RFXtrxLAN

www.rfxcom.com

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1. Introduction

The RFXtrxLAN can have the RFXtrx433XL or RFXtrx868XL transceiver installed.
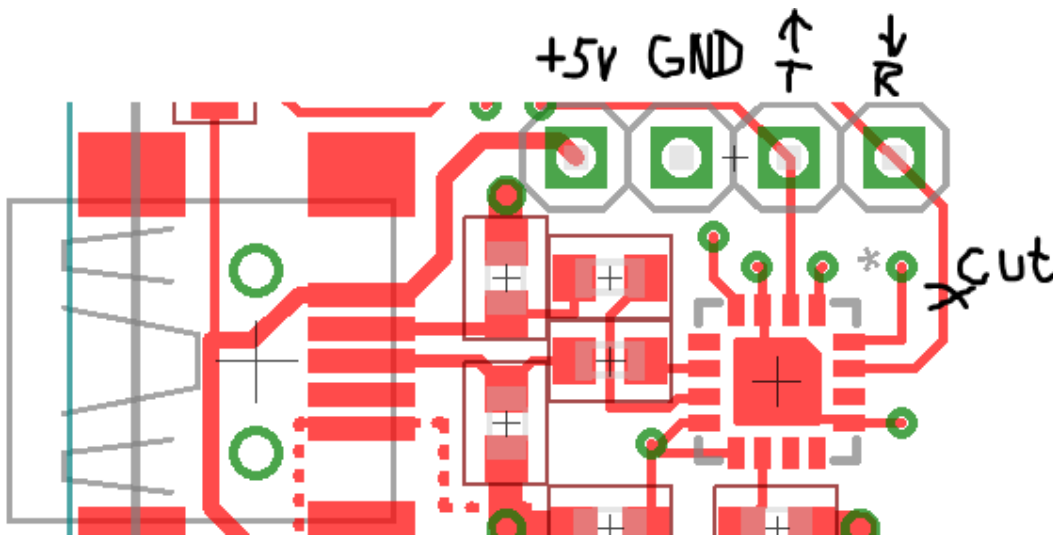The transceiver can be accessed over LAN.
The default settings are:
- TCP port 10001 and DHCP
- Username/Password: admin admin

2. Install the RFXtrx433XL or RFXtrx868XL in the RFXtrxLAN.

Important:
First thing to do is cut the PCB trace between the connection point R and the FT230X pin 15.

With a PTF (PressToFit) connector in the RFXtrxLAN:
- Press the RFXtrx on the PTF with the antenna connector upwards.

With a solder header in the RFXtrxLAN:
- Solder the RFXtrx on the header with the antenna connector upwards.

3. Installation of the RFXtrxLAN

Connect the antenna.
Connect the 5V/1Amp DC power supply and the Ethernet cable.
The red LED of the RFXtrx should be on for about 3 seconds followed by a short blink of the green/yellow LED. And the right LED on the Ethernet connector should blink and the left LED should be on.

Note: Do not locate the RFXtrxLAN close to metal objects, electronic equipment or power lines.

4. LAN version

4.1. Configure the LAN controller

The RFXtrxLAN is delivered with DHCP.
To find the IP address of the RFXtrxLAN use for example the free NetScan tool
https://www.netscantools.com

Use a browser to configure the LAN-controller and enter the IP address of the RFXtrxLAN, for example: http://192.168.1.237 or use the Host Name http://rfxtrxlan

Default Username / Password: admin admin

Set a fixed IP address for normal use. (select DHCP OFF)
If multiple RFXtrxLAN devices are in use set the Host Name unique.

Advice: If you change the Username/Password write it down on a label inside the RFXtrxLAN

4.2. Configure the Serial Port

The COM port is delivered with the correct settings.

Serial Port Settings
change the device serial port settings

Basic Settings

Baud Rate	38400
Data Bit	8
Stop Bit	1
Parity	None

Buffer Settings

Buffer Size	512
Gap Time	50

Flow Control Settings

Flow Control	Disable

Cli Settings

Cli	Disable

Protocol Settings

Protocol	None

4.3. Configure the TCP communication

The RFXtrxLAN is delivered with the correct configured TCP Server with port 10001
You can change the Local Port and Max Accept if required.
Set Max Accept to 1 unless you want to connect the RFXtrxLAN with multiple applications

5. WiFi version

5.1. Configure the WiFi module

For the first time you connect the RFXtrxLAN using a laptop.
Power the RFXtrxLAN and connect the WiFi network with SSID HF-A11x_AP
When the wireless connection is OK, open a web browser and access http://10.10.100.254
Connect with username / password: admin / admin

5.2. Set STA (station) mode

5.3. Configure the STA settings

Configure the AP to be used, click on Search and select your WiFi network.
Set the fixed IP address for the TCP server, for example
192.168.1.100
255.255.255.0
192.168.1.255
8.8.8.8

5.4.   Configure the UART.

Select 38400,8, None, 1, Disable
Set MAX TCP num to 1 unless you want to connect the RFXtrxLAN with multiple applications.

6. Restore factory settings

To restore the module to factory settings, press the reload button for at least 3 seconds.

7. Configure the transceiver

The transceiver can be tested and configured with the RFXmngr program.
Set the IP address of the RFXtrxLAN or use the Host Name.
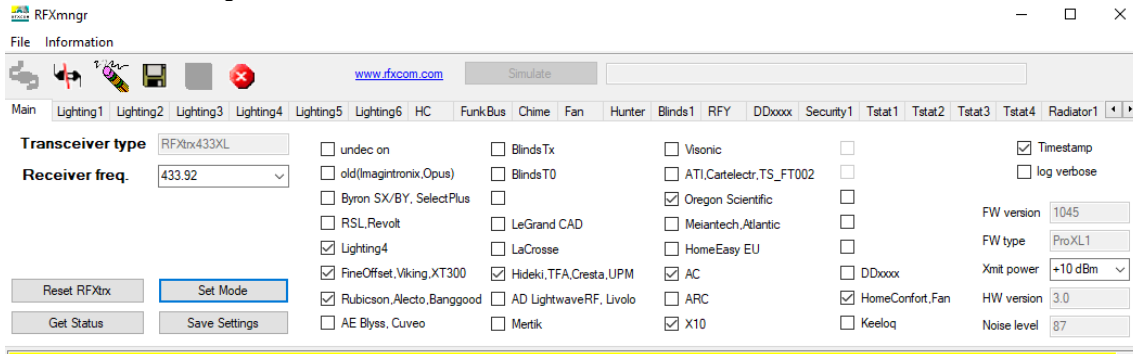Connect port 10001:
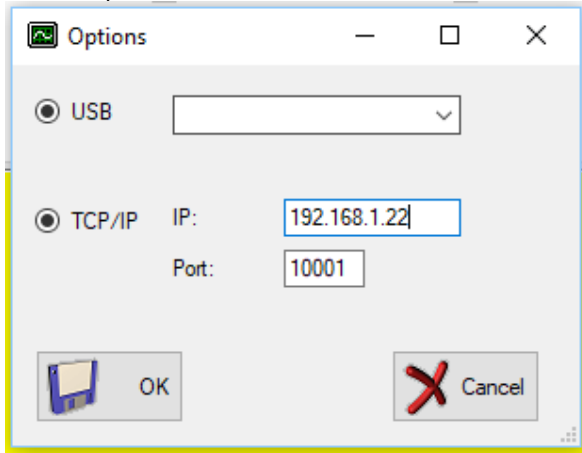
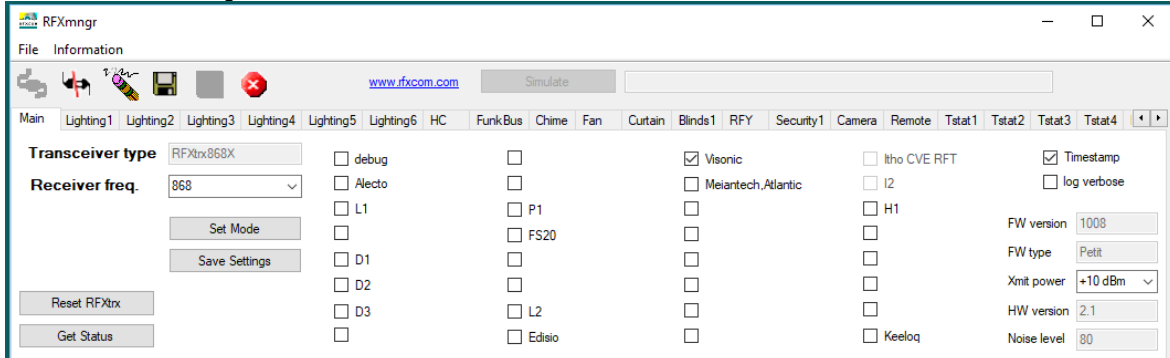Select the protocols necessary for receive and click Set Mode followed by Save Settings.
No need to select protocols for transmit!
Note that you can only select 1 protocol for receive in the RFXtrx868XL because each protocol uses different frequencies and modulation!!!

RFXtrx433XL settings:

RFXtrx868XL settings:

8. Update transceiver firmware

If required, the transceiver firmware can be updated with the RFXflash program.
Stop all connections with the transceiver and be sure that no other program connects the transceiver during flash of the transceiver!
Start the RFXflash program, select the IP address and select the port (normally 10001).
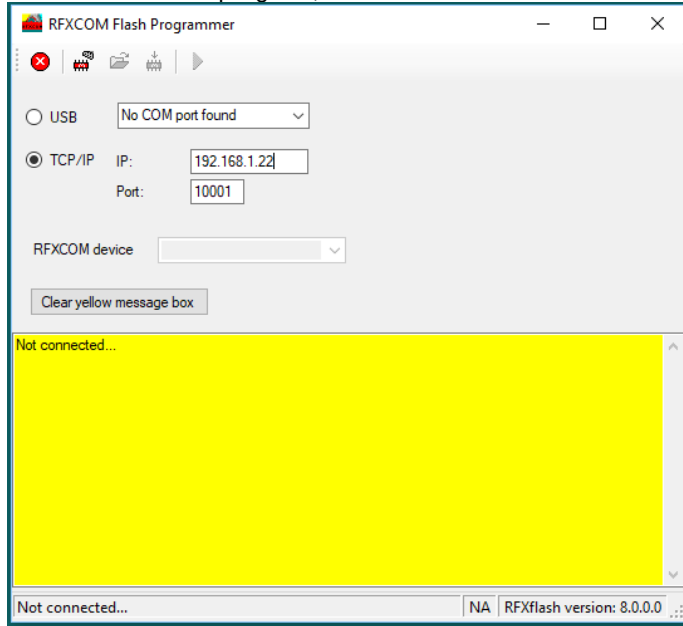
Click the connect button:
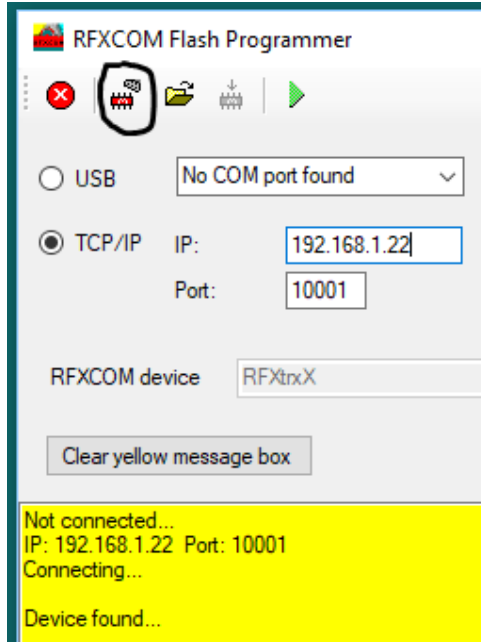
Click the Open HEX file and select the correct firmware file.

Click the Write device button. The firmware will be flashed in about one minute:

At the end of the flash proceure click the Normal Execution Mode button:

Test the RFXtrx with RFXmngr.

9. Warning:
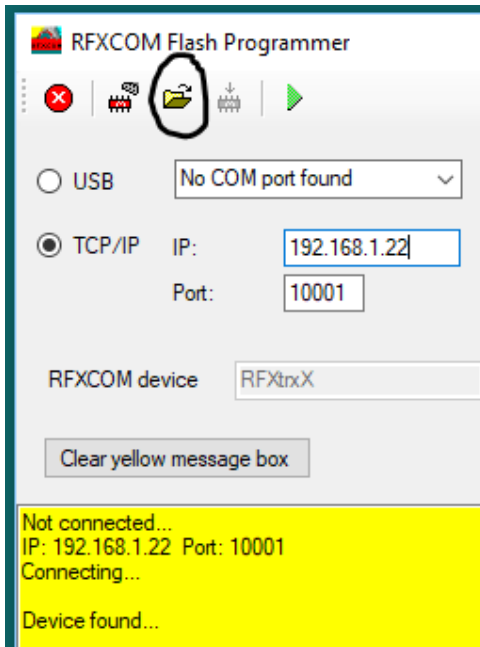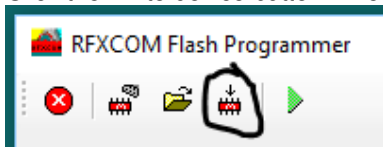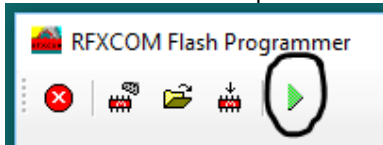
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12. Revision History

Version 0.0 October 7, 2021
    Initial version