RFX MQTT User Guide

1. Table of Contents

Chapters and sections

2. 1. Introduction

The new RFX-433EMC and RFX-868 support now also MQTT with Auto Discovery using a WiFi or W5500 LAN connection.
Power the RFX with a quality power supply of at least 2A, for example a 20W Re-Load.
Note: RFXmngr cannot be used with MQTT loaded.

2.1. 1.1. What is new in firmware V4052/V8028 generation

The current firmware generation adds a built-in Firmware Manager (/firmware), automatic update checking with user-confirmed one-click installation, a refreshed manual update page (/update), network configuration at /network, WiFi statistics with RSSI signal indication, improved MQTT Device Information/Status, a corrected IP_Address field and MQTT origin information.

2.2. 1.2. Quick start

- Install a MQTT broker
- Optional: install MQTT Explorer
- Flash MQTT software in the RFX-433EMC/RFX-868 See chapter 3
- Optional: connect USB with a terminal program (115200bd) See chapter 4.4
- Configure MQTT in the application. See chapter 6
- Configure WiFi or W5500 LAN and MQTT.
  note: MQTT Client name = Hostname. Must be unique and keep it short e.g. RFX433
- With the browser go to the IP address of the RFX and configure MQTT and protocols. See chapter 7
  Enable Auto Discovery so that new devices are added to the application.
- **Important**: Disable Auto Discovery when all required devices are received.

2.3. 1.3. MQTT and debug messages

You can connect the RFX also to the USB port of a system and use a terminal emulator to see MQTT and debug messages. For example: the **RFXCOM Terminal program**.
Or https://www.chiark.greenend.org.uk/~sgtatham/putty/
Connect the COM port, Speed: 115200

Use MQTT Explorer to show MQTT messages and to delete MQTT devices.
https://mqtt-explorer.com/

2.4. 1.4. MQTT transmit message format.

The **discovery topic** used can be configured. Default is “homeassistant”.

Note: **MQTT Client name = WiFi Hostname!**
The Hostname configured on the WiFi settings page is also used as MQTT Client name.
State messages start with the MQTT Client name you specify, for example **RFX433**.
Important: do not use duplicate Hostnames, or your RFX will be in an end-less loop.
To minimize overhead keep the Hostname short.

RFX433/TH2_e602/state : {"temperature":20,"humidity":46,"battery":100,"rssi":-51}
This Hostname/MQTT Client name must be unique for each RFX used.

Use only letters and numbers!

Command messages start also with the MQTT Client name.
RFX433/AC_1073741888/set : ON

2.5. 1.5. Auto Discovery

Enable “Auto Discovery” on the RFX configuration page to add new devices automatically using Auto Discovery. Press a button on the remote of the device you want to add or activate a sensor. After all devices are added, disable “Auto Discovery” to avoid that unwanted devices are added.

The ID’s of discovered devices are stored in non-volatile memory of the RFX. Auto Discovery messages are therefore not sent after a restart of the RFX even with Auto Discovery enabled.
To send all Auto Discovery messages again:

- Enable Auto Discovery and Clear ID’s and click Save.

Important: Disable Auto Discovery when all devices are discovered.

2.6. 1.6. Add output devices manually

If receive of a remote is not supported, (for example Somfy RTS, Cherubini) or if you don’t have the remote available of an output device, (for example an appliance module, dimmer, blinds motor) you can add the device manually.

See the chapter “Manually add MQTT devices”.

3. 2. Install and update RFX MQTT firmware

3.1. 2.1. Install and update RFX MQTT firmware

Binary MQTT WiFi and W5500 LAN firmware is available for the RFX-433EMC and RFX-868. All MQTT versions support P1.
Recommended method for first installation, recovery or changing firmware type: use the official RFXCOM Firmware Updater.
Open https://flasher.rfxcom.com in Google Chrome or Microsoft Edge. Select the RFX product, select the required firmware type and version, connect the RFXCOM by USB and click Connect RFXCOM. Select the correct USB Serial Port when prompted. When the device has been detected, click Install firmware and wait until installation is complete. Do not disconnect USB power during programming.

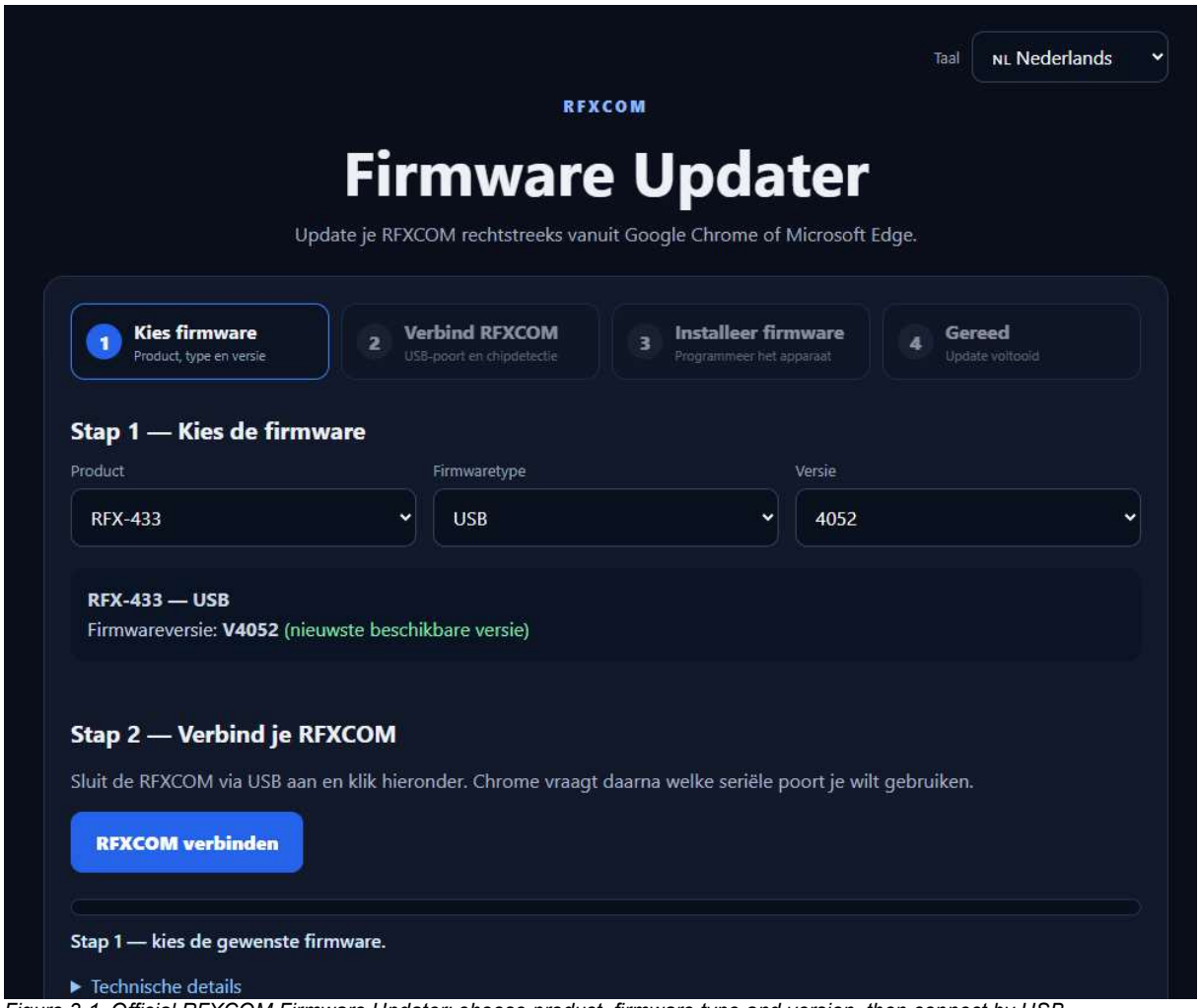

Figure 3-1. Official RFXCOM Firmware Updater: choose product, firmware type and version, then connect by USB.

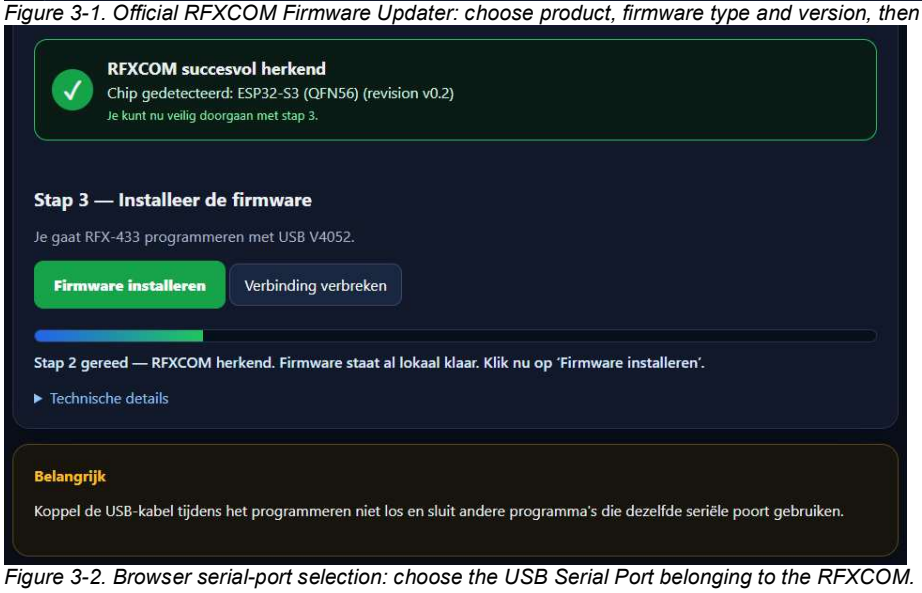

Figure 3-2. Browser serial-port selection: choose the USB Serial Port belonging to the RFXCOM.

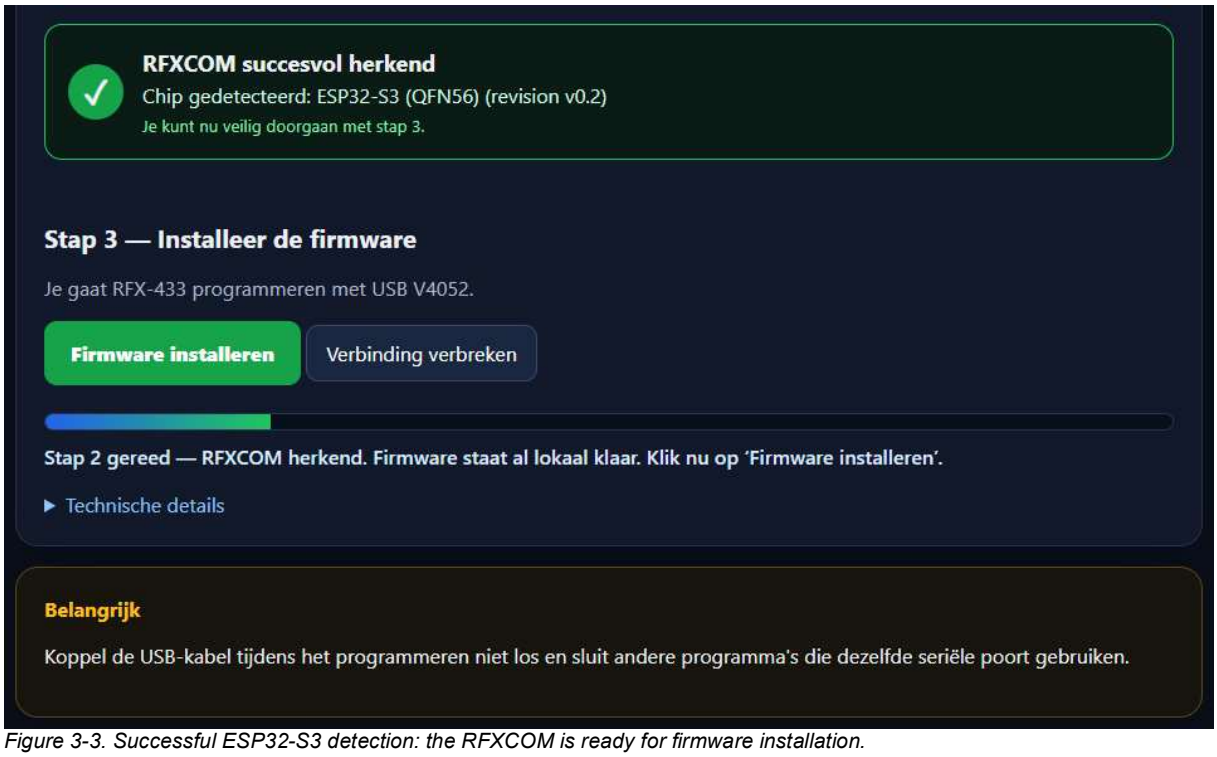

Figure 3-3. Successful ESP32-S3 detection: the RFXCOM is ready for firmware installation.

The official updater automatically uses the correct firmware files and flash addresses. Manual selection of the four ESP32 binary files and flash addresses is no longer required for normal installations.

If programming cannot start, keep RESET pressed, start the firmware installation, then release RESET when programming begins.

3.2. 2.2. Automatic Firmware Manager - /firmware

Recent MQTT firmware includes a built-in Firmware Manager. Open http://<RFX-IP>/firmware. Example: http://10.0.2.175/firmware.

The Firmware Manager identifies the exact RFXCOM product and firmware variant, shows the installed firmware version and checks which firmware version is available for that exact variant. Press Check now to perform an immediate check.

Firmware Manager: installed firmware, exact variant, update status and Check now.

The device also checks automatically approximately one minute after startup and then every six hours. Firmware is never installed automatically: installation always requires user confirmation.

When a newer compatible version is available, it can be installed from the Firmware Manager with one click. Keep power connected and do not close the browser or interrupt the device while the update is being installed.

3.3. 2.3. Manual OTA firmware update - /update

Manual OTA updating remains available for RFX-433EMC V4051 and up and RFX-868 V8027 and up. Open http://<RFX-IP>/update, select the official RFXS3.ino.bin file intended for the exact RFXCOM model and connection/firmware type, then click Install firmware/Update and wait until the process is complete.

Manual firmware update page at /update.

Use /firmware for normal updates. Use /update when you intentionally need to install a specific official .bin file. For first installation, recovery or changing firmware type, use https://flasher.rfxcom.com.

4. 3. MQTT WiFi configuration

RFXESP32_S3 old	RFXESP32_S3 new V1/V2/V3

Connect the IO20 pin to GND, Press the RESET button, Remove the connection IO20 – GND, Power cycle the RFX transceiver.	Press the RESTORE button, Press and release the RESET button, Release the RESTORE button, Power cycle the RFX transceiver.

The red LED is always on if the WiFi RFX transceiver is in AP mode or the configured WiFi connection could not be made.

4.1. 3.1. Restore WiFi and MQTT settings - recommended method

The easiest and recommended way to reset the WiFi and MQTT configuration is with RFXCOM Terminal over USB. Connect to the RFX USB serial port at 115200 baud, 8 data bits, no parity, 1 stop bit (115200 8N1). Type Restore exactly as shown and press Enter/Transmit. Then power-cycle or reset the RFX and configure WiFi/MQTT again. Hardware restore is available when a USB terminal connection is not available. On old RFXESP32_S3 hardware: connect IO20 to GND, press RESET, remove the IO20-GND connection and power-cycle. On new RFXESP32_S3 V1/V2/V3 hardware: press RESTORE, press and release RESET, release RESTORE and power-cycle.

4.2. 3.2. Configure the RFX transceiver WiFi and MQTT

Connect the RFX transceiver to USB or a stable external 5 V power supply (minimum 2 A; 3 A recommended for new installations). On a PC, phone or tablet connect to the RFXCOM WiFi Manager access point. Default password: 12345678. Open 192.168.4.1 in a browser. Complete every field marked with *. Enter the SSID and WiFi password, a unique Hostname/MQTT Client name, and all required MQTT fields: MQTT Server IP, MQTT port, MQTT User, MQTT Password and MQTT topic.

Figure 4-1. WiFi/MQTT credentials. Complete all required fields with your own network and broker settings.

Complete all fields marked with *. Settings are saved only when the complete form is valid. In the current setup page Local IP, Subnet mask and Gateway are required. Use a unique static IP address that fits your network, together with the correct subnet mask and router/gateway address.

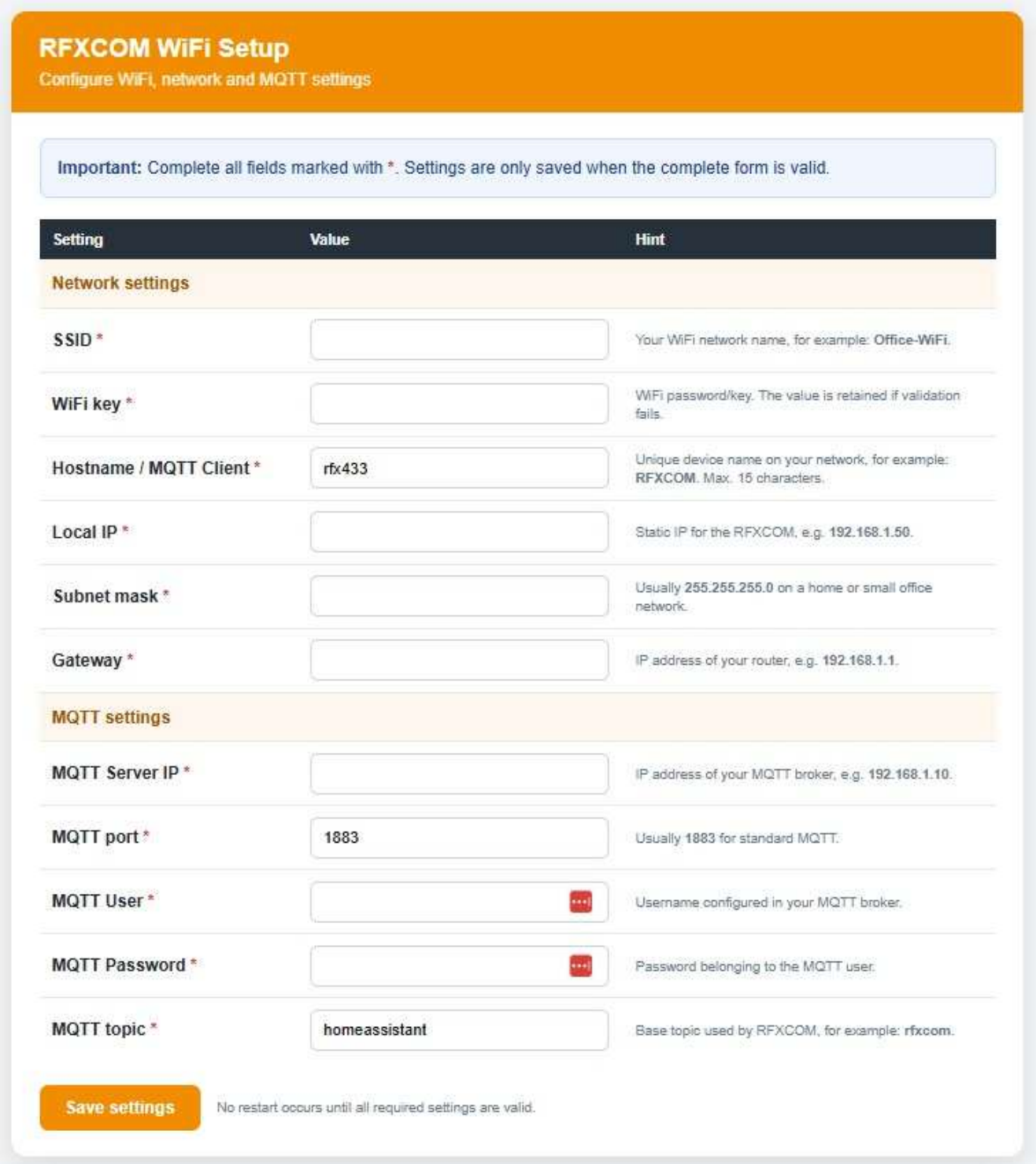

Figure 3-1. Current RFXCOM WiFi Setup page. Complete all required Network and MQTT fields before saving.

The Hostname is also the MQTT Client name. It is mandatory, must be unique for every RFXCOM, should be kept short to minimize MQTT overhead, and should contain letters and numbers only. Examples: RFX433, RFX433a, RFX868. Never use duplicate Hostname/MQTT Client names because this can cause repeated MQTT reconnects and unstable operation.

After all network and MQTT fields are correct, click Save settings. The RFX restarts, connects to WiFi and then connects to the MQTT broker. The normal RFX web server becomes reachable only after a valid network configuration has been saved and the RFXCOM has successfully joined the network.

4.3. 3.3. WiFi status and signal indicator

The web interface now shows the connected WiFi network, the current IP address, RSSI in dBm and a graphical signal indicator. This makes WiFi coverage problems much easier to diagnose. As a practical guideline, around -30 to -50 dBm is excellent, -51 to -67 dBm is good, -68 to -75 dBm is fair, and values below about -75 dBm indicate a weak connection. Actual performance also depends on interference and the access point.

WiFi status with network, IP address, RSSI and graphical signal indicator.

4.4. 3.4. Network configuration - /network

After the initial setup, network and MQTT settings can be managed at http://<RFX-IP>/network. Example: http://10.0.2.175/network. Use the same DHCP/static-IP rules described above and make sure all required MQTT fields remain valid.

4.5. 3.5. Show MQTT and WiFi debug messages

Connect RFXCOM Terminal to the RFX USB serial port at 115200 baud, 8 bits, no parity, 1 stop bit. Debug messages are displayed over USB. Enable MQTT log to USB when MQTT messages must also be shown. PuTTY or a compatible Web Serial terminal can also be used. Note: with standard RFXCOM protocol software on USB, use 38400 baud instead.

5. 4. MQTT W5500 LAN

(See the RFX User Guide.pdf how to connect the W5500 LAN controller.)
Disconnect the LAN cable.
Connect the RFX transceiver to an USB port.
Connect the **RFXCOM Terminal** program on the USB port.
(or use PuTTY or https://webserial.io/)
Select 115200 bd, 8 bits, no parity, 1 stop bit
Connect the LAN cable.

You will see the DHCP assigned IP address of the RFX.
In this example: 192.168.1.225

With a browser go to this address. In this example 192.168.1.225

Enter a Hostname, Local IP with Subnet Mask and Gateway, for example:
RFX433
192.168.1.150
255.255.255.0
192.168.1.1

Note: DHCP is used if no Local IP, Subnet Mask and Gateway info is entered.
It is preferred to use a fixed IP address as DHCP is not reliable.

Click Save and the RFX transceiver will restart and connect your LAN network.

5.1. 4.1. Restore LAN & MQTT settings with an USB command

The RFX transceiver must have LAN software loaded.
Connect a terminal program to the USB (serial 115200, 8N1)
Enter the text **Restore** followed by an enter/transmit command.

5.2. 4.2. Show W5500 LAN debug messages

Connect the **RFXCOM Terminal** program on the USB port.
(or use PuTTY or https://webserial.io/)

Select 115200 bd, 8 bits, no parity, 1 stop bit
Press RESET and debug messages are shown.

5.3. 4.3. Use the RFX connected with the W5500 LAN

Connect the RFX transceiver to an USB or the external 5V 2A power supply.
Configure MQTT and protocols in the RFX.

6. 5. Configure MQTT in the application

6.1. 5.1. Home Assistant

Installation

Follow these steps to get the add-on installed on your system:

1. Navigate in your Home Assistant frontend to **Settings** -> **Add-ons** -> **Add-on store**.
2. Find the "Mosquitto broker" add-on and click it.
3. Click on the "INSTALL" button.

How to use

The add-on has a couple of options available. To get the add-on running:

1. Start the add-on.
2. Have some patience and wait a couple of minutes.
3. Check the add-on log output to see the result.

Create a new user for MQTT via your Home Assistant's frontend **Settings** -> **People** -> **Users** , (i.e. not on Mosquitto's **Configuration** tab). Notes:

1. This name cannot be homeassistant or addons, those are reserved usernames.
2. If you do not see the option to create a new user, ensure that **Advanced Mode** is enabled in your Home Assistant profile.

To use the Mosquitto as a broker, go to the integration page and install the configuration with one click:

1. Navigate in your Home Assistant frontend to **Settings** -> **Devices & Services** -> **Integrations**.
2. MQTT should appear as a discovered integration at the top of the page
3. Select it and check the box to enable MQTT discovery if desired and hit submit.

If you have old MQTT settings available, remove this old integration and restart Home Assistant to see the new one.

6.2. 5.2. Domoticz

In Setup – Hardware, select:

At remote Address, set the IP address of the MQTT broker.

7. 6. Configure MQTT behaviour and protocols in the RFX

Open the web page on the IP address of the RFX.

- Enable Auto Discovery only when you want to add a new device to the application. If the device is added disable Auto Discovery and click Save.
- Select “Clear ID’s and Auto Discovery” only if you need to remove all know devices from the RFX and transmit Auto Discovery messages again for received devices.
- Fan ID is the decimal ID of an Orcon WTW. (Press Auto on the RF15 to add this.)
- Enable P1 only if the P1 connection is present.
- Only 1 protocol can be selected on RFX-868!
- All other RFX-433 protocols are disabled if BlindsT0, MCZ, Gaposa, Funkbus/Somfy or Quinetic is selected.

8. 7. MQTT Device Information, Status and Origin

Recent MQTT firmware publishes improved device information and status data so applications can identify the RFXCOM product and firmware more clearly. The MQTT IP_Address field has been corrected to report the current device IP address correctly.
MQTT messages now also include origin information. This identifies the RFXCOM/firmware source of the MQTT information more clearly and is useful when troubleshooting installations with multiple RFXCOM devices or when inspecting messages in Home Assistant or MQTT Explorer.
Because the Hostname is also used as the MQTT Client name and as the prefix for state and command topics, every RFXCOM on the broker must use a unique Hostname.

9. 8. RFX-P1

The RFX transceiver can be connection to the P1 bus of smart meters.

- Connect the RFX-P1 option board to the RFX PCB.
- Or solder the RJ12 6P6C or RJ12 6P4C cable to the RFX.

RJ12 connections to the RFX PCB:

- Pin 2 RTS/DR to IO7
- Pin 3 GND to GND
- Pin 5 RxD to IO5

- RxD - IO5 needs a 3k3 pull-up resistor to +3V3 if the RFX is the only device connected to P1. On V3 PCB’s Solder the bridge between R5 and pin 5.
  On older PCB versions solder a 3K3 resistor between IO5 and +3V3

Select an interval >= 30 seconds to avoid a lot of MQTT traffic.

Select the correct parameters for your smart meter:

Meter Brand	DSMR version	ID	Baudrate	Bits	Parity
Iskra ME382, MT382	2.2	/ISK5	9600	7	E

Iskra AM550	5.0	/ISK5	115200	8	N
Kaifa E0003,E0025,MA105,MA304	4.0	/KFM5	115200	8	N
Kamstrup 162,351,382	2.2	/KMP5	9600	7	E
Landis+Gyr E350 ZCF100,ZCF110,ZFF100,ZMF100	4.0	/XMX5LG	115200	8	N
Sagemcom XT210	4.0		115200	8	N

RJ12 Pin	ESP32 Pin	Wire color	Signal name	Description
1		wt - white	+ 5V power	Power supply (not used by the RFX)
2	IO7	zw - black	DR	Request to Send
3		rd - red	GND	Data GND
4		gn - green	NC	Not connected
5	IO5	gl - yellow	RxD	Data output to the RFX
6		bl - blue	GND power	Power GND (not used by the RFX)

10. 9. List ID's of Somfy RTS, ASA and Cherubini devices

List ID's of Somfy RTS, ASA and Cherubini devices already added in this RFX-433:

Connect a terminal program to the USB (serial 115200, 8N1)
Enter the text **ListIDS** followed by an enter/transmit command.

The list of connected ASA, Somfy RTS and Cherubini devices is listed like:
Nbr: 0 Type:Cherubini ID: 10 30 00
Nbr: 1 Type:Cherubini ID: 10 30 01
Nbr: 2 Type:Somfy RTS ID: 0 00 01 Unit:1
Nbr: 3 Type:Somfy RTS ID: 1 02 04 Unit:1
Nbr: 4 Type:Somfy RTS ID: 1 02 04 Unit:3

11. 10. Manually add MQTT devices

Supported sensors are automatically added. Use the remote for remote controlled devices to add this device. If the remote is not available or can't be used, for example Somfy RTS, DD27xx, Cherubini, use the procedure below to add the device.

11.1. 10.1. Somfy RTS, ASA, Simu, TUBE

You can't use the ID of the Somfy RTS/ASA/Simu/Tube remote because the protocol is using a rolling code. Send an MQTT message to add a Somfy/ASA/Simu device to the application.
The rolling code is saved in the RFX-433(EMC).

The RFXCOM remote is registered in the RFX-433(EMC) by sending a Program command.
If the Somfy device is already connected with this RFX you can add the MQTT Somfy/ASA/Simu/Tube device.
Up to 40 RFXCOM remotes can be registered in the RFX-433.
Remotes can be erased from the RFX-433 using the Erase command in the RFXmngr program.

Somfy RTS operates at 433.42MHz. The RFX-433 is normally in receiving mode at 433.92MHz. The RFX-433 switches to 433.42MHz if a RFY command is transmitted and back to receiving mode at 433.92MHz.
Note: Somfy IO at 868MHz is not supported by RFXCOM.

In Home Assistant:
Publish an MQTT message to ‘add’ OR to ‘pair and add’ the Somfy RTS/ASA/TUBE device.

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/Somfy_<hex ID decimal unit>/cfg

Or for a Somfy with Reversed Open/Close
<MQTT client name>/SomfyR_<hex ID decimal unit>/cfg

Or for a Somfy Centralis modules that requires commands of 2 seconds:
<MQTT client name>/Somfy2_<hex ID decimal unit>/cfg

Or for an ASA:
<MQTT client name>/ASA_<hex ID decimal unit>/cfg

Or for a TUBE:
<MQTT client name>/TUBE_<hex ID decimal unit>/cfg

Hex ID can be from 0 00 01 to F FF FF
For Somfy/ASA/Simu: Decimal unit, 2 digits from 00 to 04
For TUBE: Decimal unit, 2 digits from 01 to 15

For example: ID = 1 02 1F and unit = 01

The Payload has this format:
Set the Somfy RTS/ASA/Simu/TUBE device in learning mode. Pair the device now with the RFX-433 and create the MQTT device:
Payload: **program**
If the Somfy RTS/ASA/Simu/TUBE device is already paired with the RFX-433, create the MQTT device:
Payload: **add**

11.1.1. 10.1.1. Move RFY devices from the RFXtrx to the RFX-433EMC

Use standard software (not MQTT software) and RFXmngr for this.

Important:

- If RFY devices are moved to the RFX-433 do not use the old RFXtrx to control the RFY devices, because the rolling code will become out of sync with the Somfy device.
- Use the latest RFXmngr and for the RFXtrx433E the latest Pro1 or Pro2 firmware and for the RFXtrx433XL the latest ProXL1 firmware and for the RFX-433 the latest RFX-433 firmware

Step 1: List all RFY devices in the “old” RFXtrx.

Step 2: Connect the “new” RFX-433.
Select the ID, Unit Code, rfu1, rfu2 and rfu3 values. (**select, do not enter values**)
Transmit a Program command. The values are now programmed in the “new” RFX-433 and the Somfy device can be controlled with this RFX-433.

Transmit an Up and Down command to be sure the motor is no longer in program mode!

11.2. 10.2. BlindsT7 (Forest)

BlindsT7 = Forest

To add BlindsT7 manually:
Pair the RFX-433EMC with each motor, as an additional remote, using a unique ID for each motor.

In Home Assistant:
Publish an MQTT message to 'add' OR to 'pair and add' the BlindsT7 device.

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/BlindsT7_<hex ID decimal unit>/cfg

The ID can have a value from Hex 00 00 00 1 to hex FF FF FF F.
The unit can have a value from 01 to15. (00 = all devices with the same ID)
Do not pair with unit 0 = all. Use only 'add' with unit 0!
Use a unique ID-unit number for each Blinds device.

For example:
Forest: <MQTT client name>/BlindsT7_112233401/cfg

The Payload has this format:
Set the Blinds device in learning mode. Pair the Blinds device now with the RFX-433 and create the MQTT device:
Payload: **program**
If the Blinds device is already paired with an RFX, create the MQTT device only:
Payload: **add**

11.2.1. 10.2.1. BlindsT7 MQTT commands sent by Home Assistant

(replace RFX433 and BlindsT7_112233401 with the correct data)
RFX433/BlindsT7_112233401/set OPEN, CLOSE, STOP

11.3. 10.3. BlindsT0, BlindsT2, BlindsT3, BlindsT6

BlindsT0 = Bofu, RollerTrol, Hasta new, Louvolite
BlindsT2 = A-OK RF01
BlindsT3 = A-OK AC114/AC123/Motorlux
BlindsT6 = DC106/Rohrmotor24-RMF/Yooda/Dooya/ ESMO/Brel/Quitidom

To add a BlindsT0 device to the RFX-433 and in the application:

1. Enable BlindsT0 on the RFX Web Page.
2. transmit a command with the BlindsT0 remote.

To add a BlindsT2, T3 or T6 device to the RFX-433 and in the application:

3. Enable BlindsTx on the RFX Web Page.
4. transmit a command with the BlindsT1, T2, T3 or T6 remote.

Pair the RFX-433EMC with each motor, as an additional remote, using a unique ID for each motor. See the motor User Guide, how to add a 2nd remote.

In Home Assistant:
Publish an MQTT message to 'add' OR to 'pair and add' the Blinds device.

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

Use a unique "ID-unit" number for each Blinds device.

The Topic has this format:

BlindsT0
<MQTT client name>/BlindsT0_<hex ID decimal unit>/cfg
The ID can have a value from Hex 00 01 to hex FF FF.
The unit can have a value from 01 to15. (00 = all devices with the same ID)
Do not pair with unit 0 = all. Use only 'add' with unit 0!

BlindsT2
<MQTT client name>/BlindsT2_<hex ID>/cfg
The ID can have a value from Hex 00 00 01 to hex FF FF FF.

BlindsT3
<MQTT client name>/BlindsT3_<hex ID decimal unit>/cfg
The ID can have a value from Hex 00 00 01 to hex FF FF FF.
The unit can have a value from 01 to15. (16 = all devices with the same ID)
Do not pair with unit 0 = all. Use only 'add' with unit 0!

BlindsT6
<MQTT client name>/BlindsT6_<hex ID decimal unit>/cfg
The ID can have a value from Hex 00 00 00 00 1 to hex FF FF FF F.
The unit can have a value from 01 to15. (00 = all devices with the same ID)
Do not pair with unit 0 = all. Use only 'add' with unit 0!

For example:
Brel, Dooya: <MQTT client name>/BlindsT6_112233401/cfg

The Payload has this format:
Set the Blinds device in learning mode. Pair the Blinds device now with the RFX-433 and create the MQTT device:
Payload: **program**
If the Blinds device is already paired with the RFX-433, create the MQTT device only:
Payload: **add**

11.4. 10.4. Brel, Dooya, Motionblinds, Gaviota Elite, mhz.de)Bi-directional DD27x)

(Brel, Dooya, Motionblinds, Gaviota Elite, mhz.de and other compatibles)

First you must pair the RFX-433EMC with each motor, as an additional remote, using a unique ID for each motor.
You can't use the ID of the bi-directional remote because the bi-directional protocol is using a rolling code. Send an MQTT message to add a bi-directional device to the application.

Publish an MQTT message to ‘add’ OR to ‘pair and add’ the DD27xx device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/DD27xx_<hex ID decimal unit>/cfg

The ID can have a value from Hex 00 00 00 01 to hex FF FF FF FF.
The unit can have a value from 01 to16. (00 = all devices with the same ID)
With 3 blind motors:

Program Motor 1 with: 112233FF01
Program Motor 2 with: 112233FF02
Program Motor 3 with: 112233FF03

Add Motor 4 to the MQTT application (do not program a motor) with: 112233FF00
All 3 motors will respond with only one command to “motor 4”.

Use a unique ID-unit number for each DD27xx device.

For example:

<MQTT client name>/DD27xx_112233FF01/cfg

The Payload has this format:
Set the DD27xx device in learning mode. Pair the DD27xx device now with the RFX-433 and create the MQTT device:
Payload: **program**
If the DD27xx device is already paired with the RFX-433, create the MQTT device:
Payload: **add**

11.5. 10.5. Cherubini (BlindsT18)

First you must pair the RFX-433EMC with each motor, as an additional remote, using a unique ID for each motor.
You can't use the ID of the Cherubini remote because the Cherubini protocol is using a rolling code. Send an MQTT message to add a Cherubini device to the application.
The rolling code is stored in the RFX-433EMC.

Publish an MQTT message to ‘add’ OR to ‘pair and add’ the Cherubini device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/BlindsT18_<hex ID decimal unit>/cfg

The ID must be in the range of 10 30 00 to 10 3F FF
Decimal unit must be 00
Use a unique number for each Cherubini device.

If the Cherubini device is already paired with the RFX-433EMC use this ID.

The Payload has this format:

Set the Cherubini in learning mode. Pair the Cherubini device now with the RFX-433EMC and create the MQTT device:
Payload: **program**
If the Cherubini device is already paired with the RFX-433EMC, create the MQTT device:
Payload: **add**

11.6. 10.6. Ozroll (BlindsT20)

First you must pair the RFX-433EMC with each motor, as an additional remote, using a unique ID for each motor.
You can't use the ID of the OZroll remote because the Ozroll protocol is using a rolling code.
Send an MQTT message to add a OZroll device to the application.
The rolling code is stored in the RFX-433EMC.

Publish an MQTT message to ‘add’ OR to ‘pair and add’ the Ozroll device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/BlindsT20_<hex ID decimal unit>/cfg

Hex ID can be from 00 01 to FF FF
Decimal unit, 2 digits from 00 to 08

For example: ID = 11 22 and unit = 01

If the Ozroll device is already paired with the RFX-433EMC use this ID.

The Payload has this format:
Set the Ozroll in learning mode. Pair the Ozroll device now with the RFX-433EMC and create the MQTT device:
Payload: **program**
If the Ozroll device is already paired with the RFX-433EMC, create the MQTT device:
Payload: **add**

11.7. 10.7. Screenline (BlindsT13)

You can assign a random ID to the Screenline. If you want to use the same ID as the remote you can find the ID of the remote using standard USB or WiFi software and RFXmngr.
Start RFXmngr and enable only the Lighting4 protocol and undec on.
Press a button on the remote and you will receive a message like:
Packettype = UNDECODED RF Message
UNDECODED ARC:40000F7BD1D2AF04B7
The ID starts at the 7th character, in this example the ID = 7B D1

Publish an MQTT message to ‘add’ OR to ‘pair and add’ the Screenline device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/BlindsT13_<hex ID decimal unit>/cfg

Hex ID can be from 00 01 to FF FF
Decimal unit, 2 digits from 01 to 99

For example: ID = 7B D1 and unit = 01

The Payload has this format:
Set the Screenline in learning mode. Pair the Screenline device now with the RFX-433EMC and create the MQTT device:
Payload: **program**
If the Screenline device is already paired with the RFX-433EMC, create the MQTT device:
Payload: **add**

11.8. 10.8. Harrison curtain

The address used is converted to the address selected in the Harrison curtain motor using the table below.

switch	1	2	3	4		5	6	7	8	
	H	H	H	H		X	X	X	X	H H H H = House code
A	0	1	1	0	1	0	0	0	0	X X X X = device code
B	0	1	1	1	2	0	0	0	1	
C	0	1	0	0	3	0	0	1	0	
D	0	1	0	1	4	0	0	1	1	
E	1	0	0	0	5	0	1	0	0	
F	1	0	0	1	6	0	1	0	1	
G	1	0	1	0	7	0	1	1	0	
H	1	0	1	1	8	0	1	1	1	
I	1	1	1	0	9	1	0	0	0	
J	1	1	1	1	10	1	0	0	1	
K	1	1	0	0	11	1	0	1	0	
L	1	1	0	1	12	1	0	1	1	
M	0	0	0	0	13	1	1	0	0	
N	0	0	0	1	14	1	1	0	1	
O	0	0	1	0	15	1	1	1	0	
P	0	0	1	1	16	1	1	1	1	

Switch position in the motor:
Up= 1 Middle= not used Down= 0

Examples:
If you assign the address E7 (1000 0110) to the curtain motor then set the switches to: 1=up, 2=down, 3=down, 4=down, 5=down, 6=up, 7=up, 8=down

If you assign the address A2 (0110 0001) to the curtain motor then set the switches to: 1=down, 2=up, 3=up, 4=down, 5=down, 6=down, 7=down, 8=up

Publish an MQTT message to ‘add’ OR to ‘pair and add’ the Harrison device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/Harrison_<ID code decimal unit>/cfg
The ID can be a character from A to P

Decimal unit, 2 digits from 01 to 16
For example: ID = A and unit = 01

The Payload has this format:
If the Harrison device is already paired with the RFX-433EMC, create the MQTT device:
Payload: **add**

11.9. 10.9. Novy

With Fan enabled, the Novy remote is received and the MQTT device will be created.
If no remote available, you can use this procedure.

Use RFX-433 USB software and RFXmngr to find the ID of the hood.
Select the ID Novy (1-10) and transmit a command.

If the ID is 10 use the hex “A” in the MQTT command below.

11.10. 10.10. Orcon

Transmit an Auto command on the Orcon RF15 to add Orcon.
The Orcon ID is automatically added.

11.11. 10.11. Itho

Select Itho CVE-S,HRU400 or CVE,HRU ECO depenfing on the WTW unit in use.
Transmit a command on an Itho remote.

11.12. 10.12. Falmec, Falmec Levante

Use RFX-433 USB software and RFXmngr to find the ID of the hood.
The ID used in MQTT is “123” followed by the hex device ID.
E.g. If the Falmec ID is 5, the MQTT ID is 1235

Select the ID Falmec (0 – F) and transmit a command.
If the device responds you know the ID

11.13. 10.13. AC KlikAanKlikUit/Chacon/Nexa

11.13.1. 10.13.1. AC dimmer

The easiest way to add an AC dimmer is to send a dim command using the remote or RFXmngr with another RFX.

Another way is to add the dimmer is to publish an MQTT command.
Publish an MQTT message to ‘add’ the AC dimmer.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/ACdim_<hex ID decimal unit>/cfg
Hex ID can be from 0 00 00 01 to 3 FF FF FF
Decimal unit, 2 digits from 01 to 16

For example:
ID = 0 03 02 01 and unit = 01

The Payload has this format:
To create the MQTT AC dimmable light device:
Payload: **add**

11.13.2. 10.13.2. AC On/Off module/light

The easiest way to add an AC On/Off device is to send an On or Off command using the remote or another RFX.

Another way is to add the AC device is to publish an MQTT command.
Publish an MQTT message to ‘add’ the AC On/Off switch device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/ACmod_<hex ID decimal unit>/cfg
Hex ID can be from 0 00 00 01 to 3 FF FF FF
Decimal unit, 2 digits from 01 to 16

For example:
ID = 0 03 02 01 and unit = 01

The Payload has this format:
To create the MQTT AC appliance module or on/off light module:
Payload: **add**

11.14. 10.14. Edisio

The easiest way to add an Edisio device is to send a command using the remote or another RFX.

Another way is to add the Edisio device is to publish an MQTT command.
Publish an MQTT message to ‘add’ the Edisio switch device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name Edisio_<hex ID decimal unit >/cfg
Hex ID can be from 00 00 00 01 to FF FF FF FF
Decimal unit, 2 digits, can be 01, 04 or 07

For example:
ID = 02 24 E3 2A and unit = 01

The Payload has this format:
To create the MQTT Edisio module:
Payload: **add**

This will create 4 devices, a cover, a light, battery and RSSI.

11.15. 10.15. Livolo

11.15.1. 10.15.1. Livolo 1 or 3 gang

The easiest way to add a Livolo device is to send a Toggle1 command using the remote or another RFX.

Another way is to add the Livolo device is to publish an MQTT command.
Publish an MQTT message to ‘add’ the Livolo switch device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/Livolo_<hex ID>/cfg
Hex ID can be from 00 01 to FF FF

For example:
ID = 2B AD

The Payload has this format:
To create the MQTT Livolo module:
Payload: **add**

11.15.2. 10.15.2. Livolo 1 to 10 gang

The easiest way to add a Livolo10 device is to send a Toggle1 command using the remote or another RFX.

Another way is to add the Livolo10 device is to publish an MQTT command.
Publish an MQTT message to ‘add’ the Livolo10 switch device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/Livolo10_<hex ID>/cfg
Hex ID can be from 00 01 to FF FF

For example:
ID = 38 0A

The Payload has this format:
To create the MQTT Livolo10 module:
Payload: **add**

11.16. 10.16. HomeEasy EU

11.16.1. 10.16.1. HE dimmer

The easiest way to add an HE dimmer is to send a dim command using the remote or RFXmngr with another RFX.

Another way is to add the dimmer is to publish an MQTT command.
Publish an MQTT message to ‘add’ the HE dimmer.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/HEdim_<hex ID decimal unit>/cfg
Hex ID can be from 0 00 00 01 to 3 FF FF FF
Decimal unit, 2 digits from 01 to 16

For example:
ID = 0 03 02 01 and unit = 01

The Payload has this format:
To create the MQTT HE dimmable light device:
Payload: **add**

11.16.2. 10.16.2. HE On/Off module/light

The easiest way to add an HE On/Off device is to send an On or Off command using the remote or another RFX.

Another way is to add the HE device is to publish an MQTT command.
Publish an MQTT message to ‘add’ the HE On/Off switch device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/HEmod_<hex ID decimal unit>/cfg
Hex ID can be from 0 00 00 01 to 3 FF FF FF
Decimal unit, 2 digits from 01 to 16

For example:
ID = 0 03 02 01 and unit = 01

The Payload has this format:
To create the MQTT HE appliance module or on/off light module:
Payload: **add**

11.17. 10.17. X10 Lighting1

The easiest way to add an X10 On/Off device is to send an On or Off command using the remote or another RFX.

Publish an MQTT message to ‘add’ OR to ‘pair and add’ the X10 module device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/X10mod_<ID code decimal unit>/cfg
The ID can be a character from A to P
Decimal unit, 2 digits from 01 to 16
For example: ID = A and unit = 01

The Payload has this format:
Set the X10 module in learning mode. Pair the X10 module device now with the RFX-433EMC and create the MQTT device:
Payload: **program**

If the X10 module device is already paired with the RFX-433EMC, create the MQTT device:
Payload: **add**

11.18. 10.18. ARC

The easiest way to add an ARC On/Off device is to send an On or Off command using the remote or another RFX.

Publish an MQTT message to ‘add’ the ARC module device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/ARC_<ID code decimal unit>/cfg
The ID can be a character from A to P
Decimal unit, 2 digits from 01 to 16
For example: ID = A and unit = 01

The Payload has this format:
Create the MQTT ARC device:
Payload: **add**

11.19. 10.19. IT FA500, PROmax

Publish an MQTT message to ‘add’ the IT device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/IT_<hex ID unit>/cfg
Hex ID can be from 00 01 to FF FF
Unit, Decimal unit, 1 digit from 1 to 4

The Payload has this format:
To create the MQTT IT device:
Payload: **add**

11.20. 10.20. Cotech (Kangtai)

The easiest way to add a Kangtai appliance module is to send a On or Off command using the remote or RFXmngr with another RFX.

Another way is to add the Kangtai device is to publish an MQTT command.
Publish an MQTT message to ‘add’ the Kangtai On/Off device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/Cotech_<hex ID decimal unit>/cfg
Hex ID can be from 00 01 to FF FF
Decimal unit, 2 digits from 01 to 04

For example:
ID = A0 11 and unit = 01

The Payload has this format:
To create the MQTT Cotech switch module:
Payload: **add**

11.21. 10.21. MCZ stove

Enable the MCZ protocol on the RFX-433 Web Server page to get the ID of the MCZ remote normally used to control the MCZ stove.
Transmit a command with the remote and a MCZ3 (3 fans) device will be created even if you own a 1 or 2 fans MCZ type.

If you own a 1 or 2 fans type you can delete this MCZ3 device and use the ID in this MQTT message: Publish an MQTT message to ‘add’ the MCZ device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/MCZ1_<hex ID>/cfg
Or <MQTT client name>/MCZ2_<hex ID>/cfg
Or <MQTT client name>/MCZ3_<hex ID>/cfg

Hex ID can be from 00 00 01 to FF FF FF

The Payload has this format:
Payload: **add**

11.21.1. 10.21.1. MCZ usage with MQTT

Important: remove the batteries from the MCZ remote so that the remote cannot control the MCZ stove while you control it by MQTT.

Beep can be selected On or off.
Desired temperature can be used by your script to compare this with the room temperature to control the MCZ.
Fan speed can be 0 to 5 or Auto. Off is 0.
Mode can be Off, Manual, Auto or Eco.
Power level can be 1 to 5

How to use the MCZ device.

First set the Fan(s) speed and Power level!
The command will be executed when you transmit the Mode command.

Manual Mode can be used to control the MCZ pellet stove.
Use a temperature sensor to measure the room temperature.
If the difference between the desired temperature and the measured temperature is large, for example > 2 degrees, send the following preset commands in this order:

- Fan 1 = Auto,
- Fan 2 = Auto, (only in case of a 2 or 3 fans MCZ type)
- Fan 3 = Auto, (only in case of a 3 fans MCZ type)
- Power = 5
- Beep On of Off (optional)
- Mode = Manual

Use fan speed=0 with care!!!!
A fan speed=0 is only allowed in Auto or Manual mode.

The MCZ stove has a NO AIR function.
Set a Flame power=1 and set all fan speed to 3. The stove will now cool down.
After 10 minutes you can set all fan speed to 0 and keep the Flame power = 1.

For the 1 fan model fan speed zero is only allowed with Flame power=1
For 2 and 3 fan models with Flame power different from 1 you must set at least one fan different to zero.

No RF command is transmitted if a fan speed=0 is used in Eco mode or all fan speed=0 and a Flame power > 1 is selected.

11.22. 10.22. PT2262 / EV1527

With Lighting4 enabled, the PT2262/EV1527 remote is received and the MQTT device will be created.
If no remote available, you can use this procedure.

Publish an MQTT message to ‘add’ the PT2262 device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/PT2262_<6 digits hex ID>_<decimal pulse length>/cfg

Hex ID can be from 00 00 01 to FF FF FF
The decimal pulse length in µseconds (> 140) depends on the receiver need.

The Payload has this format:
Payload: **add**

11.23. 10.23. Funkbus (Jung, Gira, Insta)

The easiest way to add an Funkbus device is to send a command using the Funkbus remote or another RFX.
Enable Funkbus receive on the RFX-433 Web Server page.
All other protocols are disabled because the receiver is set to 433.42MHz.

Another way is to add the Funkbus device is to publish an MQTT command.
It is not required to enable Funkbus receive on the RFX-433 Web Server page.
Publish an MQTT message to 'add' the Funkbus device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name / FB _<hex ID> <Group code> <Channel>/cfg
Or <MQTT client name FB _<hex ID> 0 <Scene>/cfg
Hex ID can be from 00 00 1 to FF FF F

Group code: A, B, C
Channel, 1 digit, 1 to 8
OR
Group code: 0 = Scene
Scene, 1 digit, 1 to 5

For example, for a Group/Channel:
ID = 11 22 3 and Group code=A, Channel =1

The Payload has this format:
To create the MQTT Funkbus module:
Payload: **add**

This will create 3 devices, Channel-, Channel+, Cmd time.

For example, for a scene:
ID = 11 22 3 and Group =0, Scene=1

The Payload has this format:
To create the MQTT Funkbus scene module:
Payload: **add**

This will create 7 devices. All On, All Off and RSSI are only created at Scene 1

11.24. 10.24. Mertik

11.24.1. 10.24.1. G6R-H4TB / G6R-H4T / G6R-H4TD

Mertik types supported: G6R-H4TB / G6R-H4T / G6R-H4T21-Z22 / G6R-H4TD / G6R-H4T16
With Mertik enabled, the Mertik remote is received, and the MQTT device will be created.
If no remote available, you can use this procedure.

Publish an MQTT message to 'add' the Mertik device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format (depending on the Mertik type):
<MQTT client name>/G6RH4T1_<2 digits hex ID>/cfg
Hex ID can be from 01 to FF

<MQTT client name>/G6RH4TD_<4 digits hex ID>/cfg
Hex ID can be from 00 01 to FF FF

<MQTT client name>/G6RH4TB_<5 digits hex ID>/cfg
Hex ID can be from 0 00 01 to F FF FF

The Payload has this format:
Payload: **add**

11.24.2. 10.24.2. G6R-H4S

The Mertik remote of the G6R-H4S is not received by the RFX-433EMC.

Publish an MQTT message to 'add' the Mertik G6R-H4S device.
In Home Assistant:

- Go to Settings – Devices & services – select the MQTT integration.
- Integration entries – Mosquitto broker – configure

The Topic has this format:
<MQTT client name>/G6RH4S_<2 digits hex ID>/cfg
Hex ID can be from 01 to FF

The Payload has this format:
Payload: **add**

12. 11. MQTT commands send

These MQTT commands are accepted by the RFX and implemented in Auto Discovery.

Home Assistant is using these commands, and no manual action is needed.
For other systems like Homey you can use these commands.

12.1. 11.1. Somfy RTS, ASA, Simu, TUBE MQTT commands

(replace RFX433 and Somfy_1021F01 with the correct data)
RFX433/Somfy_1021F01/set OPEN, CLOSE, STOP

12.2. 11.2. BlindsT0 MQTT commands

(replace RFX433 and BlindsT0_112201 with the correct data)
RFX433/BlindsT0_112201/set OPEN, CLOSE, STOP

12.3. 11.3. BlindsT2 MQTT commands

(replace RFX433 and BlindsT2_11223301 with the correct data)
RFX433/BlindsT2_11223301/set OPEN, CLOSE, STOP

12.4. 11.4. BlindsT3 MQTT commands

(replace RFX433 and BlindsT3_11223301 with the correct data)
RFX433/BlindsT3_11223301/set OPEN, CLOSE, STOP

12.5. 11.5. BlindsT6 MQTT commands

(replace RFX433 and BlindsT6_112233401 with the correct data)
RFX433/BlindsT6_112233401/set OPEN, CLOSE, STOP
RFX433/BlindsT6_112233401/set_position - xxx

12.6. 11.6. Bi-directional Brel/Dooya/Motionblinds MQTT commands

(replace RFX433 and DD27xx_112233FF01 with the correct data)
RFX433/DD27xx_112233FF01/set OPEN, CLOSE, STOP

12.7. 11.7. Cherubini MQTT commands

(replace RFX433 and BlindsT18_10301F00 with the correct data)
RFX433/BlindsT18_10301F00/set OPEN, CLOSE, STOP
RFX433/BlindsT18_10301F00/set_position - xxx

12.8. 11.8. Ozroll MQTT commands

(replace RFX433 and BlindsT20_112201 with the correct data)
RFX433/BlindsT20_112201/set OPEN, CLOSE, STOP

12.9. 11.9. Screenline MQTT commands

(replace RFX433 and BlindsT13_17BD101 with the correct data)
RFX433/BlindsT13_7BD101/set OPEN, CLOSE, STOP
RFX433/BlindsT13_7BD101/tilt 0 - 180

12.10. 11.10. Novy MQTT commands

(replace RFX433 and Novy_A with the correct data)
RFX433/Novy_A/set Plus, Min, Power, Light, Mood

12.11. 11.11. Orcon MQTT commands

(replace RFX433 and Orcon_7b2951 with the correct data)
RFX433/Orcon_7b2951/set Away, Auto, Low, Medium, High, Timer1, Timer2, Timer3

12.12. 11.12. Itho MQTT commands

(replace RFX433 and Itho_7b2951 with the correct data)
RFX433/Itho_7b2951/set Standby, Low, Medium, High, Timer1, Timer2, Timer3

12.13. 11.13. Falmec MQTT commands

(replace RFX433 and Falmec_1235 with the correct data)
RFX433/Falmec_1235 /set Power, Speed1-Speed4, Timer1-Timer4, LightOn, LightOff

12.14. 11.14. Levante MQTT commands

(replace RFX433 and Levante_123E with the correct data)
RFX433/Levante_123E /set Power, Speed1-Speed4, Timer1-Timer4, LightOn, LightOff

12.15. 11.15. ACdim MQTT commands

(replace RFX433 and ACdim_003020101 with the correct data)
RFX433/ACdim_003020101/set ON, OFF
RFX433/ACdim_003020101/level/set 0 to 15

12.16. 11.16. ACmod MQTT commands

(replace RFX433 and ACmod_003020101 with the correct data)
RFX433/ACmod_003020101/set ON, OFF

12.17. 11.17. HEdim MQTT commands

(replace RFX433 and HEdim_003020101 with the correct data)
RFX433/HEdim_003020101/set ON, OFF
RFX433/HEdim_003020101/level/set 0 to 15

12.18. 11.18. HEmod MQTT commands

(replace RFX433 and HEmod_003020101 with the correct data)
RFX433/HEmod_003020101/set ON, OFF

12.19. 11.19. X10 MQTT commands

(replace RFX433 and X10mod_A01 with the correct data)
RFX433/X10mod_A01/set ON, OFF

12.20. 11.20. ARC MQTT commands

(replace RFX433 and ARC_C01 with the correct data)
RFX433/ ARC_C01/set ON, OFF

12.21. 11.21. IT MQTT commands

(replace RFX433 and IT_11221 with the correct data)
RFX433/IT_11221/set ON, OFF
RFX433/IT_11221/level/set 0 to 7

12.22. 11.22. Cotech MQTT commands

(replace RFX433 and Cotech_A01101 with the correct data)
RFX433/Cotech_A01101/set ON, OFF

12.23. 11.23. MCZ MQTT commands

(replace RFX433 and MCZ3_123456 with the correct data)

RFX433/MCZ3_123456/preset_mode Off, Manual, Auto, Eco
RFX433/MCZ3_123456/preset_fan1 0, 1, 2, 3, 4, 5, Auto

RFX433/MCZ3_123456/preset_fan2 0, 1, 2, 3, 4, 5, Auto
RFX433/MCZ3_123456/preset_fan3 0, 1, 2, 3, 4, 5, Auto
RFX433/MCZ3_123456/preset_power 1, 2, 3, 4, 5
RFX433/MCZ3_123456/mode/set ON, OFF
RFX433/MCZ3_123456/fan1/set ON, OFF
RFX433/MCZ3_123456/fan2/set ON, OFF
RFX433/MCZ3_123456/fan3/set ON, OFF
RFX433/MCZ3_123456/power/set ON, OFF
RFX433/MCZ3_123456/beep/set ON, OFF

12.24. 11.24. PT2262 MQTT commands

(replace RFX433 and PT2262_1A2B3C and pulse length 240 with the correct data)
RFX433/PT2262_1A2B3C/set - 240

12.25. 11.25. Funkbus MQTT commands

(replace RFX433 and FB_11223A1 with the correct data)

RFX433/FB_11223A1/set – Channel-
RFX433/FB_11223A1/set – Channel+
RFX433/FB_11223A1/cmndtime/set – 0.25

RFX433/FB_1122301/set – AllOn
RFX433/FB_1122301/set – AllOff
RFX433/FB_1122301/set – Scene
(the RFX will respond with RFX433/FB_1122301/cmndtime/set : 0.25 retained)
RFX433/FB_1122301/set – Master-
RFX433/FB_1122301/set – Master+
RFX433/FB_1122301/cmndtime/set – 0.5

13. 12. MQTT supported protocols

13.1. 12.1. RFX-433EMC MQTT supported protocols

Device	RFX-433EMC MQTT	Protocol
1byOne Driveway Alarm http://www.1byone.co.uk/Home-Security/Alarms/O00QH-0511		ByronSX
1byOne Easy Chime		ByronSX
1byOne QH A19 rev10 Chime		ByronSX
A-OK blind motors RF01 http://www.motorisationplus.com/	RT	BlindsT2
A-OK blind motors AC114,AC123,AC127,AC129, ZC11 - http://www.motorisationplus.com/	RT	BlindsT3
Aidebao security	R	Meiantech
Aldomo – http://www.aldomo.de/	RT	BlindsT6
Alecto – SA30, SA33 smoke detector	R	Oregon
Alecto – WS1100 (needs correction -40°C)		FineOffset
Alecto – WS1200		FineOffset
Alecto – WS1700 and compatibles, WS3500, WS4500	R	Rubicson
Alecto – WSD10	R	Rubicson
Alfawise – https://www.gearbest.com/ip-cameras/pp_1693842.html?wid=1214279		ByronSX
Ambient Weather	R	Oregon

Device	RFX-433EMC MQTT	Protocol
F007TH, WS14 pool sensor		
ANSLUT (learning mode)		AC
Aoke relay http://www.aliexpress.com/store/product/whose-sale-prices-DC12V10A-Learning-Code-Wireless-Remote-Control-Switch-System-1-Receiver-and-1-Transmitter/1211856_1774391429.html		Lighting5 Aoke or Lighting1 ARC
ASA ETR blind motors - http://www.asa-mingardi.org/en/home.php	T	RFY
ASP blind motors http://www.asp-distribution.com/site%20volet/voletrenovation.aspx	RT	BlindsT11
ATI Remote Wonder		ATI
ATI Remote Wonder Plus		ATI
ATI Remote Wonder II (only available in hardware version 1.0)		ATI
Atlantic security	R	Meiantech
Auriol H13726	R	Rubicson
Auriol Z31055B-TX	R	Rubicson
Avantek * receive Lighting4	RT	Lighting5 *Lighting4
Banggood – SKU174397	R	Rubicson
Banggood DANIU	R	Rubicson
Blyss lighting http://www.castorama.fr/store/Prise-telecommandee-et-telecommande-BLYSS---Interieur-prod4470026.html		AE
Blyss temperature/humidity 630467		AE
BOFU EYB25 EY1612 blind motors - http://www.bofumotor.com/	RT	BlindsT0
Brennenstuhl RCS2044N	RT	Lighting4
Brennenstuhl RC2044	RT	AC
Brel blind motors http://www.brel-motors.nl/webshop/motoren/	RT	BlindsT6
Brel bi-directional	T	DD27xx
Bresser Temeo Hygro, 7009981, 7009994, 7009997	R	Rubicson
BTX blind motors, remote, part# 490.2076 http://www.btxinc.com		BlindsT9
ByeByeStandBy		ARC
Byron BY chime		ByronSX
Byron DBY22321/23510		ByronSX
Byron DBY23711B/23712		ByronSX
Byron SX chime http://www.chbyron.eu/Byron/ByronSXRange/68/89/		ByronSX
Byron MP001 chime		Chime Byron MP001
Cartelectronic TIC, Encoder, Linky https://www.cartelectronic.fr/index.php?id_product=124&controller=product		ATI/cartelectronic
Casafan		Fan Casafan
CasaFan Eco Aviatos RH787T		Fan LucciAir DCII
cent-a-meter	R	Oregon
Chacon (learning mode) http://www.chacon.be/	RT	AC
Chacon (with address code wheels)	RT	ARC
Chacon EMW200		Lighting1 EMW200
Chacon 54660 (equal COCO GDR2)		Lighting1 COCO GDR2
Chacon KD101 smoke detector	RT	always on
Chamberlain CS4330CN http ://www.chamberlain24.de/epages/es122868.sf/en_GB/ ?ObjectPath=/Shops/es122868/Products/RA4336		BlindsT8
Cherubini ID can be 10 30 00 to 10 3F FF	RT	BlindsT18 (receive =BlindsTx + Keeloq)

Device	RFX-433EMC MQTT	Protocol
Chuango * decoded as X10	R	Lighting4
CoCo (learning mode) http://www.coco-technology.com/en/home/	RT	AC
CoCo (with address code wheels)	RT	ARC
CoCo GDR2 (equal Chacon 54660)		Lighting1 COCO GDR2
Confexx CNF24-2435		BlindsT12
Conrad RSL2 http://www.conrad.com/ce/en/product/640466/FUNK-STECKDOSENSCHALTER-RSLR2		RSL
Conrad RSL sensors		RSL
Conrad RSL2 motion/door-window sensors		RSL
Cotech Smarthome	RT	AC
Cotech weather sensor https://www.clasohlson.com/no/Ekstra-temperaturgiver-hygrometer/36-6726	R	Rubicson
Cranenbroek		Lighting1 Impuls
Cresta - TX-320, TS34C, anemometer, UV sensor, rain sensor	R	Hideki
Cuveo https://shop-m-e.de/produkte/cuveo-funk-system/?p=1		AE
dBell – https://www.webstore4ipcameras.nl/dbell_DB-HD-LIVE-B		ByronSX
DEA receivers (unencrypted) http://www.deasystem.com/en/accessory/7/receivers	R	KeeLoq
Digimax	R	X10
Digoo DG-R8H, DG-R8S https://www.banggood.com/Digoo-DG-R8H-433MHz-Wireless-Digital-Hygrometer-Thermometer-Weather-Station-Sensor-for-TH11300-8380-p-1178108.html		Rubicson
Digoo DG-SD10 self-powered doorbell	R	Lighting4
Digoo https://www.aliexpress.com/item/DIGOO-433MHz-New-Door-Window-Alarm-Sensor-for-HOSA-HAMA-Smart-Home-Security-System-Suit-Kit/32957905665.html	R	Lighting4 + Meiantech
DI.O (learning mode) http://www.di-o.be/	RT	AC
DI.O (with address code wheels)	RT	ARC
Dolat DLM-1 controlled motors http://www.dolat.com.cn/product1.asp?id=538		BlindsT10
DomiaLite (with address code wheels)	RT	ARC
Dooya blind motors, emulate remotes: DC305, DC306, DC307, DC313, DC1602, DC1650, DC1651, DC2700	RT	BlindsT6
Dooya bi-directional	T	DD27xx
Ebode	RT	X10
Electrisave	R	Oregon
ELRO AB400 http://www.elro.eu/en/products/cat/home-automation/home-control1	RT	Lighting4
ELRO AB600	RT	ARC
Ematronic RF01 http://www.ematronic.com/moteurs-volet-roulant/	RT	BlindsT2
Ematronic AC114, AC123 http://www.ematronic.com/moteurs-volet-roulant/	RT	BlindsT3
Eminent * decoded as X10	RT	Lighting4
Energenie https://energenie4u.co.uk/ - ENER010 – 429.935, 5-gang 429.950		Lighting1 Energenie Energenie5
Envivo – Chime ENV1348		Chime + Lighting4
ESMO blind motors	RT	BlindsT6
Etekcity – http://etekcity.com/p-300-5-pack-wireless-remote-control-outlet-switch-set-with-2-remote-controls-zap-5lx.aspx		Lighting1 Energenie5

Device	RFX-433EMC MQTT	Protocol
Eurodomest (NL – Action) * ARC only	RT	Lighting1 – ARC Or Lighting5 Eurodomest
EV1527	RT	Lighting4
Everflourish EMW100		Lighting5 EMW100
Falmec fan	T	Fan Falmec
Falmec Levante fan	T	Fan Falmec levante
Faro Barcelona fan – http://www.faro.es/		Fan LucciAir
Faro Barcelona DC fan For example : Airfusion Climate II 50 DC		Fan LucciAir DC
Faro Barcelona DCII fan For example : Airfusion Climate II 50 DC		Fan LucciAir DCII
Faher blinds motor	RT	BlindsT6
FineOffset – WH1285 (needs correction -40°C)	R	FineOffset
Flamingo	RT	Lighting4
Flamingo FA500D FA500DSS	T	IT
Flamingo KD101 smoke detector FA20RF, FA21RF, FA22RF	RT	always on
Flamingo Smartwares SF501	RT	AC
Focus	R	Meiantech
Forest blind/curtain motors http://www.forestgroup.nl/index_nl.html	T	BlindsT7
Froggit – F007TH	R	Oregon
FT1211R fan controller		Fan FT1211R
FunkBus(Gira, Jung, Insta, Berker)	RT	Funkbus
Gaposa QCTR ER motors 434.15MHz (US version on request)	RT	BlindsT17
Gaviota	RT	BlindsT6
Gaviota Elite bi-directional	T	DD27xx
Gazco heater RF290A		Mertik
Gumax	RT	BlindsT3
HAMA EWS1500	R	Rubicson
Harrison curtain http://www.harrison.nl/home2.htm		Curtain Harrison
Hasta new blind motors http://www.hasta.se/	RT	BlindsT0
Hasta old blind motors		BlindsT1
Hideki weather sensors	R	Hideki
Home Confort lighting http://www.home-confort.net/en		HomeConfort
HomeEasy EU (learning mode) http://www.elro.eu/en/products/cat/home-automation/	RT	HE EU
HomeEasy UK – HE105 - http://www.homeeasy.eu/		Thermostat2 HE105
HomeEasy UK (learning mode)	RT	AC
HomeEasy UK (with address code wheels)	RT	ARC
Honeywell - TF-ATS34C	R	Hideki
Housegard Origo smoke detector	RT	ARC
HQ COCO-20		Lighting1 HQ COCO20
Hualite blinds		BlindsT14
Hunter TX36 fan https://www.hunterfan.com/		Fan
Ikea Koppla		Lighting3
Impuls (NL – Action)		Lighting1 Impuls
inblindz – https://www.inblindz.nl/	T	BlindsT13
Inovalley SM80 with plant probes http://www.inovalley.com/detail.php?item_id=289	R	Rubicson
Intertechno (learning mode) http://www.intertechno.at/	RT	AC

Device	RFX-433EMC MQTT	Protocol
Intertechno (with address code wheels)	RT	ARC
JVS screens http://www.screen-discount.nl/	RT	BlindsT6
Jysk HUGLO	RT	BlindsT6
Kambrook RF3672 – http://www.bunnings.com.au/kambrook-4-piece-indoor-powerpoint-kit-with-remote-control_p7030054		Lighting2 Kambrook
Keeloq (unencrypted)	R	KeeLoq
Kerui security * decoded as X10 https://www.aliexpress.com/item/433-MHz-Wireless-Door-Windows-Sensors-for-KERUI-Alarm-System-Magnetic-Door-Sensor-Door-Open-reminder/32590916896.html	R	Lighting4 + X10*
Kerui siren xx xx x8 = on, xx xx x2 = off	T	Lighting4
Kimex projection screen https://www.kimexinternational.com/A-9162-ecran-de-projection-electrique-encastrable-3-00-x-1-69m-format-16-9.aspx	RT	BlindsT3
Kingpin KP100 projection screen	T	Lighting4
KlikAanKlikUit (learning mode) http://www.klikaanklikuit.nl/home/	RT	AC
KlikAanKlikUit (with address code wheels)	RT	ARC
La Crosse - TX2, TX3, TX3P, TX4, TX7, TX17, WS2300	R	LaCrosse
La Crosse - rain sensor TX145R	R	Hideki
La Crosse - weather WS1652 - temp/hum TX141TH-Bv2, TX141W	R	LaCrosse
Legrand CAD radio		Lighting5 LeGrand CAD
Lexibook - SM883	R	Hideki
LightwaveRF - http://www.lightwaverf.co.uk/		AD
Livolo - http://www.livolonederland.nl/ - http ://www.livolo-France.com/fr/ - http ://nl.aliexpress.com/w/wholesale-livolo-touch-switch.html	RT	Lighting5 Livolo
Louvolite one touch motorised blinds (R1942 remote)	RT	BlindsT0
Louvolite one touch Vogue vertical blinds (1144 remote)	RT	BlindsT0
Lucci Air fan https://www.beaconlighting-europe.com/product-category/lucci-air-deckenventilatoren/		Fan LucciAir
Lucci Air DC fan For example : Airfusion Climate II 50 DC		Fan LucciAir DC
Lucci Air DCII fan For example : Airfusion Climate II 50 DC		Fan LucciAir DCII
Luxaflex –http://www.luxaflex.se/produkter/luxaflex/rullgardiner/	T	RFY
Maplin http ://www.maplin.co.uk/p/remote-controlled-mains-socket-set-single-n78ka		Lighting1 COCO GDR2
Marquant 943134		X10
Maverick ET-732/733 BBQ/Smoke temperature	R	Hideki
MCZ pellet stove		Thermostat4
Mdremote LED dimmer V106 www.ultraleds.co.uk		Lighting5 MDRemote V106
Mdremote LED dimmer V107 www.ultraleds.co.uk		Lighting5 MDRemote V107
Mdremote LED dimmer V108, EKAB-10KRF http://www.ledstripkoning.nl/accessoires/dimmers-wit/draadloze-dimmer-10-knops-rf/		Lighting5 MDRemote V108
Meade – TS33F-M, TS34C-M http://www.meade.com/products/weatherstations/sensors.html	R	Hideki
Media Mount Projector screen		Lighting4
Meiantech security	R	Meiantech

Device	RFX-433EMC MQTT	Protocol
Mercury appliance modules http://mercury.avsl.com/product?range=ME5124		Lighting1 Energenie5
Mertik Maxitrol Fire Place controllers - G6R-H4T1, G6R-H4T5, G6R-H4TD, G6R-H4T16, G6R-H4TB, G6R-H4T21-Z22	RT	Mertik
Mertik Maxitrol Fire Place controller – G6R-H3T1		Mertik
Mertik Maxitrol Fire Place controller – G6R-H4S	T	Mertik
Meteoscan W155,W160	R	Rubicson
mhz.de bi-directional	T	DD27xx
Monaco – https://www.airam.fi/en/product/v8305-2988/7020500/monaco-wireless-doorbell-230v/140/1		Chime + Lighting4
Motionblinds bi-directional	T	DD27xx
Motiva blinds, remote BY-305	RT	BlindsT0
Motolux blinds motor	RT	BlindsT3
Motostar blinds		BlindsT15
mi.sol WH2 http://www.ebay.com/itm/Transmitter-for-Wireless-Weather-Station-wireless-temperature-sensor-/121664060899	R	FineOffset
NEXA (learning mode) - http://www.nexa.se/	RT	AC
NEXA (with address code wheels)	RT	ARC
NEXA KD101/LM101LC smoke detector	RT	always on
Nexa NBA-001 temperature sensor	R	Hideki
NEXUS - I008T	R	Hideki
Nobily rolladenmotor http://www.nobily.de/rolladenmotor/funk-elektronisch/40mm-achtkantwelle/170/nobily-rolladenmotor-pre4?c=5	RT	BlindsT6
Novy extractor hood https://www.novynederland.nl/	RT	Fan
Oase Inscenio FM Master		Lighting1 Oase
Omnia Go blinds https://omniablinds.com/	RT	BlindsT6
Opus XT300 /Imagintronix Soil sensor http://www.plantcaretools.com/en/webshop/wireless-moisture-sensor-en-detail http://www.ebay.co.uk/itm/Wireless-Soil-Moisture-Sensor-/251380900939 ?pt=UK_Home_Garden_Garden_Plants_Fertiliser_CV&hash=item3a8778244b		Fineoffset
ORNO	RT	AC
Oregon Scientific / Huger BBQ and weather sensors - AW129, AW131, BTHGN129, BTHR918, BTHR918N, BTHR968, EW109, PCR800, RGR126, RGR682, RGR918, RGR928, RTGN318, RTGR328N, RTGR328N, RTGR368N, RTGR383, RTHN318, STR918, STR928, ,THGN800, THGN801, THC138, THC238, THC268, THGN122NX, THGN123N, THGN132ES, THGN132N, THGN500, THGR122(N/NX), THGR228(N/NF), THGR238, THGR268, THGR328N, THGR810, THGR918, THGR928, THGRN228NX, THN122N, THN129, THN132N, THR128, THR138, THR288(N/NF), THRN122N, THWR288A, THWR800, UV138, UVN128, UVN800, UVR128, WGR800, WGR918, WTGR800, WTGR800	R	Oregon
Oregon Scientific weighting scales - BWR101, BWR102	R	Oregon
Oregon MSR939 https://www.redealer.de/multimedia/home-living/wetterstationen/bewegungssensor-msr939/a-200667/	R	Oregon
OTIO EHS5050		RSL
OTIO Lighting		RSL
Outlook Motion Blinds https://www.spotlightstores.com/curtains-blinds/indoor-blinds/roller-blinds/project-outlook-motion-motorised-roller-blind/p/BP80360543	RT	BlindsT4
OWL – CM113	R	Oregon
OWL – CM119, CM160, CM180, CM180i http://www.theowl.com/	R	Oregon
Ozroll E-Trans	RT	BlindsTx
Pearl NC-7159 http://www.pearl.de/a-NC7159-3041.shtml		Rubicson
Phenix	RT	Lighting4

Device	RFX-433EMC MQTT	Protocol
Philips SBC SP370 series		Lighting1 Philips SBC
Prego P-8426 http://www.sunmarket.fi/tuote.asp?TID=11990		Rubicson
Profile Qnect 423000040,423000042	RT	AC
Profiles PAC-326R Belcanto		ByronSX
Profitec KD310T https://akkuplus.de/profitec-KD-310-T-Energiekosten-Messgeraet-Sender		RSL
Proluxx projection screen	T	Lighting4
PROmax	T	IT
Proove –TSS320 & TSS330 fridge/freezer thermometer & outdoor sensors 311346,311501	R	FineOffset
PT2262	RT	Lighting4
Quigg RC DS5 4001-A DE 3726	RT	AC
Quinetic		Quinetic
Quotidom – http ://www.quotidom.com/moteur-tubulaire-radio-quotidom-10-ou-20-nm-volet-roulant-ou-store-banne.html (not the Solutio version)	RT	BlindsT6
RAEX blind motor (YR1326 or YRL2016 controlled)	RT	BlindsT4
Rain sensor - https://nl.aliexpress.com/item/4000761757290.html	RT	BlindsT3
RAW data		undec on
Renkforce RF101 smoke detector		always on
Renkforce FT007TH	R	Oregon
Revolt NC5461 http://www.pearl.de/a-NC5462-5452.shtml		RSL
RFXSensor	R	X10
RFXMeter	R	X10
RGB LED strip driver dx.com - http://www.dx.com/ order nbr: 130913, **(new TRC02 NOT supported)** - http://www.dx.com/ order nbr: 67412 * = receive only in Type2 used to get the RGB remote ID.		AD
RGB432W LED controller		Lighting5 RGB432W
RisingSun	RT	Lighting4
RUBiCSON - stektermometer 48659, 48695 -pool sensor p48019	R	Rubicson
RohrMotor24 RMF blind motors http://www.rohrmotor24.eu/rohrmotor24	RT	BlindsT6
RollerTrol R-series blind motors - http://rollertrol.com/	RT	BlindsT0
Rollertrol G-series blind motors	RT	BlindsT6
Sartano	RT	Lighting4
SAS SA-200 smoke detector		always on
Screenline motors - http://www.screenline.cz/en/ Remote- SL2392S159 - Pellini	T	BlindsT13
SEAV TXS4		FAN SEAV TXS4
SelectPlus200689101 & SelectPlus200689103 (Action NL)		ByronSX
Siemens SF01 LF959RA50/LF259RB50/LF959RB50 extractor hood		Homeconfort,Fan SF01
Siemens (UK)		AD
SilverCrest 91089	RT	Lighting4
SilverCrest 60494, 284705	RT	AC
Silverline Premium - http://www.aluparts.nl	RT	BlindsT6
Simu Hz / RTS -http://www.simu.com/	T	RFY
Siro	RT	BlindsT6
Smartwares radiator valve http://www.homewizard.nl/smartwares-draadloze-radiatorkraan.html		Radiator1 Smartwares
Smartwares RM174RF, RM175RF, SA41	RT	Lighting4
Somfy / RTS http://www.somfy.co.uk/ To control Somfy Centralis use RFY2 commands.	T	RFY

Device	RFX-433EMC MQTT	Protocol
Sonoff RF	RT	Lighting4
Sunpery blind motors		BlindsT9
Sunvic TLX1206	R	X10
Sunvic TLX7506	R	X10
TechnoLine/ProficeII http://www.elv.de/output/controller.aspx?cid=74&detail=10&detail2=27621 - TX95-TH, WS9180-TX104	R	Rubicson
Telldus 312716,313159,313160 https://www.lohelectronics.se/hemautomation/433mhz/sensorer-1110/smart-inne-och-utetermometer-med-hygrometer-10396	R	FineOffset
TFA external temperature / humidity TS15C, TS34C, 30.3245.02, 30.3139 anemometer 30.3133, UV sensor 30.3149, rain sensor 30.3148, 30.3233, 30.3252 pool sensor 30.3160	R	Hideki
TFA - pool sensor 30.3056.10, 30.3216.20 - external temperature sensor 30.3208.02 - temperature sensor 30.504554	R	Oregon
TFA - weather Pro 35.1161.01 - temp/hum 30.3249.02, 30.3221.02 - anemometer 30.3222.02, 30.3251.10	R	LaCrosse
TFA - temp/hum 30.3247.02	R	Rubicson
TUBE roller motor	T	RFY
UPM/Esic (very short receiving range) WT260,WT260H,WT440H,WT450,WT450H,WDS500, RG700	R	Hideki
Unitec 48110 EIM 826	RT	AC
Ventus WS155	R	Rubicson
Viking - 02035, 02038, 02811	R	FineOffset
Visonic CodeSecure	R	Visonic
Visonic PowerCode	R	Visonic
Wave Design extractor hood		Fan SF01
Waveman		Lighting1 Waveman
Westinghouse fan 7226640		Fan
WT0122 pool sensor	R	FineOffset
YOODA blind motors http://www.sukcesgroup.pl	RT	BlindsT6
Yooda bi-directional	T	DD27xx
X10 Ninja/Robocam		X10
X10 PC Remote		X10
X10 RTS10 / RFS10		X10
X10 lighting	RT	X10
X10 security	R	X10
Xdom	R	X10
Xiron – EN6	R	Rubicson

13.2. 12.2. RFX-868 MQTT supported protocols

Protocol	RFX-868 MQTT	Protocol
Alecto ACH2010	R	Alecto ACH2010

Alecto WS5500, FineOffset WH2900, Ventus W830	R	FineOffset
Davis Vantage Vue EU *	R	Davis EU
Ecowitt WH31,WN32,WH40,WH51,WH57,WS69,WS90,WH5360	R	FineOffset
Edisio	RT	Edisio
FS20	-	FS20
Gaposa QCTX rollermotor	RT	Gaposa
Honeywell ActiveLink	RT	Honeywell
Itho CVE RFT	-	Itho CVE RFT
Itho CVE ECO RFT	RT	Itho CVE ECO RFT
Keeloq (unencrypted part only)	R	Keeloq
Mi-Sol WH2900C	R	FineOffset
Orcon	RT	Orcon
Visonic CodeSecure (unencrypted part only)	R	Visonic
Visonic PowerCode	R	Visonic

* based on information available madscientistlabs.blogspot.com
Important: it is only possible to enable one protocol for receive in the RFX-868 because of the used transmission techniques at 868MHz.

14. 13. FAQ

14.1. 13.1. Network connection not found

The RFX is delivered with USB software flashed.
Flash WiFi or MQTT software.
The red LED will stay on to indicate that the RFX is in Access Point mode.
Follow the instructions in chapter **Configure the RFX WiFi transceiver**.

15. 14. USB not found

Are the correct USB drivers installed?
See chapter **USB**.
Try another USB cable.

15.1. 14.1. Firmware Manager reports Not checked

Open /firmware and press Check now. Verify that the RFXCOM has a working network connection. The automatic check is normally performed about one minute after startup and then every six hours.

15.2. 14.2. Firmware Manager does not offer an update

The Firmware Manager checks the exact product and firmware variant. If the installed version is already current, no newer installation is offered. If you intentionally need a specific official firmware file, use /update.

15.3. 14.3. Web server does not open after WiFi setup

Verify that all required WiFi and MQTT fields are completed. For DHCP, Local IP, Subnet mask and Gateway must all be empty; for a static configuration, all three must be filled. Connect RFXCOM Terminal at 115200 8N1 and inspect the startup messages for WiFi, IP and MQTT errors.

15.4. 14.4. Poor or unstable WiFi connection

Check the RSSI value and signal indicator in the web interface. A less negative value means a stronger signal. If the value is weak, reduce distance to the access point, improve access-point placement or reduce local interference.

15.5. 14.5. Repeated MQTT reconnects

Check that every RFXCOM uses a different Hostname/MQTT Client name. Duplicate MQTT client names can disconnect each other repeatedly.

16. 15. Warning:

- RF signals are possible disturbed, and it has not been justified for this equipment at uses in circumstances where life-threatening or dangerous situations are possible.
- RFXCOM HARDWARE AND SOFTWARE IS NOT INTENDED FOR USE IN THE OPERATION OF NUCLEAR FACILITIES, AIRCRAFT NAVIGATION OR COMMUNICATION SYSTEMS, AIR TRAFFIC CONTROL SYSTEMS, LIFE SUPPORT MACHINES OR OTHER EQUIPMENT IN WHICH THE FAILURE OF THE SOFTWARE COULD LEAD TO DEATH, PERSONAL INJURY, OR SEVERE PHYSICAL OR ENVIRONMENTAL DAMAGE.

17. 16. License

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19. 18. Revision history

Version 4.05 - August 2026: replaced the legacy WiFi settings illustration with the current RFXCOM WiFi Setup page; corrected the contents navigation to remove broken bookmark references; refreshed WiFi/MQTT setup instructions.
Version 4.04 - August 29, 2026
Complete consolidated English guide. Added built-in Firmware Manager at /firmware with automatic update checking and one-click confirmed installation; updated manual /update page; added /network configuration; WiFi status/RSSI signal indicator; updated MQTT

Device Information/Status; corrected MQTT IP_Address field; added MQTT origin information; retained all previous setup, W5500 LAN, Home Assistant, Domoticz, RFX-P1, manual device, command, Mertik, protocol, FAQ, warning, license and revision-history content.

Version 0.00 – August 1, 2025
- Initial version.

Version 0.01 – August 8, 2025
- Manually add Somfy, Cherubini, AC devices.

Version 1.00 – August 10, 2025
- MQTT supported protocols added

Version 1.01 – August 19, 2025
- RFXCOM Terminal program added
- Hostname also used as MQTT Client name.

Version 1.02 – August 20, 2025
- Falmec, Falmec Levante added
- Novy added

Version 1.03 – August 22, 2025
- Cotech, Kangtai added
- Forest BlindsT7 added

Version 1.04 – August 27, 2025
- Screenline added
- Harrison added

Version 1.05 – August 28, 2025
- RFX-868 MQTT supported protocols added
- X10, RFXSensor, RFXmeter added

Version 1.06 – August 30, 2025
- HomeEasy EU added

Version 1.07 – September 9, 2025
- TFA 30.3252.01 rain sensor added
- MCZ added

Version 1.08 – September 15, 2025
- BlindsT0, BlindsT2, BlindsT3 added

Version 1.09 – September 30, 2025
- How to add Orcon
- Gaposa EU/US version selection
- MQTT log to USB selection added
- Novy ID changed

Version 1.10 – October 14, 2025
- Itho added

Version 1.11 – October 25, 2025
- CM113, CM119, CM160, CM180, CM180i added

Version 1.12 – October 29, 2025
- Livolo added

Version 1.13 – November 11, 2025
- RFX-868 Edisio added

Version 1.14 – November 25, 2025
- MQTT PT2262/EV1527 added

Version 2.00 – January 15, 2026
- ASA added
- BWR101/102 added
- W5500 LAN added
- Chapter FAQ added
- ARC added
- IT (FA500,PROmax) added
- ListIDS command added

Version 2.01 – February 25, 2026
- Somfy reversed added
- Quick start updated

Reax added
FunkBus(Gira, Jung, Insta, Berker) added
Renkforce FT007TH added

Version 2.02 – March 1, 2026
MQTT commands send by Home Assistant added
Version 2.03 – March 13, 2026
MQTT commands send moved to chapter 11
Version 2.04 – March 30, 2026
Configure W5500 LAN updated
Version 2.05 – March 31, 2026
RFX-433 Web Server page updated
Version 3.00 – April 29, 2026
Network and MQTT config changed
Version 3.01 – May 9, 2026
TUBE roller motor added
Version 4.00 – August 26, 2026
Mertik added
OTA flash update added
Web config pages updated