

# RFID Reader Connection

## 1 Introduction

### 1.1 About the Functionality

The RFID reader is a small card-reader that enables the identification of the driver. It shows who is using the vehicle, at what time, and who is in charge of it. In case any discrepancies arise during the identification process, it is possible to block the vehicle's engine and notify the driver by an audio signal. The device is easy-to-implement, and it is possible to use the same security passes you already use in your company.

This feature description applies to tracking devices with the latest firmware version.

You can get the newest firmware and configurator from our documentation website: [doc.ruptela.it](http://doc.ruptela.it)

### 1.2 Legal Information

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### 1.3 Compatibility

The RFID reader is compatible with the following devices with the newest firmware version:

- HCV5
- LCV5
- Pro5
- FM-Tco4 HCV
- FM-Tco4 LCV
- FM-Pro4
- FM-Eco4 RS T

## 1.4 Contact Information

### General enquiries

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## 1.5 Document Changelog

Version	Date	Modification
<b>1.0</b>	2015-09-15	Initial draft.
<b>1.1</b>	2015-11-18	Updated: Technical specifications.
<b>2.0</b>	2020-04-20	Updated: Connection schematics. Updated: Configuration of RFID reader.
<b>2.1</b>	2020-07-16	Updated: Compatible devices list. Updated: Connection schematics.
<b>2.2</b>	2020-08-05	Updated: Compatible devices list. Updated: Connection schematics.

## 1.6 Notations

The following notations are used in this document to highlight important information:

### **Bold text**

Used to indicate user interface elements or for emphasis.

### *Italic text*

Used to indicate items that belong to a list and can be selected.

### **Note**



Used to highlight important information or special conditions.

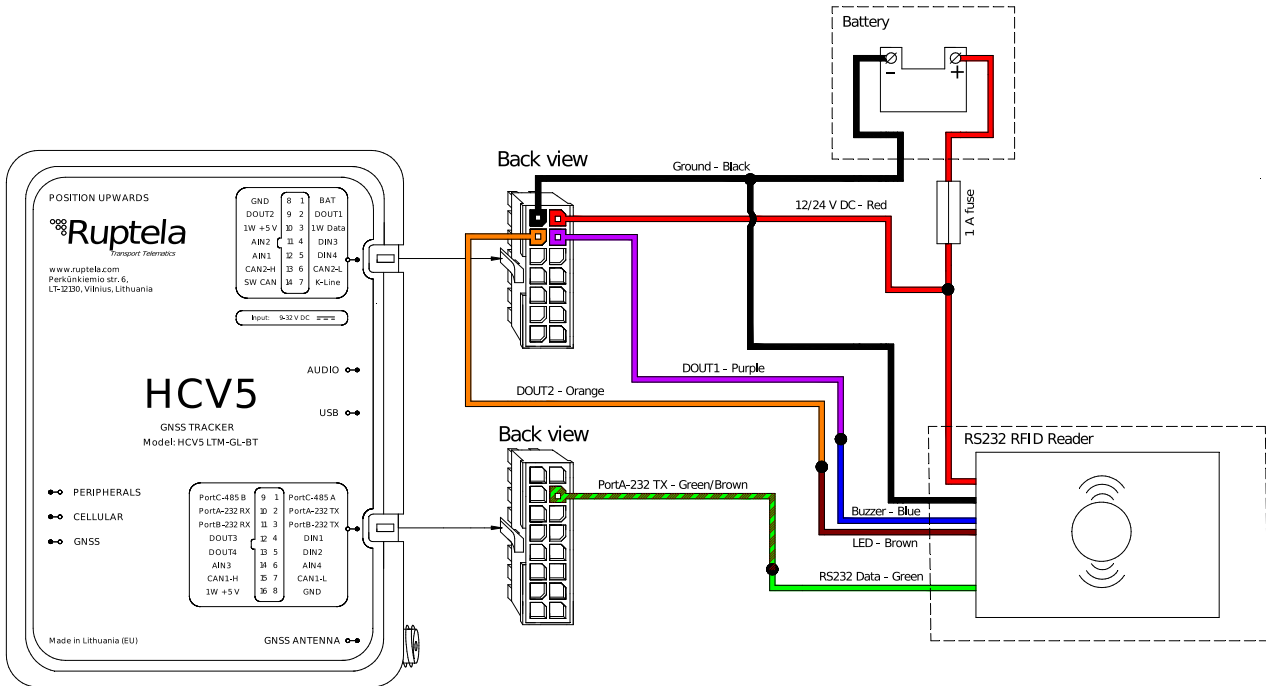
## 1.7 References

Datasheet: [RS232 RFID Reader](#)

## 2 Connection

### 2.1 Connection to 5<sup>th</sup> Gen Advanced Family Devices

Connect the RFID reader to your tracking device as follows (Port A is used in this schematic):

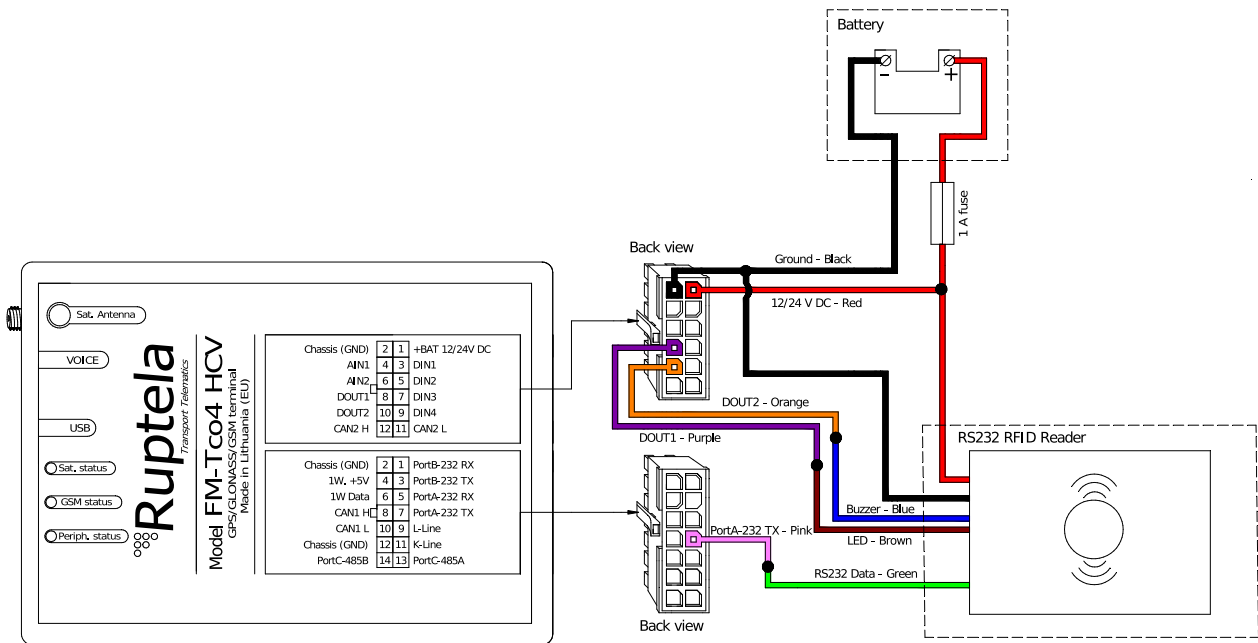


Alternatively, RS232 data wire can be connected to Port B (16 pin connector, pin 3, pink/green wire).

Brown and blue wires can be connected to any of the four DOUTs.

## 2.2 Connection to 4<sup>th</sup> Gen Advanced Family Devices

Connect the RFID reader to your tracking device as follows (Port A is used in this schematic):

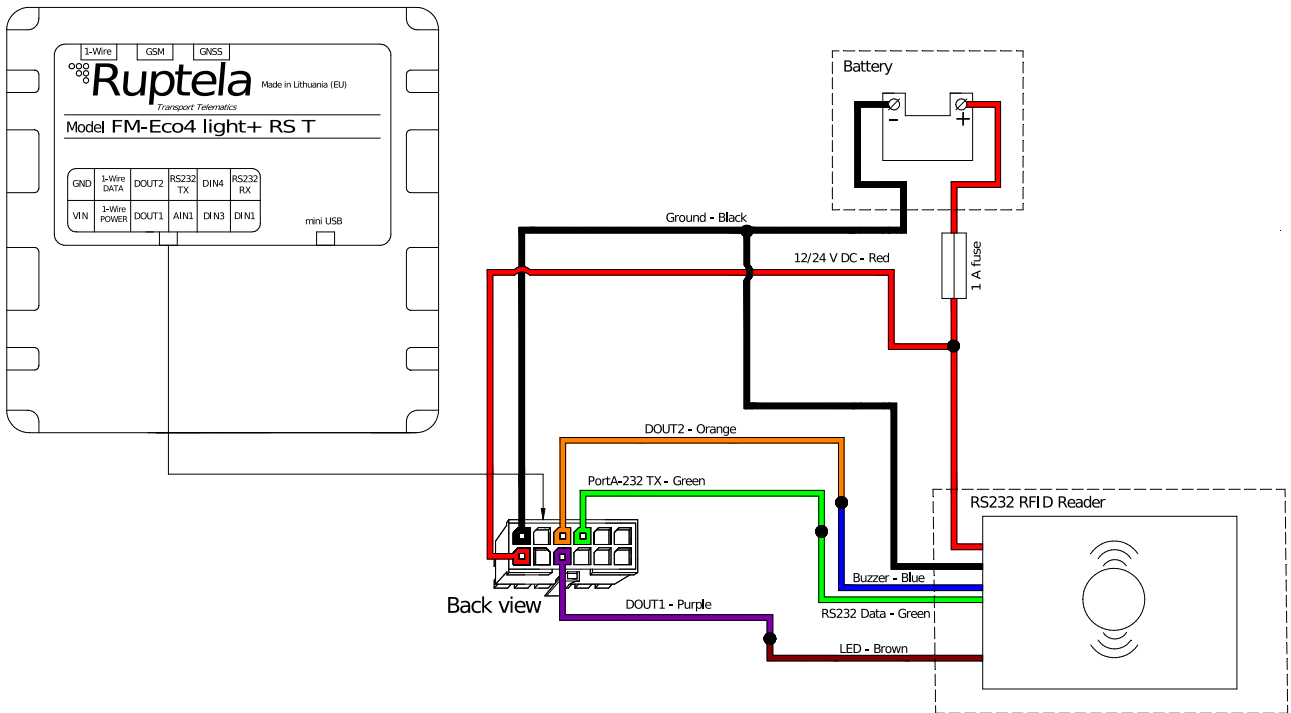


Alternatively, RS232 data wire can be connected to Port B (14 pin connector, pin 3, orange wire).

Brown and blue wires can be connected either to DOUT1 or DOUT2.

## 2.3 Connection to FM-Eco4 RS T Device

Connect the RFID reader to your tracking device as follows:



Brown and blue wires can be connected either to DOUT1 or DOUT2.

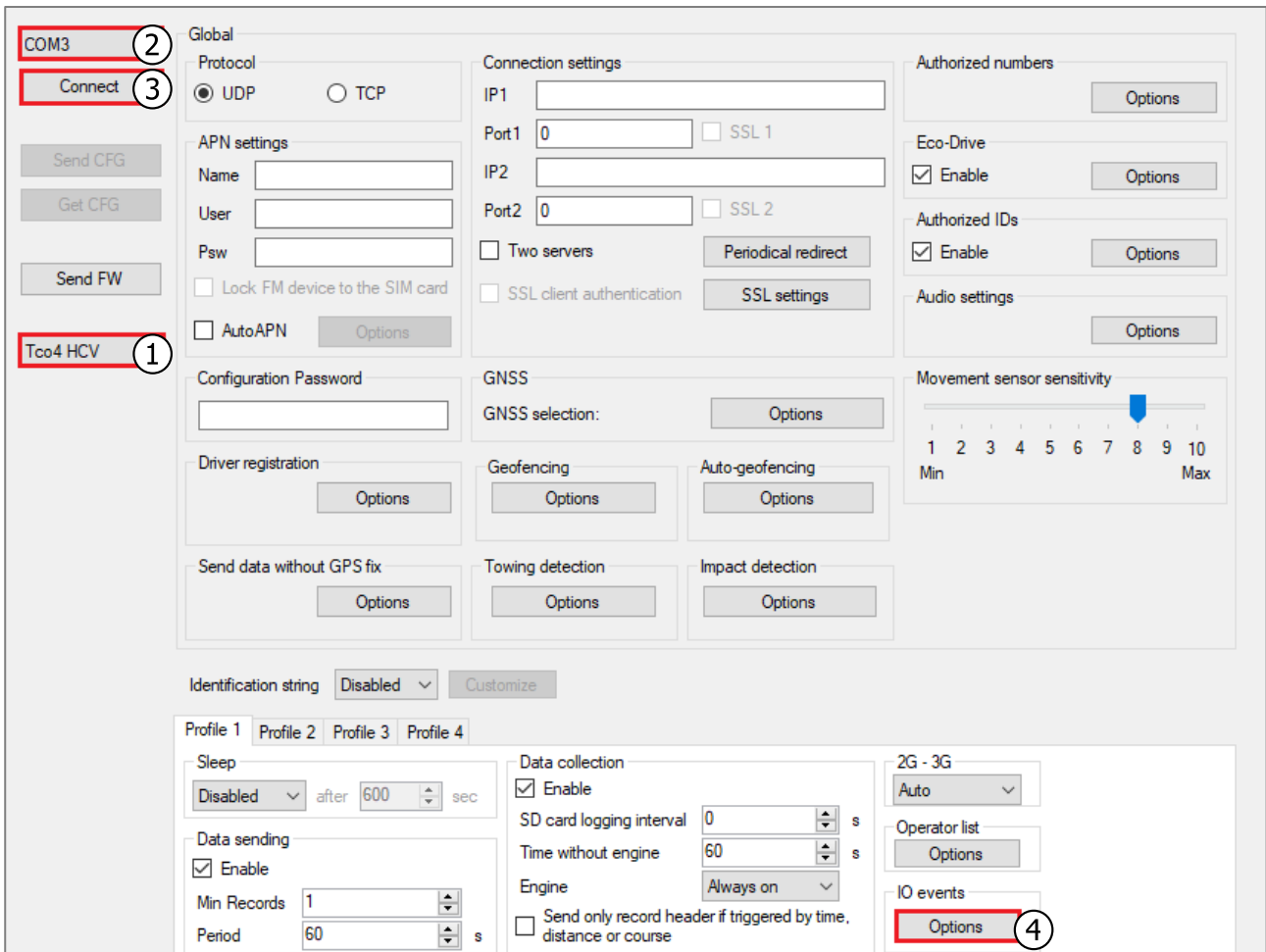
# 3 Configuration

**i** This functionality requires the use of the advanced configurator.

## 3.1 Starting the Configuration

To start the configuration, follow these steps:

1. Open the advanced configurator. Select your FM device.
2. Select the COM port to which your device is connected.
3. Click **Connect**.
4. Click the **Options** button in the **IO events** section to open the **IO Settings** window.



## 3.2 Configuring the RFID Reader

Follow these steps to configure the RFID reader:

1. Select an empty parameter slot.
2. Enable the slot by ticking **Enable**.
3. In the **ID** section select *RFID PortA* or *RFID PortB* from the drop-down list (according to the physical connection).
4. Set **Event on** to *Change*.
5. In the **Interfaces** section select the port, to which the RFID Reader is connected (*PortA* or *PortB*).
6. Select *RFID reader* from the drop-down list.
7. Click **Config** to open the **Select Baudrate** window.
8. Select the appropriate baud rate from the drop-down list.



The default baud rate is 9600. If you are not using our standard RFID reader, refer to the manufacturer's datasheet for the required baud rate.

The screenshot shows the 'IO settings' window with the following configurations:

- IO properties:**
  - Slot: 1 : RFID PortA (1)
  - Enable:  (2)
  - ID: RFID PortA (3)
  - Level: 0
  - Delta: 0
  - Average: 0 ms
  - Event on: Change (4)
  - Include data only on event:
  - Priority: Low
  - Switch to: No Switch
- Interfaces:**
  - PortA:  (5)
  - RFID reader (6)
  - Config (7)
- Select Baudrate dialog:**
  - 9600 (8)
  - Close button

### 3.3 Finishing the Configuration

To finish the configuration, close the **Select Baudrate** and **IO settings** windows. Click **Send CFG** to send the configuration to the device.

