

Configuring a TRX-1500 Traffic Sensor to work with an ICflyAHRsII

Get the TRX-TOOL and possibly driver for your operating system from the manufactures website.

Connect the Mini USB of your TRX-1500 to your PC and install possibly needed drivers.

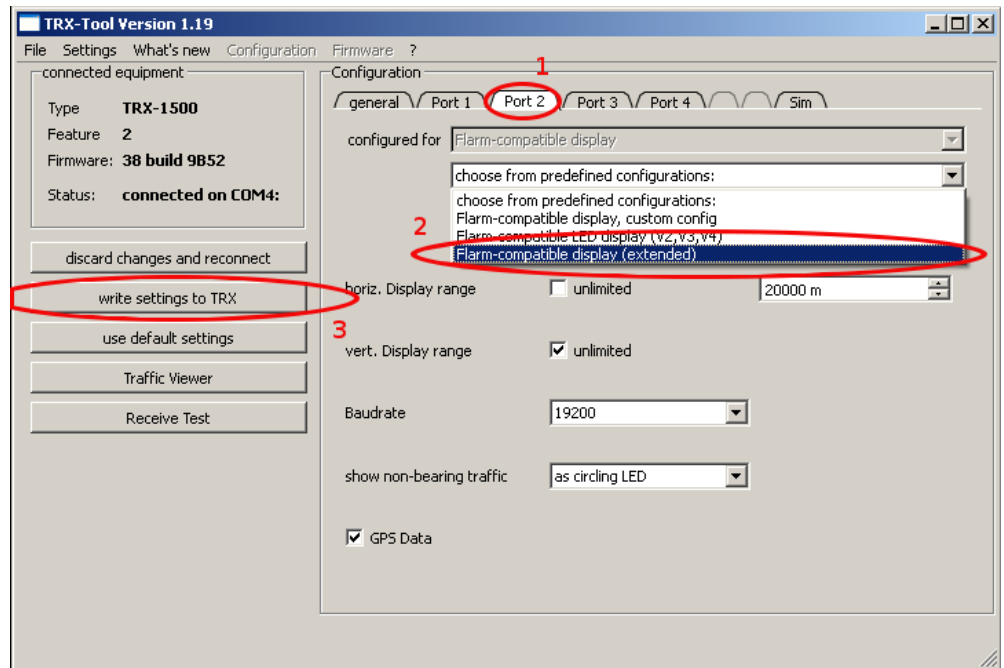
Start the configuration utility TRX-TOOL.

- It should connect to your TRX-1500 and after a short time enable the controls.

1. Navigate to the Port 2 configuration tab

2. Select “Flarm-compatible display (extended)” from the dropdown list

3. Write the settings into the TRX



The TRX-1500 will now transmit traffic and GPS information on port 2 with 19200 baud.

Connect the TRX-1500 to the ICflyAHRsII as shown in the drawing on the right from the ICflyAHRsII datasheet.

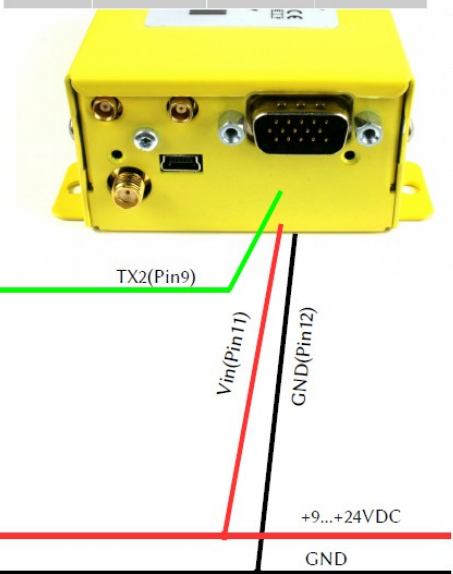
Pin ICflyII	Function ICflyII	Pin TRX1500	Function TRX1500
4	RX1	9	TX2
11	Vin1	11	Vin
2, 12	GND, Vin2	12	GND

On page 2 of this Document a procedure to test the communication setup is described.

Extended configuration for the FLARM collision avoidance system is available on the 'general' tab. Refer to the documentation for the TRX-TOOL.



Pin	Function ICflyII
1	+3V3
2	GND
3	GPIO 0
4	RX1
5	TX1
6	+3V3
7	GND
8	PWR/SW Button
9	RX2
10	TX2
11	Vin1
12	Vin2
13	Vusb
14	D-
15	D+



Note: TRX1500 Baudrate=19200,8,N,1

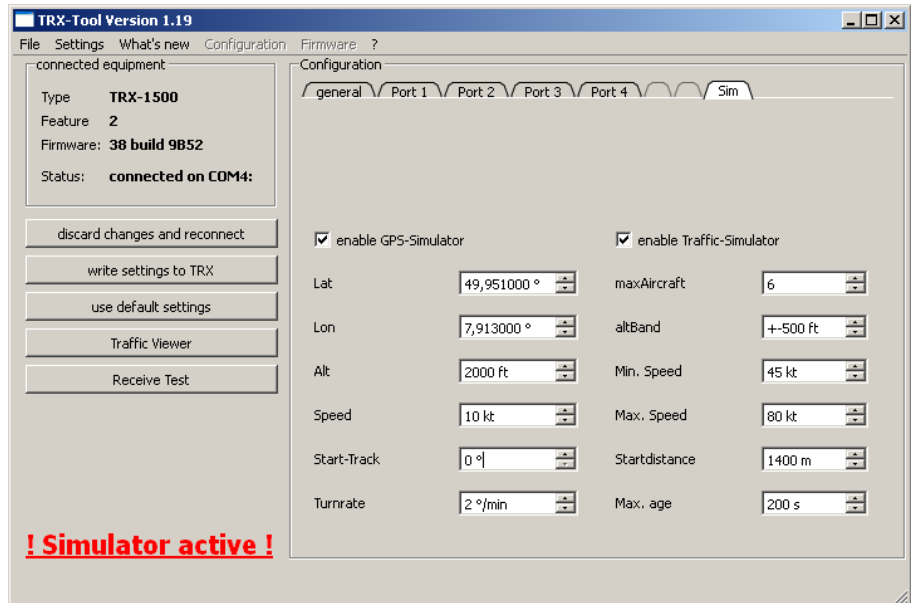
Testing the communication setup between a TRX-1500 Traffic Sensor and an ICflyAHRsII

You can test communication setup between an ICflyII and a TRX-1500 Traffic Sensor by using the simulation mode available on the TRX-1500.

Connect the TRX-1500 to your PC and start the TRX-TOOL as described on page 1 of this document.

Navigate to the Sim tab, choose settings as shown to the right, then write them to the TRX.

- enable GPS simulation
- enable Traffic simulation



After disconnecting USB from the TRX-1500, it starts generating simulated data which you can observe in e.g. the Sky-Map app if everything is set up properly:

- TRX-1500 port 2 set to extended traffic display
- TRX-1500 pin tx2 connected to ICflyAHRsII pin rx1
- ICflyAHRsII serial 1 set to 19200 baud and read data for WLAN enabled
- Sky-Map set to display traffic data and receive GPS data from wireless connection

Sky-Map should display the data similar to the picture to the right

- our aircraft slowly turning
- other aircraft as symbols on the map
- collision warnings as a box on the lower left

