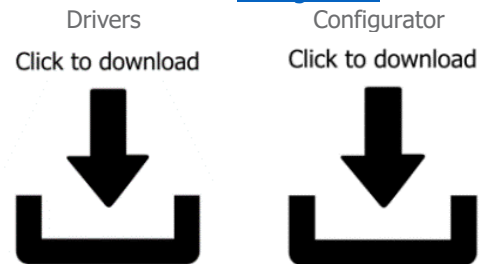
- 2 Insert your SIM card.



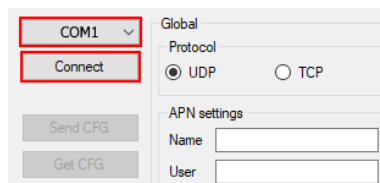
- 3 Put on the top on and screw in the screws.



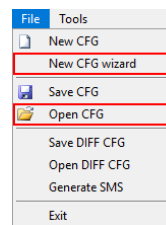
- 4 Download and install the latest [VCOM drivers](#).
Download the device [configurator](#).



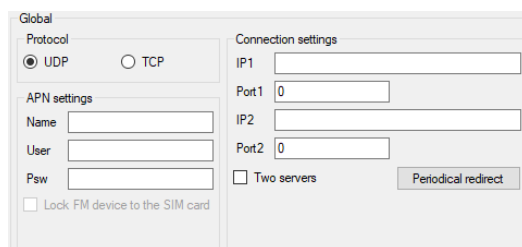
- 5 Connect the device to your computer using a USB cable.
Start the configurator.
Select the port you connected your device to.
Click **Connect** in the configurator.



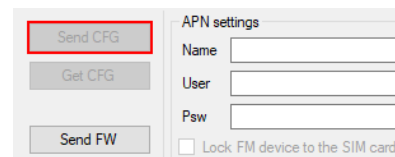
- 6 Download the [sample config file](#).
Click **File** -> **Open CFG** to load the config file.
Or use **New CFG wizard** to create a new config.



- 7 Configure GSM provider **APN** settings.
Configure Fleet Management System **Connection** settings.



- 8 Click **Send CFG** to upload the config to the device.



Installation

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

- 1 Install the device directed upwards.
Follow the recommendations:
 - Tilt up to 45 degrees in any axis
 - Install behind the dashboard
 - Install as close to the window as possible
 - Avoid installing near metal surfaces

Fasten the device in the vehicle using zip-ties or double-sided tape.

Make sure it is secured tightly.

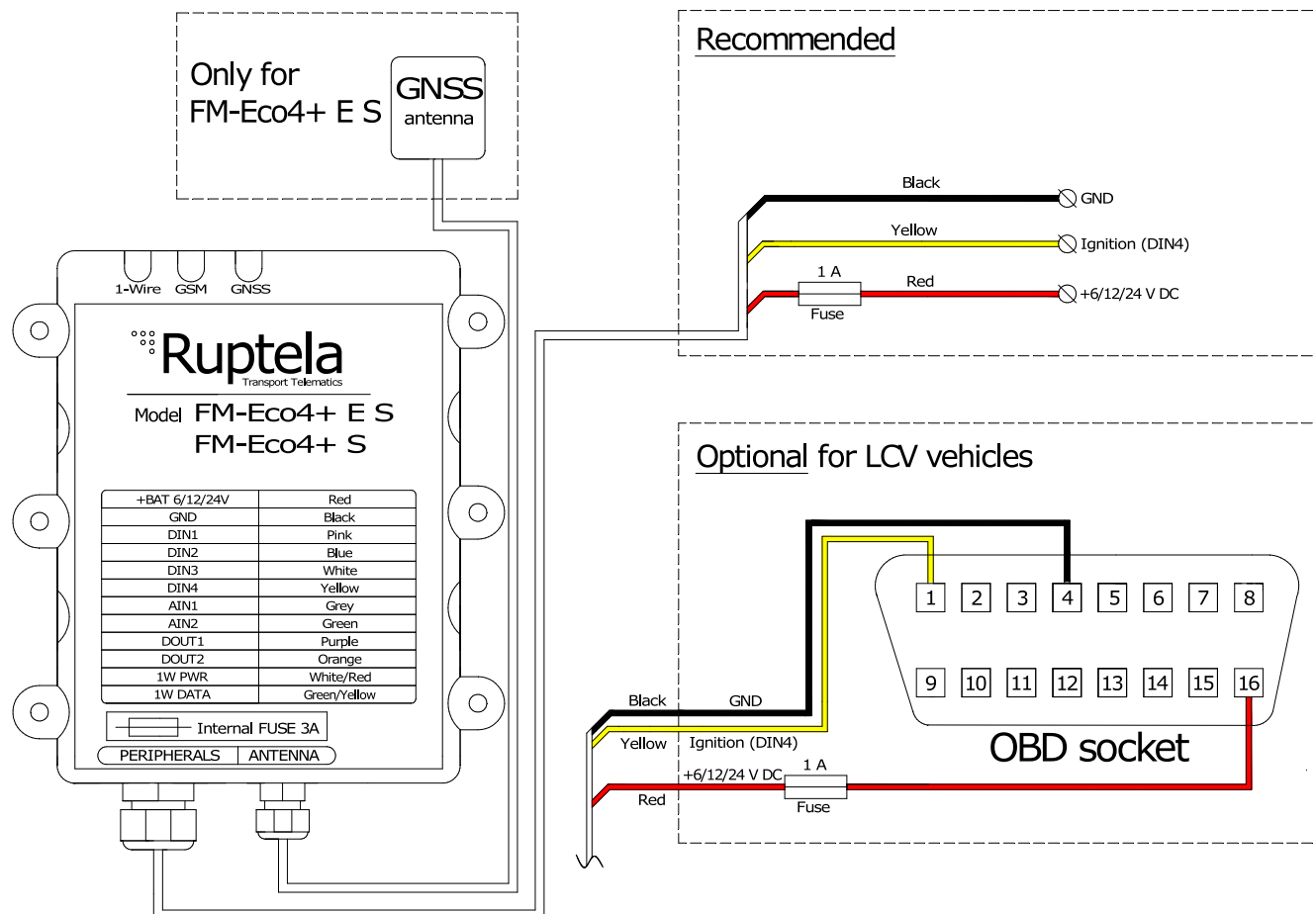
- 2 Install the GNSS antenna directed upwards. (FM-Eco4+ E S only)



- 3 Connect the device according to the wiring diagram (**on Page 4**).
Turn on the ignition.
Check that the required data is received before finishing the installation.

Wiring diagram

- Power input 6/12/24 V DC
- Recommended protection fuse 1 A



Further reading

- Documentation website: <http://doc.ruptela.com>
- Datasheet: <https://doc.ruptela.lt/pages/viewpage.action?pageId=2129929>
- User manual: <https://doc.ruptela.lt/pages/viewpage.action?pageId=2129929>
- Windows drivers: <https://doc.ruptela.lt/display/AB/FM4+drivers>
- Configurator tool: <https://doc.ruptela.lt/pages/viewpage.action?pageId=2129925>
- Power harness Datasheet and Quick Start guide: <https://doc.ruptela.lt/display/AB/Harnesses>
- Installation using Fuse Tap Harness: https://www.youtube.com/watch?v=G_-tcJmsOVI

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

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