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TÉLÉCOMMANDE

DOCUMENTATION TECHNIQUE

Interface USB émetteur RFXCOM USB RFX433

Retrouvez les instructions, schémas et réglages de votre équipement dans les pages suivantes.

Avant toute manipulation

Vérifiez la référence exacte de votre appareil. Les instructions techniques et les avertissements du fabricant restent prioritaires. En cas de doute ou pour une intervention électrique, faites appel à un professionnel qualifié.

Une question sur votre référence ?

declictelecommande.com/contact

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Les marques et références des fabricants sont conservées dans la notice.

RFXtrx
USB RF transceiver
Manuel Utilisateur



www.rfxcom.com

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2. Informations générales sur le Transceiver RFXtrx

Le transceiver RFXtrx et le récepteur RFXrec communique avec l'application PC par l'intermédiaire d'un port USB. Le port USB sert aussi à alimenter les modules RFXtrx/rec.
Au démarrage, le RFXtrx entre dans l'état Bootloader pendant 2 secondes (la led est rouge fixe), puis il passe automatiquement en mode émetteur/récepteur RF.
Si des paquets valident sont reçus, la led jaune clignote.
Le RFXtrx315 et le RFXrec433 sont principalement utilisés pour les US. RFXtrx315 permet la réception de signaux X10 US (standard et sécurisé) OU les signaux Visonic PowerCode en fréquence 315Mhz
Le RFXtrx433 permet la réception de signaux de différentes marques de station météo en 433.92Mhz. Le RFXtrx433 est un transceiver (émetteur et récepteur), il permet de contrôler une large gamme de capteurs et de périphériques radio en 433.92Mhz
Le RFXtrx433E est une version étendu du transceiver RFXtrx433 with additional memory and non-volatile memory for Somfy RTS codes and configuration settings.
The RFXtrx433XL is the next generation version with double size memory and a serial connection for the Dutch and French smart meters.

2.1. RFXtrx315 liste des protocoles supportés

2.1.1. RFXtrx315 configured for 310MHz

Protocol	Enable	receive	transmit
US X10 lighting	X10	Y	Y
US X10 security	X10	Y	Y

2.1.2. RFXtrx315 configured for 315MHz

Protocol	Enable	receive	transmit
Aoke relay	-	-	Y
PT2262, EV1527 and compatibles	Lighting4	Y	Y
Visonic CodeSecure	-	planned	-
Visonic PowerCode	Visonic	Y	Y

2.1.3. RFXtrx868X and RFXtrx868XL liste des protocoles supportés

Protocol	Protocol	receive	transmit
Alecto ACH2010	Alecto ACH2010	Y	-
Alecto WS5500, FineOffset WH2900, Ventus W830	Alecto WS5500	Y	-
Davis Vantage Vue EU *	Davis EU	Y	-
Edisio	Edisio	Y	Y
FS20	FS20	Y	Y
Itho CVE RFT	Itho CVE RFT	-	Y
Itho CVE ECO RFT	Itho CVE ECO RFT	Y	Y
Keeloq (unencrypted part only)	Keeloq	Y	Y
Orcon	Orcon	Y	Y
Visonic CodeSecure (unencrypted part only)	Visonic	Y	-
Visonic PowerCode	Visonic	Y	-

* based on information available at: wxforum.net – "Implementing a Si1000 based wireless receiver for Davis ISS data" and madscientistlabs.blogspot.com

Important: it is only possible to enable one protocol for receive in the RFXtrx868X and RFXtrx868XL because of the used transmission techniques at 868MHz.

2.2. RFXrec433, RFXtrx433, RFXtrx433E, RFXtrx433XL liste des protocoles supportés

2.2.1. By function

Curtains, shades, projection screen, awning, gate openers
A-OK blind motors (RF01,AC114,AC123,AC127,AC129 controlled) - http://www.motorisationplus.com/
Aldomo - http://www.aldomo.de/
ASA ETR blind motors - http://www.asa-mingardi.org/en/home.php
ASP blind motors - http://www.asp-distribution.com/site%20volet/voletrenovation.aspx
BOFU EYB25 EY1612 blind motors - http://www.bofumotor.com/
BTX blind motors, remote, part# 490.2076 – http://www.btxinc.com
Brel blind motors - http://www.brel-motors.nl/webshop/motoren/ Bi-Directional is not supported!
Chamberlain CS4330CN http://www.chamberlain24.de/epages/es122868.sf/en_GB/?ObjectPath=/Shops/es122868/Products/RA4336
Cherubini
Confexx CNF24-2435
Dolat DLM-1 controlled motors - http://www.dolat.com.cn/product1.asp?id=538
Dooya blind motors, remotes tested: DC305,DC306,DC307,DC313,DC1602,DC1650,DC1651,DC2700 Bi-Directional is not supported!
Ematronic - http://www.ematronic.com/moteurs-volet-roulant/
ESMO blind motors
Faher
Forest blind/curtain motors - http://www.forestgroup.nl/index_nl.html
Gaposa ER motors 434.15MHz - http://www.gaposa.it/eng/products/residential-motors
Harrison curtain – http://www.harrison.nl/home2.htm
Hasta blind motors - http://www.hasta.se/
inblindz - https://www.inblindz.nl/
JVS screens - http://www.screen-discount.nl/
Kimex projection screen - https://www.kimexinternational.com/A-9162-ecran-de-projection-electrique-encastrable-3-00-x-1-69m-format-16-9.aspx
Kingpin KP100 projection screen
Louvolite one touch motorised blinds
Luxaflex (RFXtrx433E and RFXtrx433XL) - http://www.luxaflex.se/produkter/luxaflex/rullgardiner/
Media Mount Projector screen
Motiva blinds, remote BY-305
Motolux - http://www.motolux.com.au/
Motostar blinds
Nobily rolladenmotor http://www.nobily.de/rolladenmotor/funk-elektronisch/40mm-achtkantwelle/170/nobily-rolladenmotor-pre4?c=5
Omnia Go blinds https://omniablinds.com/
Outlook Motion Blinds - https://www.spotlightstores.com/curtains-blinds/indoor-blinds/roller-blinds/project-outlook-motion-motorised-roller-blind/p/BP80360543
Ozroll E-Trans
Proluxx projection screen
Quotidom - http://www.quotidom.com/moteur-tubulaire-radio-quotidom-10-ou-20-nm-volet-roulant-ou-store-banne.html (not the Solutio version)
RAEX blind motor (YR1326 controlled)
RohrMotor24 RMF blind motors - http://www.rohrmotor24.eu/rohrmotor24
RollerTrol blind motors - http://rollertrol.com/
Screenline motors - http://www.screenline.cz/en/
Silverline Premium - http://www.aluparts.nl
Simu Hz (not BHz!) (RFXtrx433E and RFXtrx433XL only) – http://www.simu.com/
Siro - https://shop.siro-antrieb.de/shop-kategorie/elektrische-antriebe-fuer-innensonnenschutz/
Somfy (RFXtrx433E and RFXtrx433XL only) – http://www.somfy.co.uk/
Sunflower brand KT52E motorized Curtain track,Single track, DOOYA motor https://nl.aliexpress.com/item/motorized-Curtain-track-1m-3-3m-wide-Single-track-DOOYA-motor-the-top-motor-brand-in/1939622604.html
Sunpery blind motors
YOODA blind motors – http://www.sukcesgroup.pl

Temperature, humidity, weather sensors
Alecto – WSD10,WS1200, WS1700, WS3500, WS4500
Auriol – H13726
Ambient Weather - F007TH
Banggood – SKU174397 http://www.banggood.com/433MHz-Wireless-Weather-Station-Digital-Thermometer-Humidity-Sensor-p-965559.html
Blyss 630467
Bresser Temeo Hygro, 7009981,7009994, 7009997
Cresta
Digimax
Digoo DG-R8H DG-R8S
FineOffset WH1285
Froggit - F007TH
Hama – EWS1500
Hideki weather sensors
Honeywell – TF-ATS34C
Inovalley SM80 with plant probes - http://www.inovalley.com/detail.php?item_id=289
La Crosse
Lexibook – SM883
Marquant 943134
Maverick ET-732, ET-733 BBQ/Smoke temperature
Meade – TS33F-M, TS34C-M http://www.meade.com/products/weatherstations/sensors.html
Meteoscan – W155, W160
Nexa NBA-001
NEXUS – I008T
mi.sol WH2 http://www.ebay.com/itm/Transmitter-for-Wireless-Weather-Station-wireless-temperature-sensor-/121664060899
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
Oregon Scientific / Huger
Pearl NC-7159 http://www.pearl.de/a-NC7159-3041.shtml
Prego P-8426 http://www.sunmarket.fi/tuote.asp?TID=11990
Proove –TSS320 & TSS330 fridge/freezer thermometer & outdoor sensors 311346,311501
RFXSensor
RUBiCSON – stektermometer 48659, 48695 -pool sensor p48019
Sunvic TLX1206
Sunvic TLX7506
TechnoLine/Proficell http://www.elv.de/output/controller.aspx?cid=74&detail=10&detail2=27621 - TX95-TH, WS9180-TX104
Telldus Thermo/Hygro sensors 313159 and 313160 https://www.lohelectronics.se/hemautomation/433mhz/sensorer-1110/smart-inne-och-utetermometer-med-hygrometer-10396
TFA
UPM/Esic (very short receiving range)
Ventus – WS155
Viking
WT0122 pool thermometer
Xiron –EN6

Door/window, smoke and other security sensors
Aidebao security
Alecto – SA30, SA33, SA41 smoke detector
AliExpress sensors with EV1572 or PT2262 (PT2262 is preferred)
Atlantic security
Chacon KD101 smoke detector
Chuango security
Digoo - https://www.aliexpress.com/item/DIGOO-433MHz-New-Door-Window-Alarm-Sensor-for-HOSA-HAMA-Smart-Home-Security-System-Suit-Kit/32957905665.html
Eminent security
Flamingo KD101 smoke detector FA20RF, FA21RF, FA22RF
Focus
Housegard Origo smoke detector
Kerui security https://www.aliexpress.com/item/433-MHz-Wireless-Door-Windows-Sensors-for-KERUI-Alarm-System-Magnetic-Door-Sensor-Door-Open-reminder/32590916896.html
Meiantech security
NEXA KD101/LM101LC smoke detector
Renkforce RF101 smoke detector
SAS SA-200 KD101 smoke detector
Smartwares RM174RF, RM175RF smoke detector
Oregon MSR939 https://www.redealer.de/multimedia/home-living/wetterstationen/bewegungssensor-msr939/a-200667/
Visonic CodeSecure
Visonic PowerCode
X10 security

Appliance modules, dimmers, relays, LED controllers
ANSLUT (learning mode)
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
Avantek
ByeByeStandBy
Blyss lighting – http://www.castorama.fr/store/Prise-telecommandee-et-telecommande-BLYSS---Interieur-prod4470026.html
Brennenstuhl RC2044, RCS2044N
Chacon – http://www.chacon.be/
CoCo – http://www.coco-technology.com/en/home/
Conrad RSL2 – http://www.conrad.com/ce/en/product/640466/FUNK-STECKDOSENSCHALTER-RSLR2
Cotech Smarthome
Cranenbroek
DI.O – http://www.di-o.be/
DomiaLite
Ebode
ELRO AB400/AB600 – http://www.elro.eu/en/products/cat/home-automation/home-control1
Energenie ENER010 – 429.935, 5-gang 429.950 - https://energenie4u.co.uk/
Etekcity –http://etekcity.com/p-300-5-pack-wireless-remote-control-outlet-switch-set-with-2-remote-controls-zap-5lx.aspx
Eurodomest NL – Action
Everflourish EMW100
Flamingo
Flamingo FA500D FA500DSS
Flamingo Smartwares SF501
FunkBus (Gira, Jung, Insta, Berker)
Home Confort – http://www.home-confort.net/en
HomeEasy EU – http://www.elro.eu/en/products/cat/home-automation/
HomeEasy UK (including HE105 relay) – http://www.homeeasy.eu/
HQ COCO-20
Ikea Koppla
Impuls – NL – Action

Intertechno – http://www.intertechno.at/
Kambrook RF3672 – http://www.bunnings.com.au/kambrook-4-piece-indoor-powerpoint-kit-with-remote-control_p7030054
KlikAanKlikUit – http://www.klikaanklikuit.nl/home/
Legrand CAD radio – http://docdif.fr.grpleg.com/general/legrand-fr/NP-FT-GT/FA181DFR.pdf
LightwaveRF – http://www.lightwaverf.co.uk/
Livolo - http://www.livolo-france.com/fr/ http://nl.aliexpress.com/w/wholesale-livolo-touch-switch.html
Maplin http://www.maplin.co.uk/p/remote-controlled-mains-socket-set-single-n78ka (use Lighting1 – COCO GDR2)
MDremote LED dimmer V106, V107, V108, EKAB-10KRF - www.ultraleds.co.uk - http://www.ledstripkoning.nl/accessoires/dimmers-wit/draadloze-dimmer-10-knops-rf/
Mercury appliance modules – http://mercury.avsl.com/product?range=ME5124
NEXA – http://www.nexa.se/
ORNO
OTIO
Phenix
Philips SBC SP370 series
Profile Qnect 423000040,423000042
PROmax
Proove - http://proove.se/
Quigg
RGB LED strip driver dx.com - http://www.dx.com/ order nbr: 130913 **(new TRC02 not supported)** , 67412
RisingSun
Sartano
Siemens (UK)
SilverCrest 91089, 60494, 284705
Unitec 48110 EIM 826
Waveman
X10 RTS10 / RFS10
X10 lighting
Xdom

Remotes
ATI Remote Wonder
ATI Remote Wonder Plus
ATI Remote Wonder II
SEAV TXS4
X10 PC Remote

Chimes
1byOne Easy Chime
Alfawise - https://www.gearbest.com/ip-cameras/pp_1693842.html?wid=1214279
Byron SX and BY chime - http://www.chbyron.eu/Byron/ByronSXRange/68/89/
Byron MP001
Chacon
dBell - https://www.webstore4ipcameras.nl/dbell_DB-HD-LIVE-B-W
Envivo – ENV1348
HomeEasy
KlikAanKlikUit
Monaco - https://www.airam.fi/en/product/v8305-2988/7020500/monaco-wireless-doorbell-230v/140/1
Profiles PAC-326R Belcanto
SelectPlus200689101 & SelectPlus200689103 (Action NL)

Power, gas water metering
Cartelectronic TIC, Encoder, Linky - https://www.cartelectronic.fr/index.php?id_product=124&controller=product
cent-a-meter
Electrisave
OTIO EHS5050
OWL CM113, CM180, CM119, CM160, CM180, CM180i - http://www.theowl.com/
Revolt NC5461 - http://www.pearl.de/a-NC5462-5452.shtml
RFXMeter

Specials
1byone Wireless Home Security Driveway Alarm http://www.1byone.co.uk/Home-Security/Alarms/O00QH-0511
CasaFan
DEA receivers http://www.deasystem.com/en/accessory/7/receivers (unencrypted only)
Hunter fan
Lucci Air Fan - https://www.beaconlighting-europe.com/product-category/lucci-air-deckenventilatoren/
MCZ pellet stove
Mertik Maxitrol – Fire Place controllers
Novy extractor hood
Oregon Scientific Body weight scales – BWR101, BWR102, GR101
Prego P-8426 – sauna temperature sensor http://www.sunmarket.fi/tuote.asp?TID=11990
Smartwares radiator valve http://www.homewizard.nl/smartwares-draadloze-radiatorkraan.html
Siemens SF01 - LF959RA50/LF259RB50/LF959RB50 extractor hood
Wave Design extractor hood
X10 Ninja/Robocam – camera motor

2.2.2. Alphabetic list

Important notes:

- Ext, Ext2, Pro1 and Pro2 firmware can only be used in the RFXtrx433E!
- ProXL1, ProXL2 firmware can only be used in the RFXtrx433XL!
- RFXrec firmware is equal to RFXtrx433 – Type1 firmware without the transmit functions.
- Protocol enabling is only necessary for receive. Transmit protocols are always enabled.
- R = Receive only
- T = Transmit only
- RT = Receive & Transmit

Device	Type 1	Type 2	Ext	Ext 2	Pro 1	Pro 2	ProXL 1	ProXL 2	Protocol
1byOne Driveway Alarm http://www.1byone.co.uk/Home-Security/Alarms/O00QH-0511		RT	RT	RT	RT	RT	RT	RT	ByronSX
1byOne Easy Chime		RT	RT	RT	RT	RT	RT	RT	ByronSX
1byOne QH A19 rev10 Chime							RT	RT	ByronSX
A-OK blind motors RF01 http://www.motorisationplus.com/	RT	RT		RT	RT	RT	RT		BlindsT2
A-OK blind motors AC114,AC123,AC127,AC129, ZC11 - http://www.motorisationplus.com/	RT	RT		RT	RT	RT	RT		BlindsT3
Aidebao security	RT	RT	RT	RT	R	R	R	R	Meiantech
Aldomo – http://www.aldomo.de/	T	T	T	T	RT	RT	RT		BlindsT6
Alecto – SA30, SA33, SA41 smoke detector	RT		RT		RT		RT	RT	Oregon
Alecto – WS1100 (needs correction -40°C)	R	R	R	R	R	R	R	R	FineOffset
Alecto – WS1200	R*	R*	R*	R*	R	R	R	R	*LaCrosse Pro = FineOffset
Alecto – WS1700 and compatibles, WS3500, WS4500			R	R	R	R	R	R	Rubicson
Alecto – WSD10				R	R	R	R	R	Rubicson
Alfawise – https://www.gearbest.com/ip-cameras/pp_1693842.html?wid=1214279							RT	RT	ByronSX
Ambient Weather F007TH, WS14 pool sensor				R	R	R	R	R	Oregon
ANSLUT (learning mode)	RT	RT	RT	RT	RT		RT	RT	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	RT	RT	RT	RT	RT		RT	RT	Lighting5 Aoke or Lighting1 ARC
ASA ETR blind motors - http://www.asa-mingardi.org/en/home.php			T	T	T	T	T	T	RFY
ASP blind motors http://www.asp-distribution.com/site%20volet/voletrenovation.aspx	RT	RT		RT	RT	RT	RT		BlindsT11
ATI Remote Wonder	R								ATI
ATI Remote Wonder Plus	R								ATI
ATI Remote Wonder II (only available in hardware version 1.0)	R								ATI
Atlantic security	RT	RT	RT	RT	RT	RT	RT	RT	Meiantech
Auriol H13726			R	R	R	R	R	R	Rubicson
Auriol Z31055B-TX				R	R	R	R	R	Rubicson
Avantek * receive Lighting4			RT	RT	RT	RT	RT	RT	Lighting5 *Lighting4
Banggood – SKU174397			R	R	R	R	R	R	Rubicson
Banggood DANIU			R						Rubicson
Blyss lighting	RT	RT	RT		RT		RT	RT	AE

Device	Type 1	Type 2	Ext	Ext 2	Pro 1	Pro 2	ProXL 1	ProXL 2	Protocol
http://www.castorama.fr/store/Prise-telecommandee-et-telecommande-BLYSS---Interieur-prod4470026.html									
Blyss temperature/humidity 630467	R	R	R				R	R	AE
BOFU EYB25 EY1612 blind motors - http://www.bofumotor.com/ * = receive in Type2 only used to get the remote ID.	T	RT	T	T	T		RT		BlindsT0
Brennenstuhl RCS2044N	RT	RT	RT	RT	RT	RT	RT	RT	Lighting4
Brennenstuhl RC2044				RT	RT		RT	RT	Lighting4 + AC Pro = AC
Brel blind motors http://www.brel-motors.nl/webshop/motoren/ Bi-Directional is not supported!	T	T	T	T	RT	RT	RT		BlindsT6
Bresser Temeo Hygro, 7009981, 7009994, 7009997							R	R	Rubicson
BTX blind motors, remote, part# 490.2076 http://www.btxinc.com		T					T		BlindsT9
ByeByeStandBy	RT	RT	RT				RT	RT	ARC
Byron BY chime					RT		RT	RT	ByronSX
Byron DBY-23711B							RT	RT	ByronSX
Byron SX chime http://www.chbyron.eu/Byron/ByronSXRange/68/89/	RT	RT	RT	RT	RT	RT	RT	RT	ByronSX
Byron MP001 chime			T	T			T	T	Chime Byron MP001
Cartelectronic TIC, Encoder, Linky https://www.cartelectronic.fr/index.php?id_product=124&controller=product		R		R	R	R	R	R	ATI/cartelectronic
Casafan					T	T	T	T	Fan Casafan
CasaFan Eco Aviatos RH787T					T	T	T	T	Fan LucciAir DCII
cent-a-meter	R	R	R						Oregon
Chacon (learning mode) http://www.chacon.be/	RT	RT	RT	RT	RT	RT	RT	RT	AC
Chacon (with address code wheels)	RT	RT	RT	RT	RT		RT	RT	ARC
Chacon EMW200	T	T	T				T	T	Lighting1 EMW200
Chacon 54660 (equal COCO GDR2)	T	T	T	T			T	T	Lighting1 COCO GDR2
Chacon KD101 smoke detector	RT	RT	RT	RT	RT	RT	RT	RT	always on
Chamberlain CS4330CN http ://www.chamberlain24.de/epages/es122868.sf/en_GB/ ?ObjectPath=/Shops/es122868/Products/RA4336			T				T		BlindsT8
Cherubini ID can be 10 00 00 to 10 FF FF							RT		BlindsT18 (receive =BlindsTx + Keeloq)
Chuango * decoded as X10	R	R	R	R*	R*	R*	R*	R*	Lighting4
CoCo (learning mode) http://www.coco-technology.com/en/home/	RT	RT	RT	RT	RT	RT	RT	RT	AC
CoCo (with address code wheels)	RT	RT	RT	RT	RT		RT	RT	ARC
CoCo GDR2 (equal Chacon 54660)	T	T	T	T			T	T	Lighting1 COCO GDR2
Confexx CNF24-2435				T			T		BlindsT12
Conrad RSL2 http://www.conrad.com/ce/en/product/640466/FUNK-STECKDOSENSCHALTER-RSLR2	RT	RT		RT	RT		RT	RT	RSL

Device	Type 1	Type 2	Ext	Ext 2	Pro 1	Pro 2	ProXL 1	ProXL 2	Protocol
Conrad RSL sensors		R					R	R	RSL
Conrad RSL2 motion/door-window sensors		R					R	R	RSL
Cotech Smarthome				RT	RT		RT	RT	Lighting4 + AC,
Cotech weather sensor https://www.clasohlson.com/no/Ekstra-temperaturgiver-hygrometer/36-6726				R	R		R	R	Rubicson
Cranenbroek	T	T	T	T			T	T	Lighting1 Impuls
Cresta - TX-320, TS34C, anemometer, UV sensor, rain sensor	R	R	R	R	R	R	R	R	Hideki
Cuveo https://shop-m-e.de/produkte/cuveo-funk-system/?p=1						RT	RT	RT	AE
dBell – https://www.webstore4ipcameras.nl/dbell_DB-HD-LIVE-B							RT	RT	ByronSX
DEA receivers (unencrypted) http://www.deasystem.com/en/accessory/7/receivers			RT		RT	RT	RT	RT	KeeLoq
Digimax	R	R	R	R	R		R	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				R	R	R	R	R	Rubicson
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	R	Lighting4 + Meiantech
DI.O (learning mode) http://www.di-o.be/	RT	RT	RT	RT	RT	RT	RT	RT	AC
DI.O (with address code wheels)	RT	RT	RT	RT	RT		RT	RT	ARC
Dolat DLM-1 controlled motors http://www.dolat.com.cn/product1.asp?id=538		T				T	T		BlindsT10
DomiaLite (with address code wheels)	RT	RT	RT	RT	RT		RT	RT	ARC
Dooya blind motors, emulate remotes: DC305, DC306, DC307, DC313, DC1602, DC1650, DC1651, DC2700 Bi-Directional is not supported!	T	T	T	T	RT	RT	RT		BlindsT6
Ebode	RT	RT	RT	RT	RT	RT	RT	RT	X10
Electrisave	R	R	R		R	R	R	R	Oregon
ELRO AB400 http://www.elro.eu/en/products/cat/home-automation/home-control1	RT	RT	RT	RT	RT		RT	RT	Lighting4
ELRO AB600	RT	RT	RT	RT	RT		RT	RT	ARC
Ematronic RF01 http://www.ematronic.com/moteurs-volet-roulant/	RT	RT		RT	RT	RT	RT		BlindsT2
Ematronic AC114, AC123 http://www.ematronic.com/moteurs-volet-roulant/	RT	RT		RT	RT	RT	RT		BlindsT3
Eminent * decoded as X10 in ext firmware	RT	RT	RT	RT	RT	RT	RT	RT	Lighting4
Energenie https://energenie4u.co.uk/ - ENER010 – 429.935, 5-gang 429.950	T	T	T				T	T	Lighting1 Energenie Energenie5
Envivo – Chime ENV1348			T				RT	RT	Chime + Lighting4
ESMO blind motors	T	T	T	T	RT	RT	RT		BlindsT6

Device	Type 1	Type 2	Ext	Ext 2	Pro 1	Pro 2	ProXL 1	ProXL 2	Protocol
Etekcity – http://etekcity.com/p-300-5-pack-wireless-remote-control-outlet-switch-set-with-2-remote-controls-zap-5lx.aspx	T	T	T				T	T	Lighting1 Energenie5
Eurodomest (NL – Action) * ARC only	T*	T	T*	T*			T	T	Lighting1 – ARC Or Lighting5 Eurodomest
Everflourish EMW100	T	T	T				T	T	Lighting5 EMW100
Falmec fan						T	T	T	Fan Falmec
Faro Barcelona fan – http://www.faro.es/			T		T	T	T	T	Fan LucciAir
Faro Barcelona DC fan For example : Airfusion Climate II 50 DC					T	T	T	T	Fan LucciAir DC
Faro Barcelona DCII fan For example : Airfusion Climate II 50 DC					T	T	T	T	Fan LucciAir DCII
Faher blinds motor	T	T	T	T	RT	RT	RT		BlindsT6
FineOffset – WH1285 (needs correction -40°C)	R	R	R	R	R	R	R	R	FineOffset
Flamingo	RT	RT	RT	RT	RT	RT	RT	RT	Lighting4
Flamingo FA500D FA500DSS				T	T		T	T	IT
Flamingo KD101 smoke detector FA20RF, FA21RF, FA22RF	RT	RT	RT	RT	RT	RT	RT	RT	always on
Flamingo Smartwares SF501	R	R	R	R	R	R	R	R	AC
Focus	RT	RT	RT	RT	RT	RT	RT	RT	Meiantech
Forest blind/curtain motors http://www.forestgroup.nl/index_nl.html	T	T	T	T			T		BlindsT7
Froggit – F007TH				R	R	R	R	R	Oregon
FT1211R fan controller					T	T	T	T	Fan FT1211R
FunkBus ID: 3F CC (Gira, Jung, Insta, Berker)						T	T	T	Funkbus
Gaposa ER motors 434.15MHz							RT		BlindsT17
Gazco heater							RT	RT	Mertik
HAMA EWS1500			R	R	R	R	R	R	Rubicson
Harrison curtain http://www.harrison.nl/home2.htm	T	T	T	T	T		T	T	Curtain Harrison
Hasta new blind motors http://www.hasta.se/ * = receive in Type2 only used to get the remote ID.	T	RT	T	T	T		RT		BlindsT0
Hasta old blind motors	RT	RT					RT		BlindsT1
Hideki weather sensors	R	R	R	R	R	R	R	R	Hideki
Home Confort lighting http://www.home-confort.net/en			RT				RT	RT	HomeConfort
HomeEasy EU (learning mode) http://www.elro.eu/en/products/cat/home-automation/	RT	RT	RT	RT	RT	RT	RT	RT	HE EU
HomeEasy UK – HE105 - http://www.homeeasy.eu/	T	T	T	T			T	T	Thermostat2 HE105
HomeEasy UK (learning mode)	RT	RT	RT	RT	RT	RT	RT	RT	AC
HomeEasy UK (with address code wheels)	RT	RT	RT	RT	RT		RT	RT	ARC
Honeywell - TF-ATS34C	R	R	R	R	R	R	R	R	Hideki
Housegard Origo smoke detector				RT	RT		RT	RT	ARC
HQ COCO-20			T	T			T	T	Lighting1 HQ COCO20
Hualite blinds					T	T	T		BlindsT14
Hunter fan https://www.hunterfan.com/						RT	RT	RT	Fan
Ikea Koppla	T					T			Lighting3
Impuls (NL – Action)	T	T	T	T			T	T	Lighting1 Impuls

Device	Type 1	Type 2	Ext	Ext 2	Pro 1	Pro 2	ProXL 1	ProXL 2	Protocol
inblindz – https://www.inblindz.nl/				T			T		BlindsT13
Inovalley SM80 with plant probes http://www.inovalley.com/detail.php?item_id=289			R	R	R	R	R	R	Rubicson
Intertechno (learning mode) http://www.intertechno.at/	RT	RT	RT	RT	RT	RT	RT	RT	AC
Intertechno (with address code wheels)	RT	RT	RT	RT	RT		RT	RT	ARC
JVS screens http://www.screen-discount.nl/	T	T	T	T	RT	RT	RT		BlindsT6
Kambrook RF3672 – http://www.bunnings.com.au/kambrook-4-piece-indoor-powerpoint-kit-with-remote-control_p7030054		T	T				T	T	Lighting2 Kambrook
Keeloq (unencrypted)			RT		RT	RT	RT	RT	KeeLoq
Kerui security * decoded as X10 in Ext2 and Pro firmware https://www.aliexpress.com/item/433-MHz-Wireless-Door-Windows-Sensors-for-KERUI-Alarm-System-Magnetic-Door-Sensor-Door-Open-reminder/32590916896.html	R	R	R	R*	R*	R*	R*	R*	Lighting4 + X10*
Kerui siren xx xx x8 = on, xx xx x2 = off	T	T	T	T	T	T	T	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	RT		RT	RT	RT	RT		BlindsT3
Kingpin KP100 projection screen	T	T	T	T	T	T	T	T	Lighting4
KlikAanKlikUit (learning mode) http://www.klikaanklikuit.nl/home/	RT	RT	RT	RT	RT	RT	RT	RT	AC
KlikAanKlikUit (with address code wheels)	RT	RT	RT	RT	RT		RT	RT	ARC
La Crosse - TX2, TX3, TX3P, TX4, TX7, TX17, WS2300	R	R	R	R	R	R	R	R	LaCrosse
La Crosse - rain sensor TX145R						R	R	R	Hideki
La Crosse - weather WS1652 - temp/hum TX141TH-Bv2, TX141W						R	R		LaCrosse
Legrand CAD radio			T				RT	RT	Lighting5 LeGrand CAD
Lexibook - SM883	R	R	R	R	R	R	R	R	Hideki
LightwaveRF - http://www.lightwaverf.co.uk/	RT	RT	RT	RT	RT		RT	RT	AD
Livolo - http://www.livolonederland.nl/ - http ://www.livolo-France.com/fr/ - http ://nl.aliexpress.com/w/wholesale-livolo-touch-switch.html	T	T	T	T	T		RT	RT	Lighting5 Livolo
Louvolite one touch motorised blinds * = receive in Type2 only used to get the remote ID.	T	RT	T	T	T		RT		BlindsT0
Louvolite one touch Vogue vertical blinds * = receive only used to get the remote ID.							RT		BlindsT0
Lucci Air fan https://www.beaconlighting-europe.com/product-category/lucci-air-deckenventilatoren/			T		T	T	T	T	Fan LucciAir
Lucci Air DC fan					T	T	T	T	Fan LucciAir DC

Device	Type 1	Type 2	Ext	Ext 2	Pro 1	Pro 2	ProXL 1	ProXL 2	Protocol
For example : Airfusion Climate II 50 DC									
Lucci Air DCII fan For example : Airfusion Climate II 50 DC					T	T	T	T	Fan LucciAir DCII
Luxaflex – http://www.luxaflex.se/produkter/luxaflex/rullgardiner/			T	T	T	T	T	T	RFY
Maplin http ://www.maplin.co.uk/p/remote-controlled-mains-socket-set-single-n78ka	T	T	T	T			T	T	Lighting1 COCO GDR2
Marquant 943134		R					R	R	X10
Maverick ET-732/733 BBQ/Smoke temperature	R	R	R	R	R		R	R	Hideki
MCZ pellet stove		RT	T				RT	RT	Thermostat4
Mdremote LED dimmer V106 www.ultraleds.co.uk	T	T	T	T					Lighting5 MDRemote V106
Mdremote LED dimmer V107 www.ultraleds.co.uk	T	T	T	T					Lighting5 MDRemote V107
Mdremote LED dimmer V108, EKAB-10KRF http://www.ledstripkoning.nl/accessoires/dimmers-wit/draadloze-dimmer-10-knops-rf/	T	T	T	T					Lighting5 MDRemote V108
Meade – TS33F-M, TS34C-M http://www.meade.com/products/weatherstations/sensors.html	R	R	R	R	R	R	R	R	Hideki
Media Mount Projector screen		T							Lighting4
Meiantech security	RT	RT	RT	RT	RT	RT	RT	RT	Meiantech
Mercury appliance modules http://mercury.avsl.com/product?range=ME5124	T	T	T	T			T	T	Lighting1 Energenie5
Mertik Maxitrol Fire Place controllers - G6R-H4T1, G6R-H4T5, G6R-H4TD, G6R-H4T16, G6R-H4TB, G6R-H4T21-Z22	RT	RT	RT	RT	RT		RT	RT	Mertik
Mertik Maxitrol Fire Place controller – G6R-H3T1							RT	RT	Mertik
Mertik Maxitrol Fire Place controller – G6R-H4S	T	T	T	T	T		T	T	Mertik
Meteoscan W155,W160			R	R	R	R	R	R	Rubicson
Monaco – https://www.airam.fi/en/product/v8305-2988/7020500/monaco-wireless-doorbell-230v/140/1			T				RT	RT	Chime + Lighting4
Motiva blinds, remote BY-305 * = receive in Type2 only used to get the remote ID.	T	RT	T	T	T		RT		BlindsT0
Motolux blinds motor	T	T		T	T	T	T		BlindsT3
Motostar blinds						T	T		BlindsT15
mi.sol WH2 http://www.ebay.com/itm/Transmitter-for-Wireless-Weather-Station-wireless-temperature-sensor-/121664060899	R	R	R	R	R	R	R	R	FineOffset
NEXA (learning mode) - http://www.nexa.se/	RT	RT	RT	RT	RT	RT	RT	RT	AC
NEXA (with address code wheels)	RT	RT	RT	RT	RT		RT	RT	ARC
NEXA KD101/LM101LC smoke detector	RT	RT	RT	RT	RT	RT	RT	RT	always on
Nexa NBA-001 temperature sensor	R	R	R	R	R	R	R	R	Hideki
NEXUS - I008T	R	R	R	R	R	R	R	R	Hideki
Nobily rolladenmotor http://www.nobily.de/rolladenmotor/funk-elektronisch/40mm-achtkantwelle/170/nobily-rolladenmotor-pre4?c=5	T	T	T	T	RT	RT	RT		BlindsT6

Device	Type 1	Type 2	Ext	Ext 2	Pro 1	Pro 2	ProXL 1	ProXL 2	Protocol
Novy extractor hood https://www.novynederland.nl/						T	RT	RT	Fan
Oase Inscenio FM Master						T	T	T	Lighting1 Oase
Omnia Go blinds https://omniablinds.com/	T	T	T	T	RT	RT	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	R*	R*	R*	R*	R	R	R	R	Imagintronix* Pro = Fineoffset
ORNO	RT	RT	RT	RT	RT	RT	RT	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	R	R	R	R	R	R	R	Oregon
Oregon Scientific weighting scales - BWR101, BWR102, GR101 US BWR101, BWR102 in RFXrec	R		R	R			R	R	Oregon
Oregon MSR939 https://www.redealer.de/multimedia/home-living/wetterstationen/bewegungssensor-msr939/a-200667/			R				R	R	Oregon
OTIO EHS5050		R					R	R	RSL
OTIO Lighting	RT	RT		RT	RT		RT	RT	RSL
Outlook Motion Blinds https://www.spotlightstores.com/curtains-blinds/indoor-blinds/roller-blinds/project-outlook-motion-motorised-roller-blind/p/BP80360543		RT			RT	RT	RT		BlindsT4
OWL – CM113	R	R	R				R	R	Oregon
OWL – CM119, CM160, CM180, CM180i http://www.theowl.com/	R	R	R	R	R	R	R	R	Oregon
Ozroll E-Trans								RT	BlindsTx
Pearl NC-7159 http://www.pearl.de/a-NC7159-3041.shtml			R	R	R	R	R	R	Rubicson
Phenix	RT	RT	RT	RT	RT	RT	RT	RT	Lighting4
Philips SBC SP370 series		T					T	T	Lighting1 Philips SBC
Prego P-8426 http://www.sunmarket.fi/tuote.asp?TID=11990	R	R	R		R		R	R	X10 Pro1/ProXL1 = Rubicson
Profile Qnect 423000040,423000042				RT	RT	RT	RT	RT	Lighting4 + AC Pro = AC
Profiles PAC-326R Belcanto	RT	RT	RT	RT	RT	RT	RT	RT	ByronSX
Profitec KD310T https://akkuplus.de/profitec-KD-310-T-Energiekosten-Messgeraet-Sender		R		R			R	R	RSL
Proluxx projection screen	T	T	T		T	T	T	T	Lighting4
PROmax				T	T	T	T	T	IT

Device	Type 1	Type 2	Ext	Ext 2	Pro 1	Pro 2	ProXL 1	ProXL 2	Protocol
Proove –TSS320 & TSS330 fridge/freezer thermometer & outdoor sensors 311346,311501	R	R	R	R	R	R	R	R	FineOffset
Quigg RC DS5 4001-A DE 3726				RT	RT		RT	RT	Lighting4 + AC Pro = AC
Quotidom – http ://www.quotidom.com/moteur-tubulaire-radio-quotidom-10-ou-20-nm-volet-roulant-ou-store-banne.html (not the Solutio version)	T	T	T	T	RT	RT	RT		BlindsT6
RAEX blind motor (YR1326 or YRL2016 controlled)		RT				RT	RT		BlindsT4
RAW data					RT	RT	RT	RT	undec on
Renkforce RF101 smoke detector	RT	RT	RT	RT	RT	RT	RT	RT	always on
Revolt NC5461 http://www.pearl.de/a-NC5462-5452.shtml		R		R			R	R	RSL
RFXSensor	R	R	R	R	R	R	R	R	X10
RFXMeter	R	R	R	R	R	R	R	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.	T	RT	T						AD
RGB432W LED controller	T	T	T						Lighting5 RGB432W
RisingSun	RT	RT	RT	RT			RT	RT	Lighting4
RUBiCSON - stektermometer 48659, 48695 -pool sensor p48019	R		R	R	R	R	R	R	Rubicson
RohrMotor24 RMF blind motors http://www.rohrmotor24.eu/rohrmotor24	T	T	T	T	RT	RT	RT		BlindsT6
RollerTrol R-series blind motors - http://rollertrol.com/ * = receive in Type2 only used to get the remote ID.	T	RT	T	T	T		RT		BlindsT0
Rollertrol G-series blind motors	T	T	T	T	RT	RT	RT		BlindsT6
Sartano	RT	RT	RT	RT	RT		RT	RT	Lighting4
SAS SA-200 smoke detector	RT	RT	RT	RT	RT	RT	RT	RT	always on
Screenline motors - http://www.screenline.cz/en/				T			T		BlindsT13
SEAV TXS4				T			T	T	FAN SEAV TXS4
SelectPlus200689101 & SelectPlus200689103 (Action NL)		RT	RT	RT	RT	RT	RT	RT	ByronSX
Siemens SF01 LF959RA50/LF259RB50/LF959RB50 extractor hood		T					RT	RT	Homeconfort,Fan SF01
Siemens (UK)	RT	RT	RT	RT	RT		RT	RT	AD
SilverCrest 91089	RT	RT	RT				RT	RT	Lighting4
SilverCrest 60494, 284705				RT	RT		RT	RT	Lighting4 + AC Pro = AC
Silverline Premium - http://www.aluparts.nl	T	T	T	T	RT	RT	RT		BlindsT6
Simu Hz / RTS -http://www.simu.com/			T	T	T	T	T	T	RFY
Siro	T	T	T	T	RT	RT	RT		BlindsT6
Smartwares radiator valve http://www.homewizard.nl/smartwares-draadloze-radiatorkraan.html			T	T	T	T	T	T	Radiator1 Smartwares
Smartwares RM174RF, RM175RF				R	R	R	R	R	Ext2 = ARC Pro = Lighting4
Somfy / RTS http://www.somfy.co.uk/ To control Somfy Centralis use RFY2 commands.			T	T	T	T	T	T	RFY

Device	Type 1	Type 2	Ext	Ext 2	Pro 1	Pro 2	ProXL 1	ProXL 2	Protocol
Sonoff RF	RT	RT	RT	RT	RT	RT	RT	RT	Lighting4
Sunpery blind motors		T					T		BlindsT9
Sunvic TLX1206	RT	RT	RT		RT		RT	RT	X10
Sunvic TLX7506	R	R	R		R		R	R	X10
TechnoLine/Proficell http://www.elv.de/output/controller.aspx?cid=74&detail=10&detail2=27621 - TX95-TH, WS9180-TX104	R		R	R	R	R	R	R	Rubicson
Telldus 312716,313159,313160 https://www.lohelectronics.se/hemautomation/433mhz/sensorer-1110/smart-inne-och-utetermometer-med-hygrometer-10396	R	R	R	R	R	R	R	R	FineOffset
TFA - TS15C, TS34C, 30.3245.02, 30.3139 external temperature / humiditysensor 30.3133, anemometer 30.3149, UV sensor, rain sensor 30.3148, pool sensor 30.3160	R	R	R	R	R	R	R	R	Hideki
TFA - pool sensor 30.3056.10, 30.3216.20 - external temperature sensor 30.3208.02 - temperature sensor 30.504554				R	R	R	R	R	Oregon
TFA - rain sensor 30.3233						R	R	R	Hideki
TFA - weather Pro 35.1161.01 - temp/hum 30.3249.02, 30.3221.02, 30.3222.02, 30.3251.10						R	R		LaCrosse
TFA - temp/hum 30.3247.02							R	R	Rubicson
UPM/Esic (very short receiving range) WT260,WT260H,WT440H,WT450,WT450H ,WDS500, RG700	R				R		R	R	Hideki
Unitec 48110 EIM 826				RT	RT		RT	RT	Lighting4 + AC Pro = AC
Ventus WS155			R	R	R	R	R	R	Rubicson
Viking - 02035, 02038, 02811	R	R	R	R	R	R	R	R	FineOffset
Visonic CodeSecure	R	R	R	R	R	R	R	R	Visonic
Visonic PowerCode	R	R	R	R	RT	RT	R	R	Visonic
Wave Design extractor hood	T	T	T	T			T	T	Fan SF01
Waveman	T	T	T	T			T	T	Lighting1 Waveman
Westinghouse fan 7226640				T			T	T	Fan
WT0122 pool sensor			R		R	R	R	R	FineOffset
YOODA blind motors http://www.sukcesgroup.pl	T	T	T	T	RT	RT	RT		BlindsT6
X10 Ninja/Robocam		RT							X10
X10 PC Remote	RT								X10
X10 RTS10 / RFS10	RT	RT	RT	RT	RT	RT	RT	RT	X10
X10 lighting	RT	RT	RT	RT	RT	RT	RT	RT	X10
X10 security	RT	RT	RT	RT	RT	RT	RT	RT	X10
Xdom	RT	RT	RT	RT	RT	RT	RT	RT	X10
Xiron – EN6	R		R	R	RT	R	R	R	Rubicson

2.3. Undec on

Ce paramètre est pour une utilisation interne par RFXCOM!!!

Si un nouveau type de capteur apparaît, il ne sera peut-être pas décodé par le firmware du RFXtrx. C'est pour cette raison qu'il y a un mode permettant d'afficher les messages reçus, mais non décodé.
Cela permet d'afficher les trames reçus par le RFXtrx pour permettre à RFXCOM de les ajouter ensuite dans les prochains firmware.
Si le mode Undec on est actif, l'application va recevoir un grand nombre de messages liés pour la plupart à des trames incorrectes ou des informations mal décodées.
Il est donc important de désactiver l'option "undec on" pour une utilisation courante du produit.

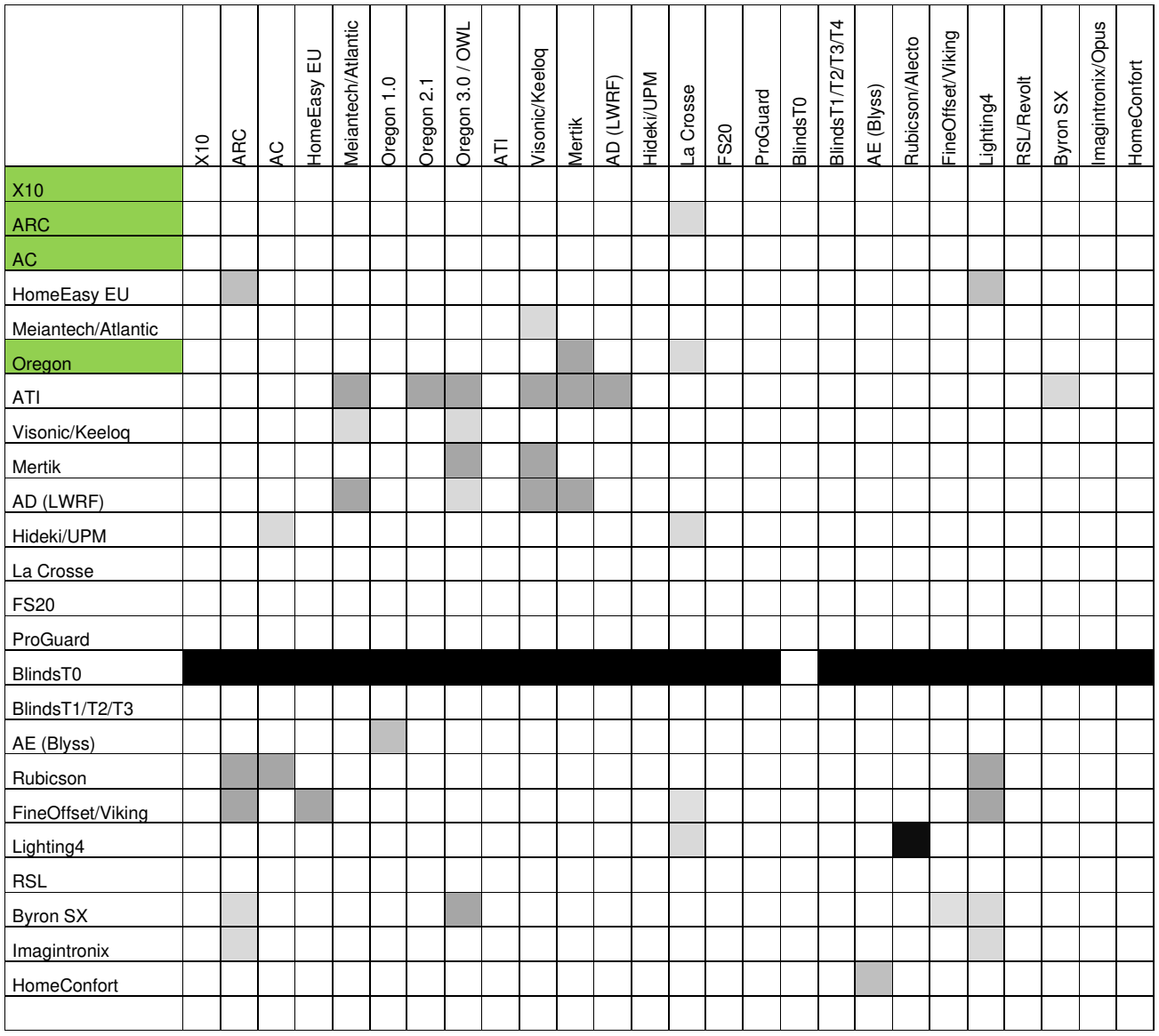
2.4. Influence des protocoles activés sur la sensibilité.

La sensibilité du récepteur est très sensible au nombre de protocoles activés. Moins le nombre de protocoles activés est important, plus la sensibilité est grande.

Certains protocoles réduises fortement, voir inhibe les autres protocoles qui sont proches. Par exemple le protocole AD (LightwaveRF, Siemens) peut perturber de manière significative la réception des protocoles Meiantech/Atlantic, Oregon 3.0, Visonic et Mertik.

Il est conseillé de désactiver les protocoles que vous ne souhaitez pas utiliser afin de maximiser les performances de réception.

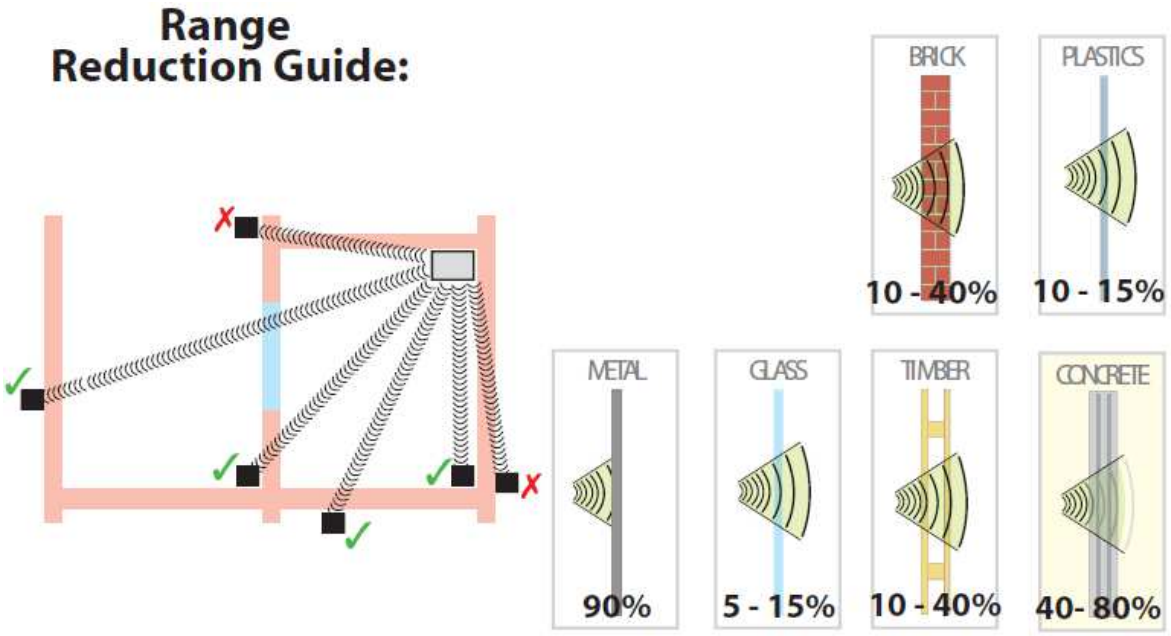
Voici un tableau décrivant les protocoles susceptibles de se perturber :



Verde = enabled by default

2.5. RF range reduction

The RF signals operating distance is reduced when the signal has to pass through walls.



2.6. Logiciels domotique compatibles

La liste des logiciels compatibles avec le RFXtrx est disponible sur www.rfxcom.com

2.7. Dimensions

Les dimensions du RFXtrx : 83.5 x 42 x 15 mm
La hauteur totale en incluant l'antenne est : 122mm

Les dimensions du RFXtrx433E / RFXtrx433XL : 83 x 59 x 22 mm
La hauteur totale en incluant l'antenne est : 130mm

2.8. Electrical

Le RFXtrx est alimenté par les 5 Volt de l'interface USB.

Courant consommé :

Receive mode:	28 mA (0.14Watt)
Transmit mode:	45 mA

The RFXtrx Radiated RF power is 10dBm max.

2.9. Condition d'utilisation

Température normal :15°C à 35°C
Température extrême : -10°C à 55°C

3. Installation du driver USB

Le RFXtrx dispose du l'interface USB avec chipset FTDI FT232R.
Le RFXtrx433XL dispose du l'interface USB avec chipset FTDI FT230X

Le driver est disponible sur le site FTDI : http://www.ftdichip.com/Drivers/VCP.htm

4. Lancement du programme RFXflash sous Linux avec Mono

Lancer un terminal Linux (Ctrl-Alt-T)

Exécuter les commandes suivantes au moins une fois (si mono n'est pas installé) :

Installer Mono:
[sudo] **apt-get install mono-runtime**

Installer la librairie VisualBasic :
[sudo] **apt-get install libmono-microsoft-visualbasic8.0-cil**

Si le périphérique USB est détecté sous la forme /dev/ttyACMx, vous devez créer un lien symbolique vers un port série virtuel /dev/ttySx.
Cela n'est pas nécessaire si le périphérique est directement créé sous la forme /dev/ttyUSBx !!
[sudo] **ln -sf /dev/ttyACM1 /dev/ttyS3**

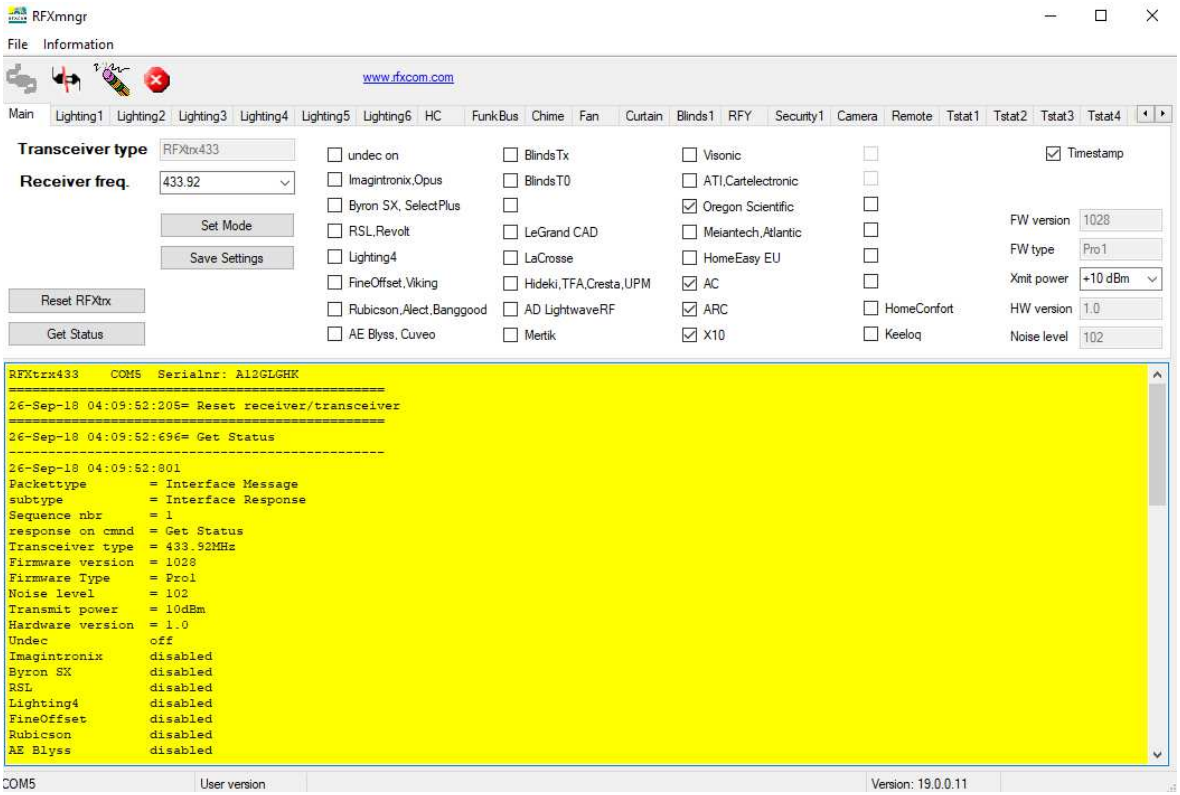
Note : Les crochets [] indique que sudo est facultatif. Vous devez utiliser sudo (sans crochet) uniquement si vous utilisez un compte qui n'est pas super utilisateur (root).

Lancer le program RFXflash :
[sudo] **mono RFXflash.exe**

Remarque: RFXmngr ne fonctionne pas sous mono!

5. Programme de test RFXmngr

L'application RFXmngr permet le décodage des trames reçues et l'émission de commande dans les différents protocoles supportés par le RFXCOM.
Lors de la connexion du RFXtrx, l'application RFXmngr émet automatiquement un Reset suivi d'une commande Get Status qui permet de lire les paramètres courants du module RFXtrx.



Tous les protocoles sont toujours actifs en transmission. En réception par contre, il est possible de désactiver certains protocoles.
Moins le nombre de protocole activé est important et plus la sensibilité est accrue.
Il est donc conseillé de n'activer que les protocoles que vous utilisez réellement.

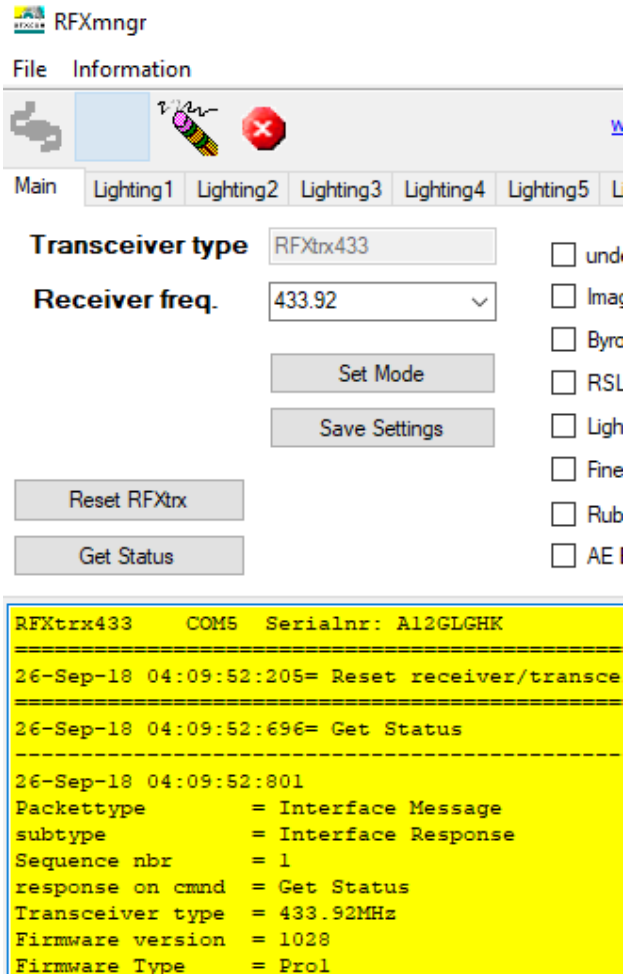
A noter que ces paramètres sont remis à zéro lors d'une mise à jour de firmware Type1 ou Type2.

5.1. Récepteur

Les protocoles radio qui sont autorisés pour la réception doivent être configurés dans l'onglet « Main »
Cliquez sur le bouton « Save Settings » afin d'enregistrer la configuration courante dans la mémoire non volatile du RFXtrx, elle sera ainsi rechargée même après un redémarrage du module.

Ces paramètres sont automatiquement effacés lors de la mise à jour du firmware.

Les données reçues par le RFXtrx sont décodées et affichées dans la fenêtre jaune :

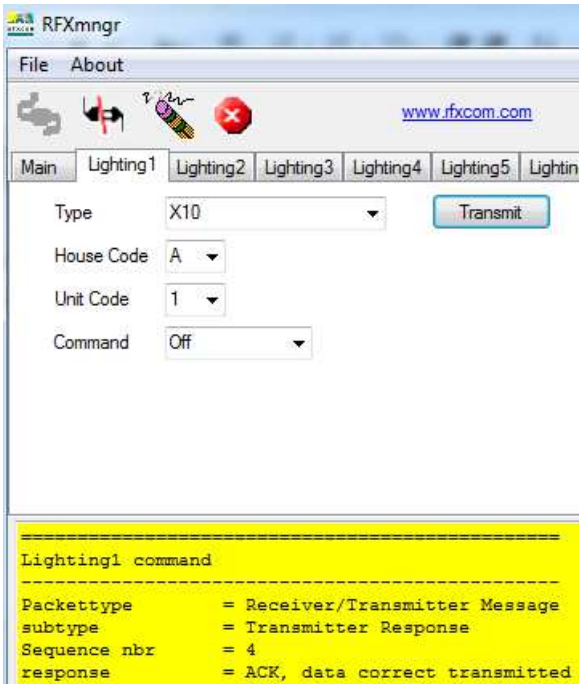


5.2. Emetteur

Les différents onglets à la suite de l'onglet « Main » permettent d'émettre des commandes dans les différents protocoles supportés par le RFXtrx.

Les protocoles sont regroupés suivant la configuration qui leur est nécessaire.
Par exemple, Lighting1 est utilisée pour émettre en X10, ARC, etc...

Il faut se reporter à la documentation du SDK pour avoir une liste complète des protocoles pour chaque onglet.



Les commandes émises sont affichées dans la fenêtre jaune.
L'acquittement renvoyé par le RFXtrx est aussi affiché.
Dans l'exemple, L'acquittement ACK indique que les données ont été transmises correctement.

6. Mise à jour du RFXtrx

6.1. Mise à jour du firmware RFXtrx

Le Firmware du RFXtrx433 peut être mis jour en utilisant la procedure suivante :

1. Télécharger la dernière version du firmware: RFXtrx315_yy.hex, RFXrec433_yy.hex, RFXtrx433_yy.hex ou RFXtrx433XL_yy.hex.
2. Connecter le RFXtrx sur un PC Windows ou Linux (avec MONO)
3. Arrêter toute application utilisant le RFXtrx
4. Démarrer le programme de mise à jour avec Administrator rights (RFXflash version 9.0.0.0 minimum).
5. Sélectionner le port COM ou TCP/IP port correspondant à votre RFXtrx dans le logiciel RFXflash et cliquer sur le bouton « CONNECT »,
   (La LED rouge doit s'allumer)
6. Charger le fichier .hex correspondant au firmware,
7. Cliquer sur le bouton WRITE,
8. Cliquer sur le bouton « Normal Execution Mode ».

IMPORTANT:

1. Ne jamais interrompre la procédure de flash une fois qu'elle a démarrée.
2. Il est possible que vous ayez une boite de dialogue indiquant qu'il y a eu une erreur. Dans ce cas, déconnecter et reconnecter le RFXtrx, puis reprendre à l'étape 5 ci-dessus jusqu'à ce que la procédure se déroule correctement.

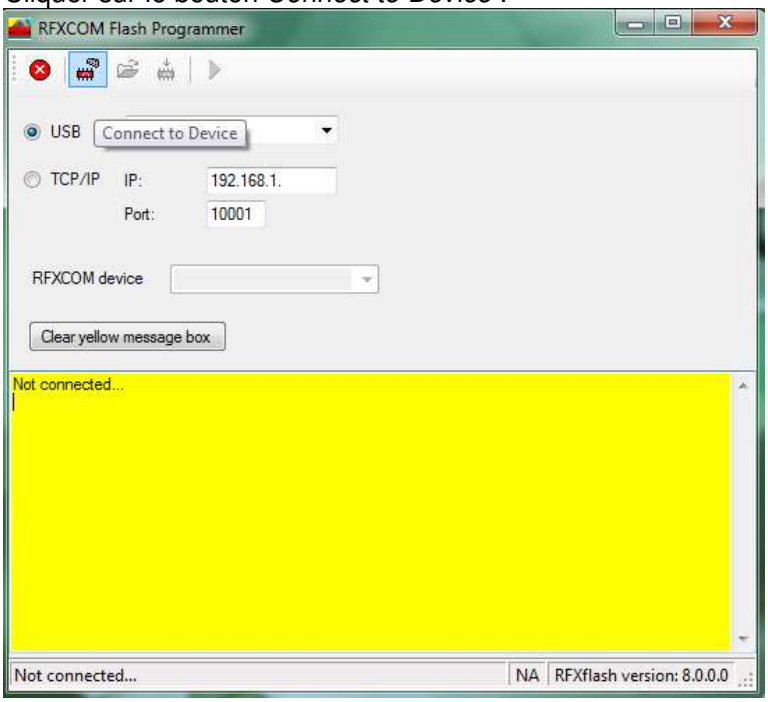
Si la LED rouge ne s'allume pas lorsque vous cliquez sur le bouton Connect :

1. Vérifiez que vous avez choisi le bon port COM USB.
2. Si vous avez flashé le RFXtrx et que la procédure c'est mal passée, il est possible que le module soit dans un état qui ne permet plus de le mettre à jour. Dans ce cas, contactez directement le support RFXCOM : support@rfxcom.com.

Note: Les paramètres du RFXtrx seront automatiquement écrasés lors d'une mise à jour de firmware (Type1/Type2) et devront être reconfigurés.

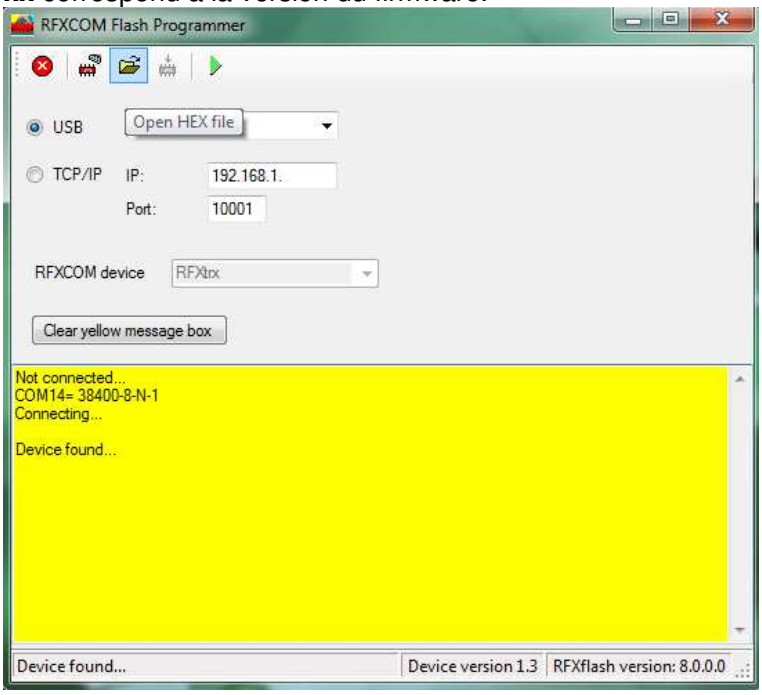
6.2. *Mise à jour du firmware RFXtrx pas à pas*

- Cliquer sur le bouton *Connect to Device* :

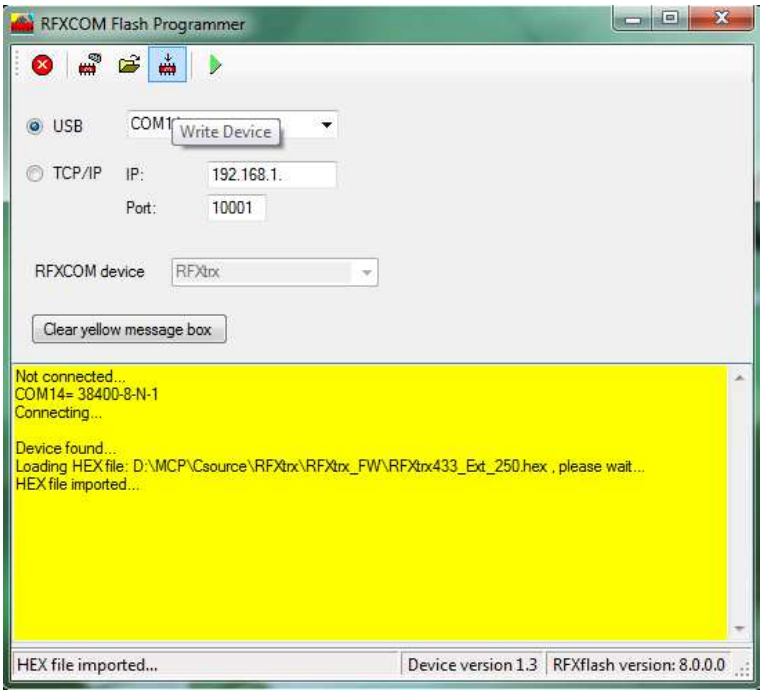


Le RFXtrx va automatiquement basculer en mode Mise à jour.
Si le bootloader n'est pas chargé (mode mise à jour), consultez le paragraphe « forcer le bootloader ».

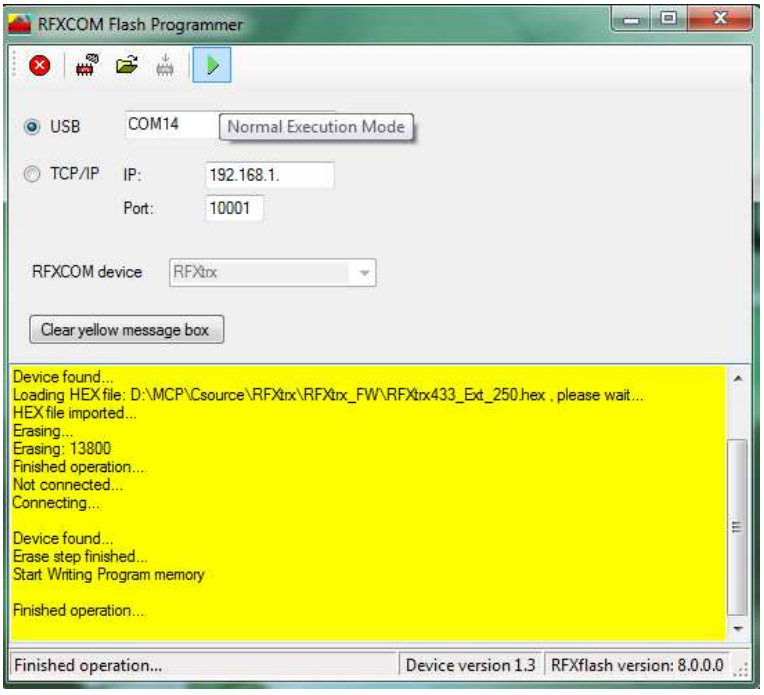
- Cliquer le bouton *Open HEX file* et charger le fichier RFXtrx***yyy ??_xx***.hex
Prenez bien attention à toujours charger le dernier firmware disponible.
yyy correspond à la fréquence RFXtrx433 pour un module RFXtrx433!
?? XL pour un module RFXtrx433XL
xx correspond à la version du firmware.



- Cliquez sur le bouton « Write device button » pour flasher le RFXtrx.



- Cliquez sur le bouton « Normal Execution Mode » pour passer le RFXtrx en mode exécution.



Note: Les paramètres du RFXtrx seront automatiquement écrasés lors d'une mise à jour de firmware (Type1/Type2) et devront être reconfigurés.

7. RFXtrx433 Code tables

7.1. Remote commands

7.1.1. X10 RF Remote

Dec	Hex	Button
2	02	0
18	12	8
34	22	4
56	38	Rewind
58	3A	Info
64	40	CHAN+
66	42	2
82	52	Ent
96	60	VOL+
98	62	6
99	63	Stop
100	64	Pause
112	70	Cursor-left
113	71	Cursor-right
114	72	Cursor-up
115	73	Cursor-down
116	74	Cursor-up-left
117	75	Cursor-up-right
118	76	Cursor-down-right
119	77	Cursor-down-left
120	78	left mouse
121	79	left mouse-End
123	7B	Drag
124	7C	right mouse
125	7D	right mouse-End
130	82	1
146	92	9
160	A0	MUTE
162	A2	5
176	B0	Play
182	B6	Menu
184	B8	Fast Forward
186	BA	A+B
192	C0	CHAN-
194	C2	3
201	C9	Exit
209	D1	MP3
210	D2	DVD
211	D3	CD
212	D4	PC / Shift-4
213	D5	Shift-5
214	D6	Shift-Ent
215	D7	Shift-Teletext
216	D8	Text
217	D9	Shift-Text
224	E0	VOL-
226	E2	7
242	F2	Teletext
255	FF	Record

7.1.2. ATI Remote Wonder

Dec	Hex	Button
0	00	A
1	01	B
2	02	power
3	03	TV
4	04	DVD
5	05	?
6	06	Guide
7	07	Drag
8	08	VOL+
9	09	VOL-
10	0A	MUTE
11	0B	CHAN+
12	0C	CHAN-
13	0D	1
14	0E	2
15	0F	3
16	10	4
17	11	5
18	12	6
19	13	7
20	14	8
21	15	9
22	16	txt
23	17	0
24	18	snapshot ESC
25	19	C
26	1A	^
27	1B	D
28	1C	TV/RADIO
29	1D	<
30	1E	OK
31	1F	>
32	20	<-
33	21	E
34	22	v
35	23	F
36	24	Rewind
37	25	Play
38	26	Fast forward
39	27	Record
40	28	Stop
41	29	Pause
44	2C	TV
45	2D	VCR
46	2E	RADIO
47	2F	TV Preview
48	30	Channel list
49	31	Video Desktop
50	32	red
51	33	green
52	34	yellow
53	35	blue
54	36	rename TAB
55	37	Acquire image
56	38	edit image
57	39	Full screen
58	3A	DVD Audio
112	70	Cursor-left
113	71	Cursor-right
114	72	Cursor-up
115	73	Cursor-down
116	74	Cursor-up-left
117	75	Cursor-up-right
118	76	Cursor-down-right
119	77	Cursor-down-left
120	78	V
121	79	V-End
124	7C	X
125	7D	X-End

7.1.3. ATI Remote Wonder Plus

Dec	Hex	Button
0	00	A
1	01	B
2	02	power
3	03	TV
4	04	DVD
5	05	?
6	06	Guide
7	07	Drag
8	08	VOL+
9	09	VOL-
10	0A	MUTE
11	0B	CHAN+
12	0C	CHAN-
13	0D	1
14	0E	2
15	0F	3
16	10	4
17	11	5
18	12	6
19	13	7
20	14	8
21	15	9
22	16	txt
23	17	0
24	18	Open Setup Menu
25	19	C
26	1A	^
27	1B	D
28	1C	FM
29	1D	<
30	1E	OK
31	1F	>
32	20	Max/Restore Window
33	21	E
34	22	v
35	23	F
36	24	Rewind
37	25	Play
38	26	Fast forward
39	27	Record
40	28	Stop
41	29	Pause
42	2A	TV2
43	2B	Clock
44	2C	TV
45	2D	VCR
46	2E	RADIO
47	2F	TV Preview
48	30	Channel list
49	31	Video Desktop
50	32	red
51	33	green
52	34	yellow
53	35	blue
54	36	rename TAB
55	37	Acquire image
56	38	edit image
57	39	Full screen
58	3A	DVD Audio
112	70	Cursor-left
113	71	Cursor-right
114	72	Cursor-up
115	73	Cursor-down
116	74	Cursor-up-left
117	75	Cursor-up-right
118	76	Cursor-down-right
119	77	Cursor-down-left
120	78	Left Mouse Button
121	79	V-End
124	7C	Right Mouse Button
125	7D	X-End

7.1.4. Medion Remote

Dec	Hex	Button
0	00	Mute
1	01	B
2	02	power
3	03	TV
4	04	DVD
5	05	Photo
6	06	Music
7	07	Drag
8	08	VOL-
9	09	VOL+
10	0A	MUTE
11	0B	CHAN+
12	0C	CHAN-
13	0D	1
14	0E	2
15	0F	3
16	10	4
17	11	5
18	12	6
19	13	7
20	14	8
21	15	9
22	16	txt
23	17	0
24	18	snapshot ESC
25	19	DVD MENU
26	1A	^
27	1B	Setup
28	1C	TV/RADIO
29	1D	<
30	1E	OK
31	1F	>
32	20	<-
33	21	E
34	22	v
35	23	F
36	24	Rewind
37	25	Play
38	26	Fast forward
39	27	Record
40	28	Stop
41	29	Pause
44	2C	TV
45	2D	VCR
46	2E	RADIO
47	2F	TV Preview
48	30	Channel list
49	31	Video Desktop
50	32	red
51	33	green
52	34	yellow
53	35	blue
54	36	rename TAB
55	37	Acquire image
56	38	edit image
57	39	Full screen
58	3A	DVD Audio
112	70	Cursor-left
113	71	Cursor-right
114	72	Cursor-up
115	73	Cursor-down
116	74	Cursor-up-left
117	75	Cursor-up-right
118	76	Cursor-down-right
119	77	Cursor-down-left
120	78	V
121	79	V-End
124	7C	X
125	7D	X-End

7.2. Harrison address conversion to switch settings

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
A	0	1	1	0	1	0	0	0	0
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

H H H H = House code
X X X X = device code

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

7.3. Flamingo, AB400, IMPULS, Sartano,Brennenstuhl, SilverCrest 91089, Cranenbroek switch settings

Utiliser ELRO AB400D
Remarque : Le code HC (House Code A-P) correspond au code maison utilisé dans l'application, et n'a aucune relation avec les codes A, B, C, D, E correspondant aux boutons des télécommandes.

	1	2	3	4	<== switches
HC==========					
A	0	0	0	0	
B	0	0	0	1	
C	0	0	1	0	
D	0	0	1	1	
E	0	1	0	0	
F	0	1	0	1	
G	0	1	1	0	
H	0	1	1	1	
I	1	0	0	0	
J	1	0	0	1	
K	1	0	1	0	
L	1	0	1	1	
M	1	1	0	0	
N	1	1	0	1	
O	1	1	1	0	
P	1	1	1	1	

	5	A	B	C	D	E		5	A	B	C	D	E	<== switches
	5	6	7	8	9	10		5	6	7	8	9	10	<== OR switches
DC==========DC==========														
1	0	0	0	0	0	0	33	0	0	0	0	0	1	
2	0	0	0	1	0	0	34	0	0	0	1	0	1	
3	0	0	1	0	0	0	35	0	0	1	0	0	1	
4	0	0	1	1	0	0	36	0	0	1	1	0	1	
5	0	1	0	0	0	0	37	0	1	0	0	0	1	
6	0	1	0	1	0	0	38	0	1	0	1	0	1	
7	0	1	1	0	0	0	39	0	1	1	0	0	1	
8	0	1	1	1	0	0	40	0	1	1	1	0	1	
9	1	0	0	0	0	0	41	1	0	0	0	0	1	
10	1	0	0	1	0	0	42	1	0	0	1	0	1	
11	1	0	1	0	0	0	43	1	0	1	0	0	1	
12	1	0	1	1	0	0	44	1	0	1	1	0	1	
13	1	1	0	0	0	0	45	1	1	0	0	0	1	
14	1	1	0	1	0	0	46	1	1	0	1	0	1	
15	1	1	1	0	0	0	47	1	1	1	0	0	1	
16	1	1	1	1	0	0	48	1	1	1	1	0	1	
17	0	0	0	0	1	0	49	0	0	0	0	1	1	
18	0	0	0	1	1	0	50	0	0	0	1	1	1	
19	0	0	1	0	1	0	51	0	0	1	0	1	1	
20	0	0	1	1	1	0	52	0	0	1	1	1	1	
21	0	1	0	0	1	0	53	0	1	0	0	1	1	
22	0	1	0	1	1	0	54	0	1	0	1	1	1	
23	0	1	1	0	1	0	55	0	1	1	0	1	1	
24	0	1	1	1	1	0	56	0	1	1	1	1	1	
25	1	0	0	0	1	0	57	1	0	0	0	1	1	
26	1	0	0	1	1	0	58	1	0	0	1	1	1	
27	1	0	1	0	1	0	59	1	0	1	0	1	1	
28	1	0	1	1	1	0	60	1	0	1	1	1	1	
29	1	1	0	0	1	0	61	1	1	0	0	1	1	
30	1	1	0	1	1	0	62	1	1	0	1	1	1	
31	1	1	1	0	1	0	63	1	1	1	0	1	1	
32	1	1	1	1	1	0	64	1	1	1	1	1	1	

Examples:

A1	0 0 0 0 0 0 0 0 0 0
A15	0 0 0 0 1 1 1 0 0 0
N2	1 1 0 1 0 0 0 1 0 0
N11	1 1 0 1 1 0 1 0 0 0

0 = switch off
1 = switch on

7.4. Energenie 5-gang 429.950

To know the codes to use open the remote and check the 1 to 5 jumpers connected.
If a jumper connection is open it is a 1. If connected it is a 0 (zero)

```
   1 2 3 4    jumper setting in the remote
HC=========
A  0 0 0 0
B  0 0 0 1
C  0 0 1 0
D  0 0 1 1
E  0 1 0 0
F  0 1 0 1
G  0 1 1 0
H  0 1 1 1
I  1 0 0 0
J  1 0 0 1
K  1 0 1 0
L  1 0 1 1
M  1 1 0 0
N  1 1 0 1
O  1 1 1 0
P  1 1 1 1
```

If jumper 5 is open (1) than add 5 to the remote code.

Examples:

Jumper	Button	Code
1 2 3 4 5		
1 0 0 0 0	1	I1
1 0 0 0 1	1	I6

7.5. Phenix, IDK YC-4000S switch settings

Utiliser ELRO AB400D
Remarque : Le code HC (House Code A-P) correspond au code maison utilisé dans l'application, et n'a aucune relation avec les codes A, B, C, D, E correspondant aux boutons des télécommandes.

HC	switch 1	2	3	4
A	0	0	0	0
B	0	0	0	1
C	0	0	1	0
D	0	0	1	1
E	0	1	0	0
F	0	1	0	1
G	0	1	1	0
H	0	1	1	1
I	1	0	0	0
J	1	0	0	1
K	1	0	1	0
L	1	0	1	1
M	1	1	0	0
N	1	1	0	1
O	1	1	1	0
P	1	1	1	1

DC	switch 5	A	B	C	D
1	0	0	0	0	0
2	0	0	0	1	0
3	0	0	1	0	0
4	0	0	1	1	0
5	0	1	0	0	0
6	0	1	0	1	0
7	0	1	1	0	0
8	0	1	1	1	0
9	1	0	0	0	0
10	1	0	0	1	0
11	1	0	1	0	0
12	1	0	1	1	0
13	1	1	0	0	0
14	1	1	0	1	0
15	1	1	1	0	0
16	1	1	1	1	0
17	0	0	0	0	1
18	0	0	0	1	1
19	0	0	1	0	1
20	0	0	1	1	1
21	0	1	0	0	1
22	0	1	0	1	1
23	0	1	1	0	1
24	0	1	1	1	1
25	1	0	0	0	1
26	1	0	0	1	1
27	1	0	1	0	1
28	1	0	1	1	1
29	1	1	0	0	1
30	1	1	0	1	1
31	1	1	1	0	1
32	1	1	1	1	1

7.6. HE105 switch settings

Unitnr	HE105 switches				
	1	2	3	4	5
0	0	0	0	0	0
1	0	0	0	0	1
2	0	0	0	1	0
3	0	0	0	1	1
4	0	0	1	0	0
5	0	0	1	0	1
6	0	0	1	1	0
7	0	0	1	1	1
8	0	1	0	0	0
9	0	1	0	0	1
10	0	1	0	1	0
11	0	1	0	1	1
12	0	1	1	0	0
13	0	1	1	0	1
14	0	1	1	1	0
15	0	1	1	1	1
16	1	0	0	0	0
17	1	0	0	0	1
18	1	0	0	1	0
19	1	0	0	1	1
20	1	0	1	0	0
21	1	0	1	0	1
22	1	0	1	1	0
23	1	0	1	1	1
24	1	1	0	0	0
25	1	1	0	0	1
26	1	1	0	1	0
27	1	1	0	1	1
28	1	1	1	0	0
29	1	1	1	0	1
30	1	1	1	1	0
31	1	1	1	1	1

7.7. HQ COCO-20

Remarque : Le code HC (House Code A-P) correspond au code maison utilisé dans l'application, et n'a aucune relation avec les codes A, B, C, D, E correspondant aux boutons des télécommandes.

	6	7	8	9	<== switches in module
HC					
A	0	0	0	0	
B	0	0	0	1	
C	0	0	1	0	
D	0	0	1	1	
E	0	1	0	0	
F	0	1	0	1	
G	0	1	1	0	
H	0	1	1	1	
I	1	0	0	0	
J	1	0	0	1	
K	1	0	1	0	
L	1	0	1	1	
M	1	1	0	0	
N	1	1	0	1	
O	1	1	1	0	
P	1	1	1	1	

	10	1	2	3	4	5		10	1	2	3	4	5	<== switches in module
DC							DC							
1	0	0	0	0	0	0	33	1	0	0	0	0	0	
2	0	0	0	0	0	1	34	1	0	0	0	0	1	
3	0	0	0	0	1	0	35	1	0	0	0	1	0	
4	0	0	0	0	1	1	36	1	0	0	0	1	1	
5	0	0	0	1	0	0	37	1	0	0	1	0	0	
6	0	0	0	1	0	1	38	1	0	0	1	0	1	
7	0	0	0	1	1	0	39	1	0	0	1	1	0	
8	0	0	0	1	1	1	40	1	0	0	1	1	1	
9	0	0	1	0	0	0	41	1	0	1	0	0	0	
10	0	0	1	0	0	1	42	1	0	1	0	0	1	
11	0	0	1	0	1	0	43	1	0	1	0	1	0	
12	0	0	1	0	1	1	44	1	0	1	0	1	1	
13	0	0	1	1	0	0	45	1	0	1	1	0	0	
14	0	0	1	1	0	1	46	1	0	1	1	0	1	
15	0	0	1	1	1	0	47	1	0	1	1	1	0	
16	0	0	1	1	1	1	48	1	0	1	1	1	1	
17	0	1	0	0	0	0	49	1	1	0	0	0	0	
18	0	1	0	0	0	1	50	1	1	0	0	0	1	
19	0	1	0	0	1	0	51	1	1	0	0	1	0	
20	0	1	0	0	1	1	52	1	1	0	0	1	1	
21	0	1	0	1	0	0	53	1	1	0	1	0	0	
22	0	1	0	1	0	1	54	1	1	0	1	0	1	
23	0	1	0	1	1	0	55	1	1	0	1	1	0	
24	0	1	0	1	1	1	56	1	1	0	1	1	1	
25	0	1	1	0	0	0	57	1	1	1	0	0	0	
26	0	1	1	0	0	1	58	1	1	1	0	0	1	
27	0	1	1	0	1	0	59	1	1	1	0	1	0	
28	0	1	1	0	1	1	60	1	1	1	0	1	1	
29	0	1	1	1	0	0	61	1	1	1	1	0	0	
30	0	1	1	1	0	1	62	1	1	1	1	0	1	
31	0	1	1	1	1	0	63	1	1	1	1	1	0	
32	0	1	1	1	1	1	64	1	1	1	1	1	1	

Examples:

Switch	6	7	8	9	0	1	2	3	4	5
A1	0	0	0	0	0	0	0	0	0	0
A15	0	0	0	0	1	1	1	0	0	0
N2	1	1	0	1	0	0	0	1	0	0
N11	1	1	0	1	1	0	1	0	0	0

0 = switch off
1 = switch on

7.8. MDREMOTE V106, V107

This MDREMOTE has been tested.
http://www.ultraleds.co.uk/mini-dimmer-with-rf-remote-control-12-or-24v-dc-12a-maximum.html

The RFXtrx433 can only transmit MDREMOTE commands.

Procedure to find the ID of the MDREMOTE: In RFXmngr enable the X10 protocol and enable "Undec on". Press a button on the MDREMOTE remote.
The undecoded message contains the ID in the 2nd and 3rd byte, for example:
UNDECODED NEC:20**AF68**01D1
The 2 bytes after 20 is the MDREMOTE ID, in this example AF 68

7.9. MDREMOTE V108, EKAB-10KRF

This MDREMOTE has been tested.
- http://www.ledstripkoning.nl/accessoires/dimmers-wit/draadloze-dimmer-10-knops-rf/

Procedure to find the ID of the MDREMOTE: In RFXmngr enable the Lighting4 protocol and enable "Undec on". Press a button on the MDREMOTE remote.
The undecoded message contains the ID in the 2nd and 3rd byte, for example:
UNDECODED ARC:201A0703FCFC
The 2 bytes after 20 is the MDREMOTE ID, in this example 1A 07

7.10. Aoke relay

The Aoke 12V DC - 315MHz or 433.92MHz 1 channel relay is available at www.aliexpress.com store No.110758. Indicate clearly the required frequency when ordering!

The 1 channel learning relays can be used, see the picture below.
For example, for 1 relay:
http://www.aliexpress.com/store/product/DC12V-1CH-wireless-switch-remote-control-system-remote-control-switch-for-guard-door-window-curtain/110758_936534863.html
or for 6 relays:
http://www.aliexpress.com/store/product/ak-DC12V-1CH-RF-rocker-switch-livolo-switch-system-in-china-j-12a-108d-smart-house/110758_1007306574.html



The jumper next to the learning button defines to operating mode:
Open = momentary
1-2 = toggle mode
2-3 = on/off mode (to be used with the RFXtrx)

7.11. SEAV TXS4

The ID can be found using RFXmngr and enable only ByronSX and undec on.

Or calculate the ID:
A SW1 switch on = 1

```
      |---------SW1------------|
       1 2 3   4 5 6 7   8 9 10
    0 x x x | x x x x | x x x 0 | 0 1 0 1
```

For example SW1 = on off on off on off on off on off
The ID will become:

```
      |---------SW1-----------|
       1 2 3   4 5 6 7   8 9 10
    0 1 0 1 | 0 1 0 1 | 0 1 0 0 | 0 1 0 1  this is hex: 5 5 4 5
```

7.12. Comment obtenir l'ID du bandeau de led RGB dx.com

Flasher le RFXtrx433 avec le firmware Type2 pour permettre la réception de l'ID grâce au logiciel RFXmngr.
Dans le logiciel RFXmngr, activer uniquement le protocol LightwaveRF (AD).

```
----------------------------------------------
Packettype    = Lighting5
subtype       = RGB TRC02
Sequence nbr  = 5
ID            = FCC48B
Command       = On
Signal level  = 8
```

The ID is: FC C4 8B

Si le firmware Type2 ne supporte pas votre périphérique, essayez en utilisant le firmware Type1/ext (Voir chapitre 2.2)

7.13. How to find the dx.com RGB LED strip driver ID (rev. 2)

Valid for the old TRC02 remote with 3 batteries and ebay.com 191481664563.

In RFXmngr enable only the Lighting4 protocol.

```
----------------------------------------------
Packettype    = Lighting4
subtype       = PT2262
Sequence nbr  = 29
Code          = 161C84
```

The ID is: 16 1C

7.14. How to find the Eurodomest ID

You can assign a random ID to the Eurodomest. If you want to use the same ID as the remote you can find the ID of the remote using RFXmngr.
Start RFXmngr and enable only the Lighting4 protocol.
Press a button on the remote and you will receive a message like:

```
----------------------------------------------
Packettype    = Lighting4
subtype       = PT2262
Sequence nbr  = 12
Code          = 6DFE0F
```

The ID is: 6 DF E0

Note: Eurodomest can also be controlled using ARC.

7.15. How to find the Screenline ID

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 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

7.16. How to find the Avantek remote ID

You can find the ID of the remote using RFXmngr.
Start RFXmngr and enable only the Lighting4 protocol.
Press a button on the remote and you will receive a message like:

```
Packettype    = Lighting4
subtype       = PT2262
Sequence nbr  = 3
Code          = 122336 decimal:1188662
S1- S24  = 0001 0010 0010 0011 0011 0110
Pulse         = 280 usec
Signal level  = 7  -64dBm
```

The ID to be used is 1 22 33

8. commande Blyss

Certains périphériques Blyss comme les moteurs nécessitent des commandes spéciales incluant un numéro de séquence. Pour simplifier 0,1,2,3,4,0,1,....
Ce numéro de séquence est créé par les télécommandes Blyss, mais aussi par le RFXtrx433.

Si vous utilisez une télécommande Blyss en parallèle, il est possible qu'ensuite l'application (Homeseer, Domoticz, DomotiGa…) utilisant le RFXtrx433 ne soit pas synchronisée avec votre périphérique Blyss. Il faudra alors envoyer plusieurs commandes afin de resynchroniser le module.

Le problème est le même si vous utilisez le RFXtrx433 pour piloter le module Blyss et que vous utilisez ensuite la télécommande. Celle-ci ne fonctionnera qu'après s'être resynchronisée, nécessitant parfois l'émission de plusieurs commandes avant que le périphérique ne fonctionne.

9. Somfy RTS

Les périphériques Somfy RTS* peuvent être piloté uniquement par le RFXtrx433E / RFXtrx433XL. (Pas par le RFXtrx433 simple)
La version RFXtrx433E/RFXtrx433XL intègre une extension matérielle permettant la gestion du protocole RFY utilisé par les périphériques Somfy RTS.
L'émetteur **433.42** Mhz se trouvant dans le transceiver est utilisé pour contrôler les équipements SOMFY RTS sur une grande distance et à travers les murs.
L'émetteur 433.92 Mhz du transceiver est utilisé pour interagir avec tous les autres équipements contrôlables par le RFXtrx433E/RFXtrx433XL.

Pour associer un périphérique Somfy :
* Sélectionner un identifiant unique (ID) et un code unité (unitcode) pour le périphérique RFXCOM RFY.
* Déconnecter l'alimentation de tous les modules Somfy RTS sauf celui à associer.
* Appuyer sur le bouton d'association pendant 2 secondes sur la télécommande Somfy d'origine jusqu'à ce que le périphérique Somfy réagisse.
* Transmettre un code de programmation avec le RFXtrx433E/RFXtrx433XL. Le périphérique Somfy doit réagir pour confirmer la prise en compte de l'association.

La télécommande RFXCOM RFY est alors enregistrée dans le RFXtrx433E/RFXtrx433XL
Il est possible d'enregistrer jusqu'à 40 télécommande Somfy sur le RFXtrx433E/RFXtrx433XL.
Les télécommandes enregistrées peuvent être supprimées en utilisant le logiciel RFXmngr.

Les périphériques Somfy peuvent être contrôlés par plusieurs applications différentes si l'identifiant ID et le code unité unitcode est utilisé.
Par exemple, si un périphérique RTS est associé avec le RFXtrx433E/RFXtrx433XL en utilisant le RFXMngr avec l'ID 1 02 03 et le code Unité 1, le périphérique pourra être contrôlé dans Homeseer en utilisant les mêmes informations.

Usage :
Pour contrôler les modules Somfy Centralis, utilisez les commandes > 2 secondes (RFY2).

Somfy Tilt motors can be configured in 2 modes, US or European.
To toggle between modes, press the Reset/ Prog button 2 s. Repeat until the LED, according to the desired configuration, lights up. Store by pressing 2 s.

To control Venetian Blinds in US mode:
- up/down (transmit < 0.5 seconds): open or close
- up/down (transmit > 2seconds): change angle

To control Venetian Blinds in Europe mode:
- up/down (transmit < 0.5 seconds): change angle
- up/down (transmit > 2seconds): open or close

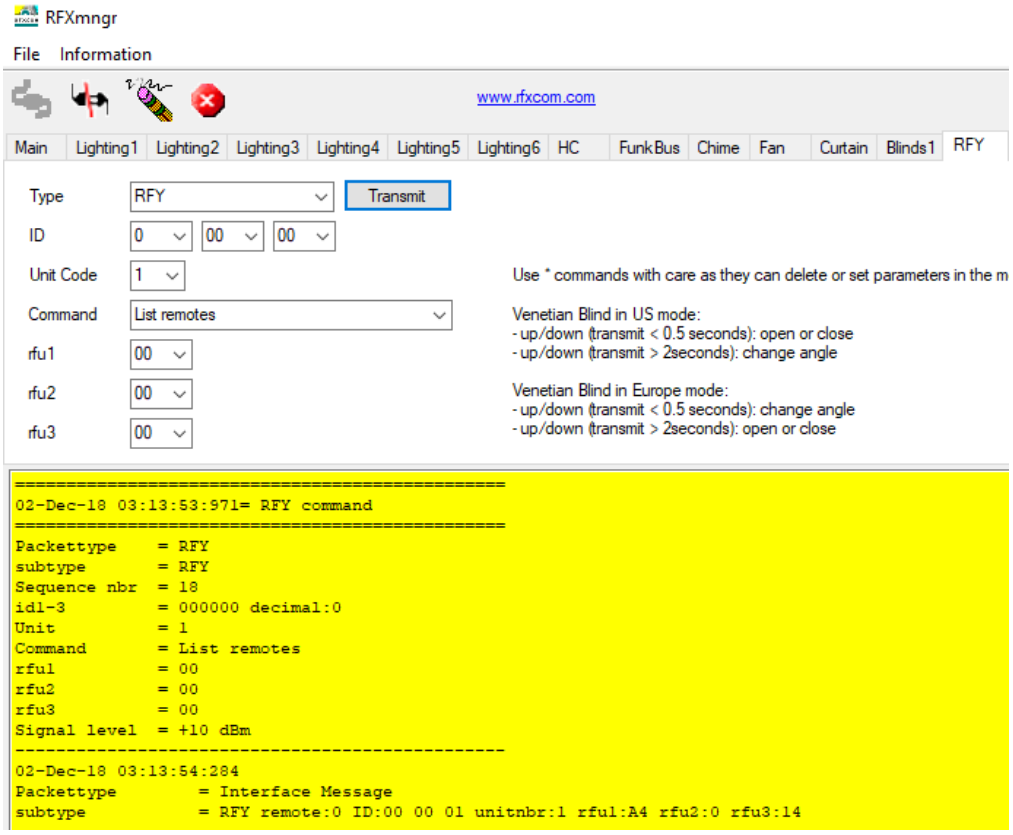
Somfy RTS motors have a limited number of memory locations for the remotes. Some have a max of 10 remotes. If you try to pair the 11th remote (can be a RFXtrx433E/RFXtrx433XL ID-unit) the motor reacts as if the pairing was successful but there is no response on an up/down command. To solve this, reset the motor to remove all remotes.

* Somfy RTS est une marque déposée de la société Somfy System, Inc.

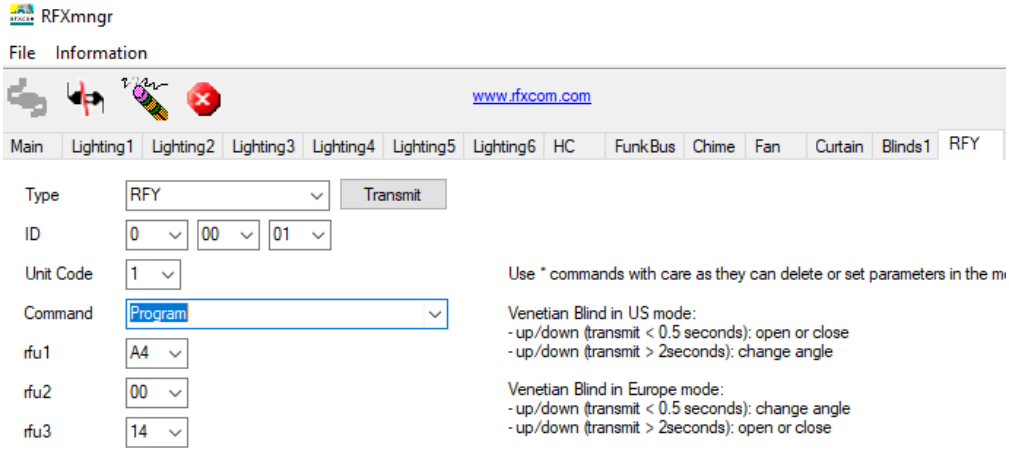
9.1. How to move RFY devices to another RFXtrx433E or RFXtrx433XL

Important: If an RFY devices is moved to another RFXtrx433E/XL do not use the old RFXtrx433E/XL to control the RFY devices.
Because the rolling code will become out of sync with the Somfy device.

Step 1: List all RFY devices in the “old” RFXtrx433E or RFXtrx433XL.



Step 2: Connect the “new” RFXtrx433E or RFXtrx433XL.
Select the ID, Unit Code, rfu1, rfu2 and rfu3 values.
Transmit a Program command. The values are now programmed in the “new” RFXtrx and the Somfy device can be controlled with this RFXtrx.
Transmit an Up and Down command to be sure the motor is no longer in program mode!



10. BlindsT6

Pour ajouter un émetteur RFXtrx433/E/XL (protocole Blinds T6) au moteur du volet :

- appuyer sur la touche "program" (P2) de la télécommande d'origine 2 fois ==> 2 bips
- transmettre la commande "confirm" avec le RFXtrx433/E/XL ==> 5 bips de confirmation

10.1. Dooya DT52E, DT82TV, DT82TN

- Select a random ID different from all zeroes and a unit code 1 to 15
- Press the program button on the motor until the LED lights up
- Transmit a Confirm command
- The LED on the motor starts blinking
- Transmit again a Confirm command
- The LED on the motor blinks 5 times
- The motor can be controlled now by the RFXtrx433/E/XL

11. ID switches Casafan and Lucci Air fans

Select the ID for switch settings:

ID	Remote switches			
	1	2	3	4
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
A	1	0	1	0
B	1	0	1	1
C	1	1	0	0
D	1	1	0	1
E	1	1	1	0
F	1	1	1	1

For LucciAir AC fan: 0 = ON
For Casafan and LucciAir DC fan: 1 = ON

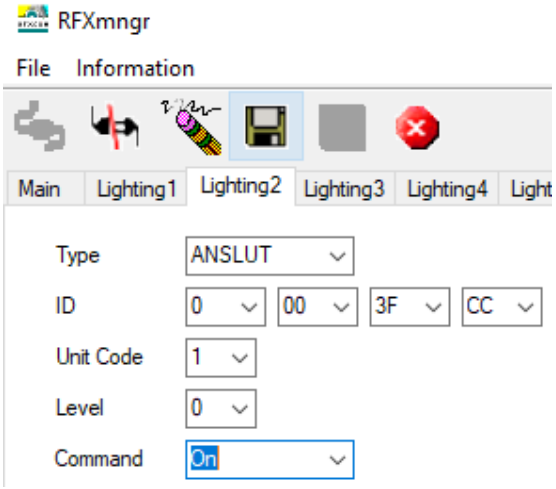
12. Transmit Funkbus (Insta, Gira, Jung, Berker)

With Pro2 or ProXL1 firmware you can transmit Funkbus commands using ID : 3F CC.
If the Home Automation application has Funkbus control not implemented, you can use an ANSLUT device instead.
The 1st digit of the ID indicates the Group.
0 = A,
1 = B,
2 = C,
3 = Scenes

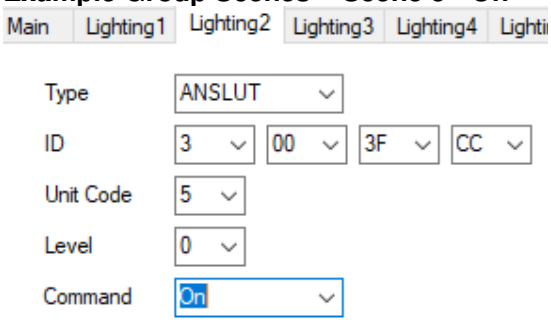
The last 2 bytes are the remote ID: 3F CC.

For de groups A, B en C: Unit code 1-8 = channel 1-8
For group Scenes (3) : Unit code 1-5 = scene 1-5.

Example Group A - Channel 1 - On



Example Group Scenes – Scene 5 - On



13. Transmit undecoded ARC commands.

Plug-in modules or other equipment with a PT2262 can be controlled using Lighting4.
There are a lot of brands using the PT2262 and some of them use the same timing (350) as used by the ARC devices but a different protocol definition.

Messages will be received as undecoded ARC messages if the protocol definition does not match the definition of the ARC protocol. Remote commands are received as ARC commands with a wrong house and device code and/or command code or as undecoded ARC messages if “undec on” is enabled. Decoding of these remotes is therefore not possible because they overlap the ARC protocol partly.
But transmitting these commands is possible using the Lighting4 command.

So, if we receive this command UNDECODED ARC:18014403:
(18 is not used)

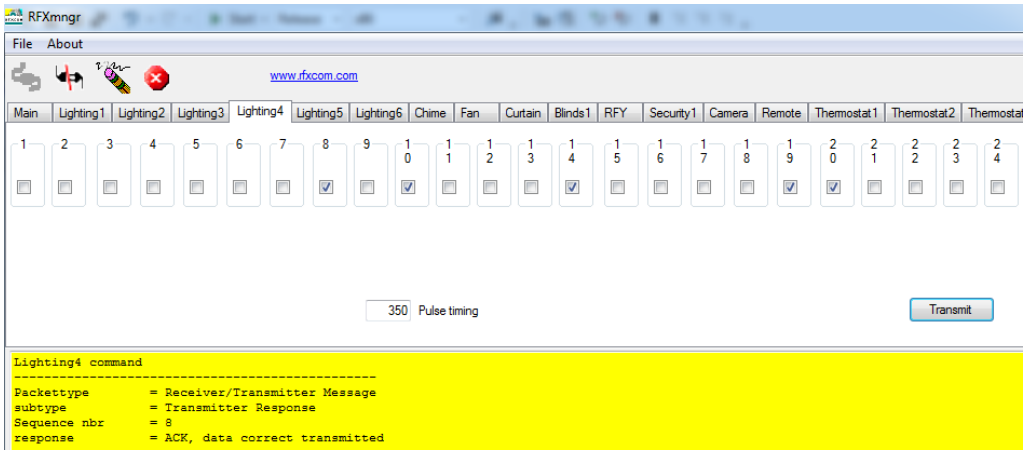
hex to binary table

```
0=0  0  0  0
1=0  0  0  1
2=0  0  1  0
3=0  0  1  1
4=0  1  0  0
5=0  1  0  1
6=0  1  1  0
7=0  1  1  1
8=1  0  0  0
9=1  0  0  1
A=1  0  1  0
B=1  0  1  1
C=1  1  0  0
D=1  1  0  1
E=1  1  1  0
F=1  1  1  1
```

0 1 4 4 0 3 = selection box 0000 0001 0100 0100 0000 0011
Not selected = 0, box selected = 1

And the Lighting4 command contains the same “undec code” 01 44 03:
Lighting4 command:09 13 00 04 **01 44 03** 01 5E 00
pulse timing is 350 = hex 015E

Another example:
For this command UNDECODED ARC:18014430 set on the Lighting4 tab in RFXmngr selection box 1 to 24 to 0 1 4 4 3 0 = 0000 0001 0100 0100 0011 0000



14. Poêle et insert à granulés/pellets MCZ.

RFXtrx433/RFXtrx433E:
Dans le fichier archive zip firmware Type2, qui est disponible dans la page de téléchargement du site, se trouve le firmware speciale RFXtrxMCZ.hex. Celui-ci permet le décodage de l'ID de la télécommande MCZ.
Flashez le fichier RFXtrxMCZ.hex sur le RFXtrx433/E/XL et démarrez l'application RFXmngr.

RFXtrx433XL:
In RFXmngr select Receiver Freq 434.50 and enable MCZ

A chaque commande transmise par la télécommande MCZ, l'application RFXmngr doit recevoir les informations comme ci-dessous.

Cet exemple donne l'ID égal à 0x81 0x3F 0x22

```
Packettype    = Thermostat4
subtype       = MCZ pellet stove 2 fans model
Sequence nbr  = 0
ID            = 0x813F22 decimal:8470306
Beep          = Yes
Fan1 speed    = 1
Fan2 speed    = 7
Flame power   = 1
Command       = Off
Signal level  = 6  -72dBm
```

Reflashez ensuite le RFXtrx433/RFXtrx433E avec le firmware Type2 ou Ext et vous pouvez piloter le poêle/insert MCZ en utilisant l'ID de votre télécommande.

Important : Il est impératif d'enlever les piles de la télécommande MCZ afin de s'assurer que le RFXtrx433/E/XL et la télécommande ne fonctionnent pas en même temps!

15. Lighting4 devices

15.1. Proluxx projection screen

Use Lighting4 with a pulse timing of 360

```
UP      1110 1101 0101 1001 0101 0010    ED 59 52
STOP    1110 1101 0101 1001 0101 1000    ED 59 58
DOWN    1110 1101 0101 1001 0101 0100    ED 59 54
RESET   1110 1101 0101 1001 0101 0001    ED 59 51
```

15.2. Kingpin (KP100) projection screen

Use Lighting4 with a pulse timing of 1040

```
UP              1110 0001 0100 0010 0010 0010        E1 42 22
STOP            1110 0001 0100 0010 0010 0100        E1 42 24
DOWN            1110 0001 0100 0010 0010 1000        E1 42 28
PROGRAM         1110 0001 0100 0010 0010 0001        E1 42 21
```

15.3. Mercury remote control mains sockets

http://mercury.avsl.com/product?range=ME5124
Use Lighting4 with a pulse timing of 188

```
1 OFF   01000100010101010011 1100
1 ON    01000100010101010011 0011

2 OFF   01000100010101011100 1100
2 ON    01000100010101011100 0011

3 OFF   01000100010101110000 1100
3 ON    01000100010101110000 0011

4 OFF   01000100010111010000 1100
4 ON    01000100010111010000 0011

5 OFF   01000100011101010000 1100
5 ON    01000100011101010000 0011
```

15.4. Conrad 034911 sockets

http://www.conrad.nl/ce/nl/product/034911/Draadloze-schakelaarset-5-delig
Use Lighting4 with a pulse timing of 425

Off = last 2 digits: 00
ON = last 2 digits: 01

```
Group   Unit
I       1 OFF   00 01 01 01 00 01 01 01 01 01 01 00
II      1 OFF   01 00 01 01 00 01 01 01 01 01 01 00
III     1 OFF   01 01 00 01 00 01 01 01 01 01 01 00
IV      1 OFF   01 01 01 00 00 01 01 01 01 01 01 00

I       1 OFF   00 01 01 01 00 01 01 01 01 01 01 00
I       2 OFF   00 01 01 01 01 00 01 01 01 01 01 00
I       3 OFF   00 01 01 01 01 01 00 01 01 01 01 00
I       4 OFF   00 01 01 01 01 01 01 00 01 01 01 00

I       1 OFF   00 01 01 01 00 01 01 01 01 01 01 00
I       1 ON    00 01 01 01 00 01 01 01 01 01 01 01
```

15.5. Sonoff

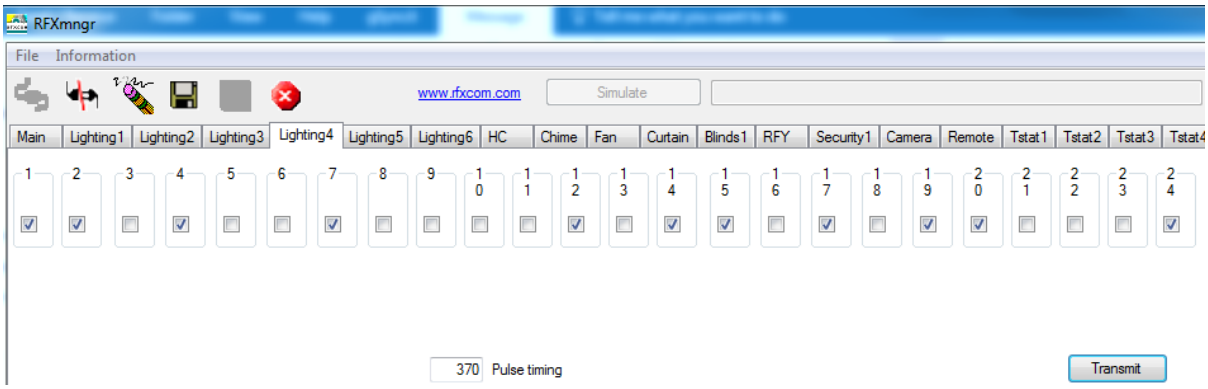
All Sonoff 433MHz RF receiver devices can be controlled by the RFXtrx433/E/XL using Lighting4 with a pulse timing of 370usec.

The 4 button Sonoff Lighting4 remote code:

The last digit indicates the button:
A 0001 hex 1
B 0010 hex 2
C 0100 hex 4
D 1000 hex 8

The first 5 digits are the ID. Here an example of ID=D216B button=A

Packettype = Lighting4
subtype = PT2262
Sequence nbr = 1
Code = D216B1 decimal:13768369
S1- S24 = 1101 0010 0001 0110 1011 0001
Pulse = 370 usec
Signal level = 8 -56dBm



The Lighting4 commands can be used for example to control the 4 relays in a Sonoff 4CH Pro https://www.banggood.com/SONOFF-4CH-Pro-10A-2200W-2_4Ghz-433MHz-RF-InchingSelf-LockingInterlock-Smart-Home-p-1153324.html

15.6. PT2262 and EV1527 oscillator resistors accepted

For the PT2262 use a 3M3 oscillator resistor
For the EV1527 a 220K, 270K or 390K oscillator resistor can be used.

16. Receive and Transmit RAW data

The Pro firmware can receive and transmit RAW data. This can be used to replay received data received from a remote. Note that this can only be used for a protocol with fixed code and rolling code cannot be used.

It is unknown if and how this is implemented in Home Automation applications!

Here an example of a packet received from an ARC remote in RFXmngr:

```
RAW Packet:
687F0000010108047201320467013404670414 01BB013004740131046801310 46E0131046D013104700133047 0012D046B0
133046C013004720132046E013104690132046A0133046D0138046C0130046A041401B901310471041701B70133046A0133
046F012E0000
Packettype    = RAW Packet
Packet Length = 104
subtype       = RAW packet
Sequence nbr  = 0
Repeat        = 1
Nbr of pulses = 25
264  1138  306  1127  308  1127  1044  443  304  1140  305  1128  305  1134  305  1133  305  1136
307  1136  301  1131  307  1132  304  1138  306  1134  305  1129  306  1130  307  1133  312  1132
304  1130  1044  441  305  1137  1047  439  307  1130  307  1135  302  0
```

The last value of zero indicates a gap timeout and the real gap is greater than 8000. To replay this packet replace the last zero with a value greater than 8000.

To replay this in RFXmngr, create a text file with the content below and send it on the RAW transmit tab.

The first value is 0 which indicates it is a single packet
The next value (7 in this example) is the repeat count.
Do not set the repeat count too high to lower the risk to disturb other RF transmissions.

0
7
264
1138
306
1127
308
1127
1044
443
304
1140
305
1128
305
1134
305
1133
305
1136

the next values …..

307
1135
302
10000

If you receive multiple RAW packet with more than 62 pulses, try to find the gap. This is normally a higher value and smaller than 8000. Here an example with a gap value of 6600 and the next 6596.

```
RAW Packet:
FC7F00000001190491012C0491012A0492012A0490012A0492012704930128 01B7040601BC03FF01B903FF048F012C04930
1270493012801B9040001BB03FF01BC040101BB03FF01BB040019C8013C049301280491012A0492012904920127040940127
0494012701BE040201BA03FF01BD03FE0492012A0492012904920129 01BB03FF01BC03FF01BB040401BB03FF01BD040019C
401400490012B048F012D048F012A0495012704930127049401270 1BC040201BD03FF01BA03FF0493012804920128049501
2601BB040001BC040001B8040601B903FF01BC03FF19C801400492012A0493012804920129A0495012704940128049501280
1BA040501BD
Packettype    = RAW Packet
Packet Length = 252
subtype       = RAW packet
Sequence nbr  = 0
Repeat        = 0
Nbr of pulses = 62
281  1169  300  1169  298  1170  298  1168  298  1170  295  1171  296  439  1030  444  1023  441
1023  1167  300  1171  295  1171  296  441  1024  443  1023  444  1025  443  1023  443  1024  6600
316  1171  296  1169  298  1170  297  1170  295  1172  295  1172  295  446  1026  442  1023  445
1022  1170  298  1170  297  1170  297  443  1023  444  1023  443  1028  443  1023  445  1024  6596
320  1168  299  1167  301  1167  298  1173  295  1171  295  1172  295  444  1026  445  1023  442
1023  1171  296  1170  296  1173  294  443  1024  444  1024  440  1030  441  1023  444  1023  6600
320  1170  298  1171  296  1170  298  1173  295  1172  296  1173  296  442  1029  445
```

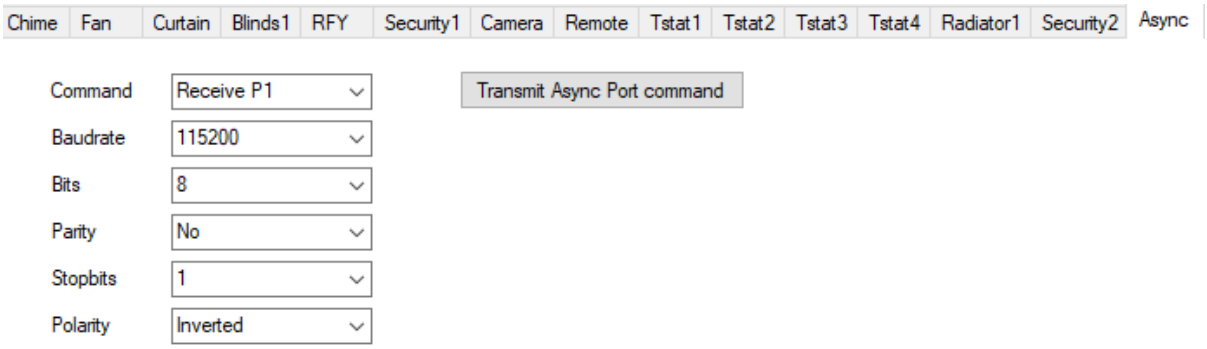
Create a text file to control this device in RFXmngr:

```
0
7
281
1169
300
1169
298
1170
298
1168
298
1170
295
1171
296
439
1030
444
1023
441
1023
1167
300
1171
295
1171
296
441
1024
443
1023
444
1025
443
1023
443
1024
6600
```

17. RFXtrx433XL - P1 smart meter connection

The RFXtrx433XL can be connected to the Dutch P1 smart meter with the DSMR P1 option board with RJ11 cable **or** DIY connection.

The connection can be tested in RFXmngr.
Select the correct parameters and click Set Async port.
Important: the P1 connection must be present!



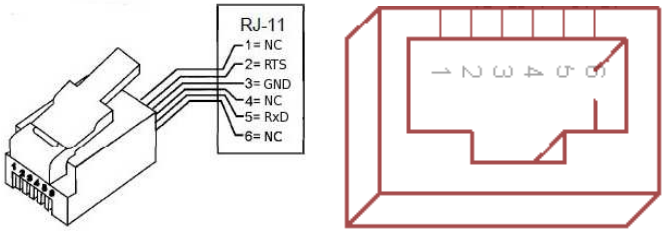
Select the correct parameters for your smart meter:

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

The smart meter connector type is RJ12. The Metering System holds a female connector, the customer can plug in a standard RJ12 or RJ11 plug.
RJ12 is a 6P6C (6 positions, 6 contacts)
RJ11 is a 6P4C (6 positions, 4 contacts) This one can be used to connect the RFXtrx433XL.

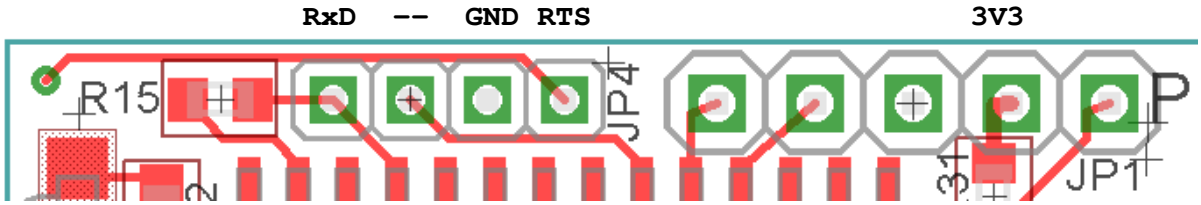
Pin #	Signal name	Description
1	+ 5V power	Power supply (not used by the RFXtrx433XL)
2	RTS	Request to Send
3	GND	Data GND
4	NC	Not connected
5	RxD	Data output to the RFXtrx433XL
6	GND power	Power GND (not used by the RFXtrx433XL)

RJ12 and RJ11 connections:



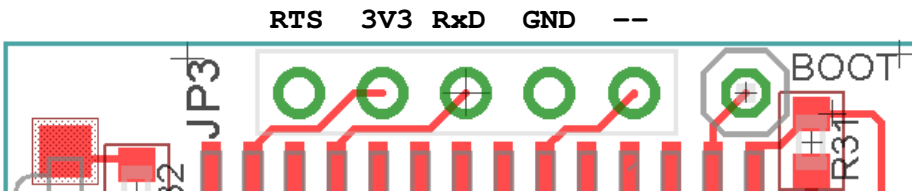
17.1. DIY P1 connection for RFXtrx433XL batch 3618 and 4018

1. Open the enclosure by removing the 4 screws.
2. Connect a 4k7 resistor between 3V3 and RxD.
3. Connect the RJ11 cable to the RFXtrx433XL PCB RFXtrx V5.0:
   RJ11-2 to RTS
   RJ11-3 to GND
   RJ11-4 not used
   RJ11-5 to RxD
4. Cut a few plastics from the upper side of the enclosure using a Stanley knife.
5. Cut also at the same position a few plastics from the bottom part.
6. Close the enclosure. First turn the screw left until you hear/feel a soft click, now turn the screw right and fix the screw (not too tight).



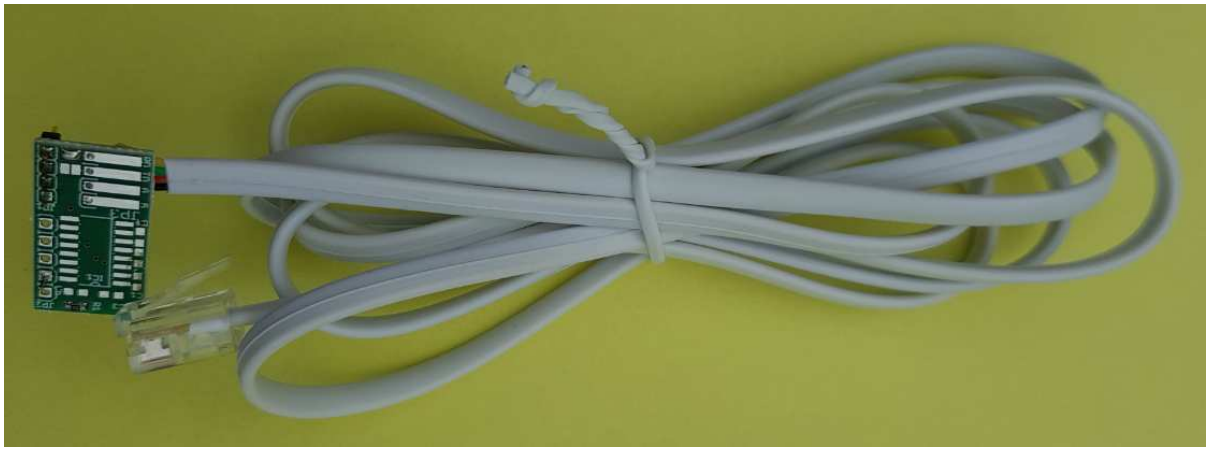
17.2. DIY P1 connection for RFXtrx433XL batch 4918 and later

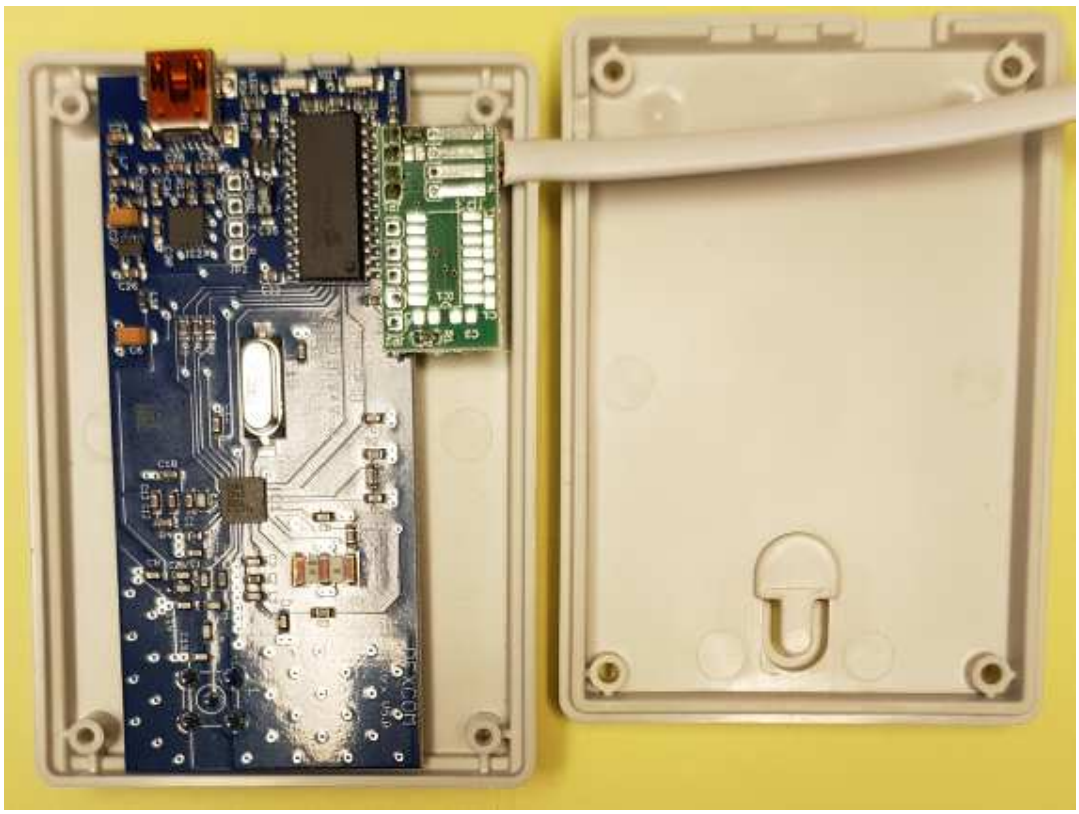
1. Open the enclosure by removing the 4 screws.
2. Connect a 3k3 resistor between 3V3 and RxD
3. Connect the RJ11 cable to the RFXtrx433XL PCB RFXtrx V5.1:
   RJ11-2 to RTS
   RJ11-3 to GND
   RJ11-4 not used
   RJ11-5 to RxD
4. Cut a few plastics from the upper side of the enclosure using a Stanley knife.
5. Cut also at the same position a few plastics from the bottom part.
6. Close the enclosure. First turn the screw left until you hear/feel a soft click, now turn the screw right and fix the screw (not too tight)



17.3. *P1 option PCB Type 1 for RFXtrx433XL batch 3618 and 4018*

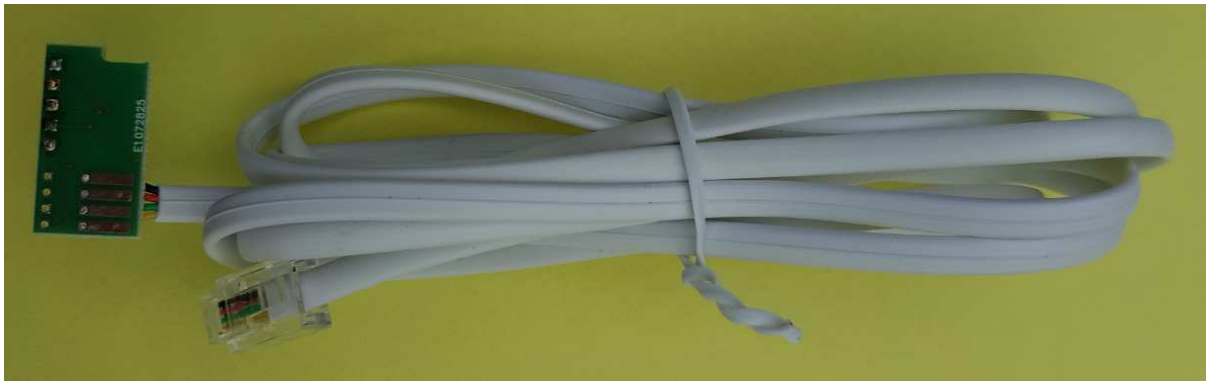
1. Open the enclosure by removing the 4 screws.
2. Solder the 5 pins of the P1 PCB to the RFXtrx433XL PCB RFXtrx V5.0.
   First solder 1 pin and check if the connector is fully on the RFXtrx433XL PCB.
   Than solder the remaining 4 pins.
3. Cut a few plastics from the upper side of the enclosure for the cable using a Stanley knife.
4. Cut also at the same position a few plastics from the bottom part.
5. Close the enclosure. First turn the screw counter clockwise until you hear/feel a soft click, now turn the screw clockwise and fix the screw (not too tight).





17.4. *P1 option PCB Type 2 for RFXtrx433XL batch 4918 and later*

1. Open the enclosure by removing the 4 screws.
2. Press the 5 pins of the P1 PCB into the RFXtrx433XL PCB RFXtrx V5.1.
   Use a wrench to push the connector into the PCB until the black parts of the Press-Fit connector is on the RFXtrx PCB.
3. Cut a few plastics from the upper side of the enclosure for the cable using a Stanley knife.
4. Cut also at the same position a few plastics from the bottom part.
5. Close the enclosure. First turn the screw counter clockwise until you hear/feel a soft click, now turn the screw clockwise and fix the screw (not too tight)





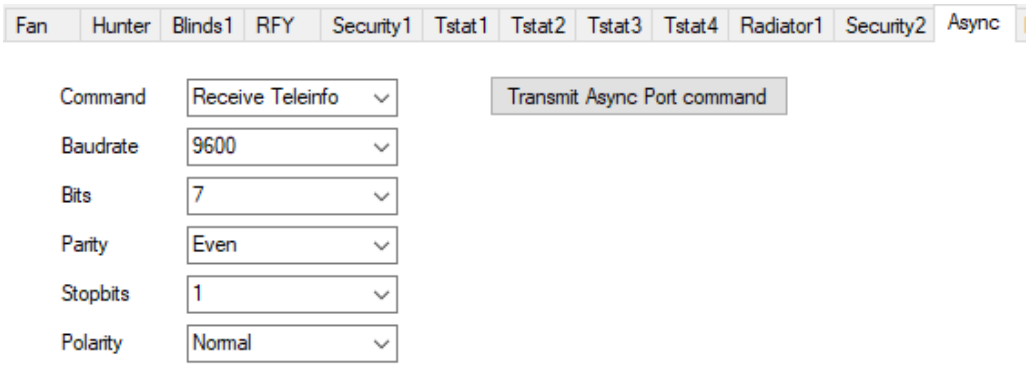
18. RFXtrx433XL - Teleinfo connection

The RFXtrx433XL can be connected to the French smart meter and needs a Teleinfo interface.
At the moment we only supply the Teleinfo interface option only for the RFXtrx version 5.1 (this is on the PCB) which is delivered starting batch 4918 and the later batches xx19 (xx=01 to 52).
The batch number is on the label on the backside of the enclosure.

This option cannot be added in the RFXtrx433XL batch 3618 or 4018!!

The connection can be tested in RFXmngr.
Select the correct parameters and click “Transmit Async Port command”.
Important: the Teleinfo connection must be present!

The setting is 1200, 7, Even, 1 and Normal polarity for the “historique” meter
The setting is 9600, 7, Even, 1 and Normal polarity for the new Linky meter



18.1. Teleinfo option PCB for RFXtrx433XL batch 4918 and later



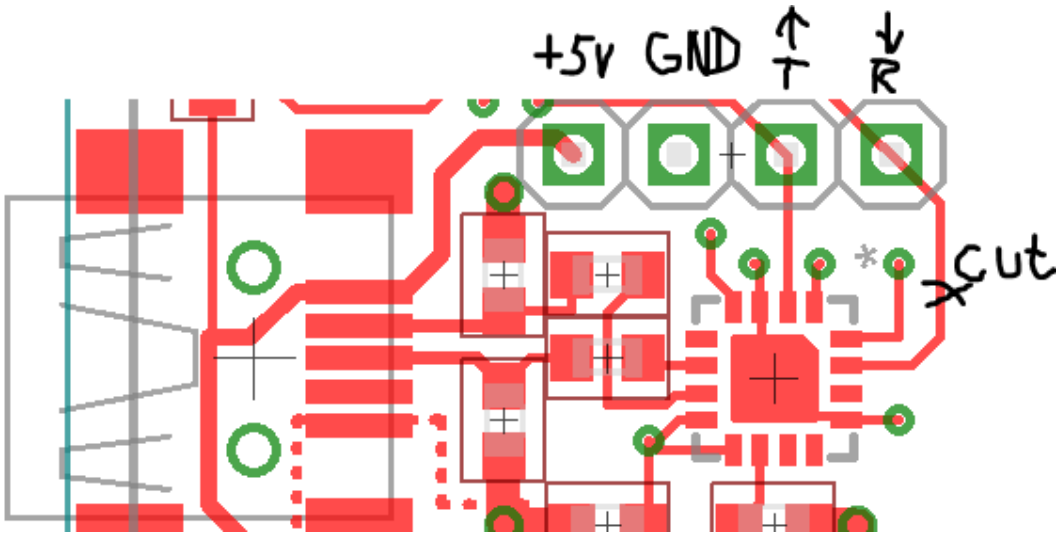
1. Open the enclosure by removing the 4 screws.
2. Press the 5 pins of the P1 PCB into the RFXtrx433XL PCB RFXtrx V5.1.
   Use a wrench to push the connector into the PCB until the black part of the Press-Fit connector is on the RFXtrx PCB.
3. Cut a few plastics from the upper side (only the raised edge) of the enclosure for the cable, using a Stanley knife.
4. Cut also at the same position a few plastics from the raised edge of the bottom part.
5. Close the enclosure. First turn the screw counterclockwise until you hear/feel a soft click, now turn the screw clockwise and fix the screw (not too tight)

19. RFXtrx433XL - Connection points for a serial interface

This connection can be used for a serial connection with the RFXtrx433XL instead of the USB interface.
The serial interface is using logic level of 5V maximum.
WARNING: Do NOT connect a RS232 interface that operates at +/-12Volts!!

Important: warranty is lost if this modification is used.

- Cut the PCB trace between the connection point R and the FT230X pin 15.
- Connect the serial interface to GND, T and R. Be sure to use a 3V3 or 5V logic level!
- The +5V can be used to power and external interface if required. In this case the RFXtrx433E must be powered by a 5V power supply connected to the USB interface. The +5V can also be an input for powering the RFXtrx433XL. Do not exceed +5V or the RFXtrx433XL will be destroyed.
- The serial interface is using 38400,N,8,1
- Be sure not to use a serial device that produces RF noise at 433MHz. A bad example of such a device is the USR-TCP232 LAN device.

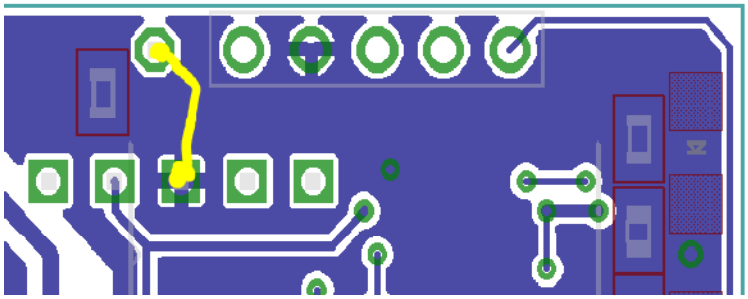


20. Recover from interrupted or wrong flash.

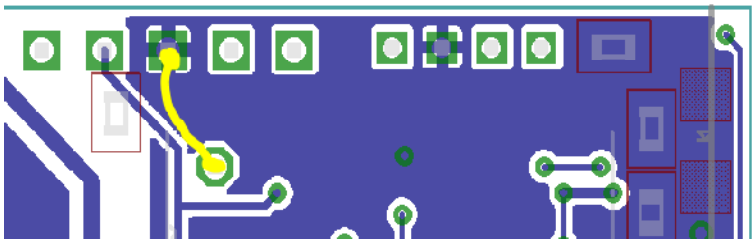
The RFXtrx can become in a loop after an interrupted flash or if you have flashed a wrong firmware. In this case the red LED stays on and no communication is possible.

1. Disconnect the USB,
2. Make a temporary connection (no soldering required) on the backside of the PCB as indicated below by the yellow connection,
3. Connect the USB,
4. Disconnect the temporary connection,
5. Start RFXflash and update the firmware.

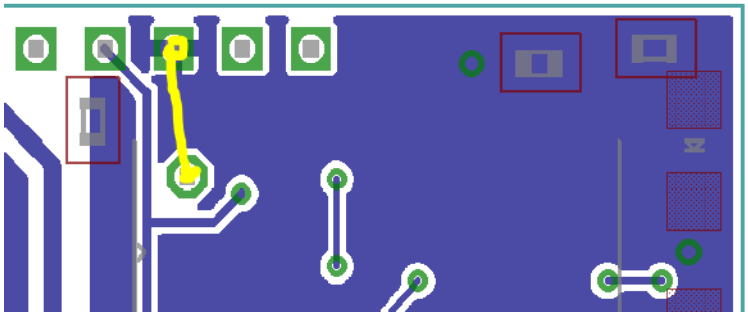
RFXtrx433XL V5.1



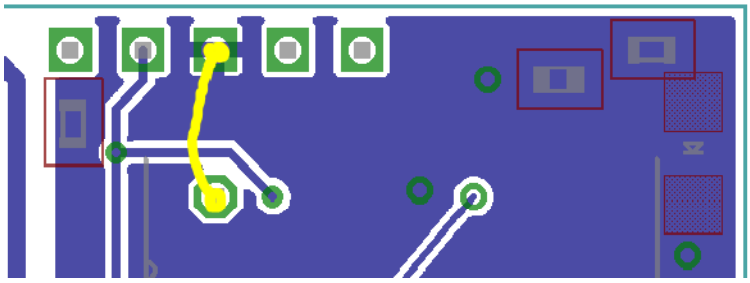
RFXtrx433XL V5.0



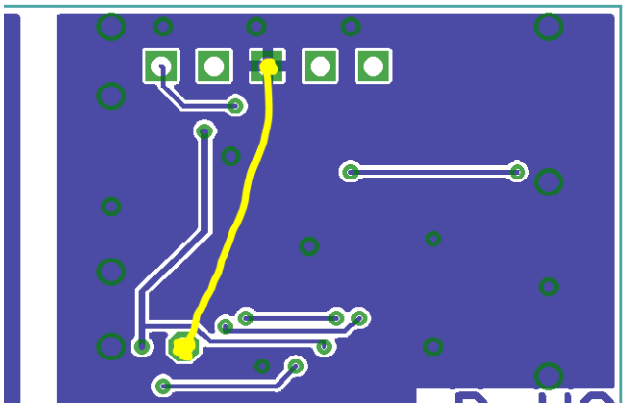
RFXtrx433E



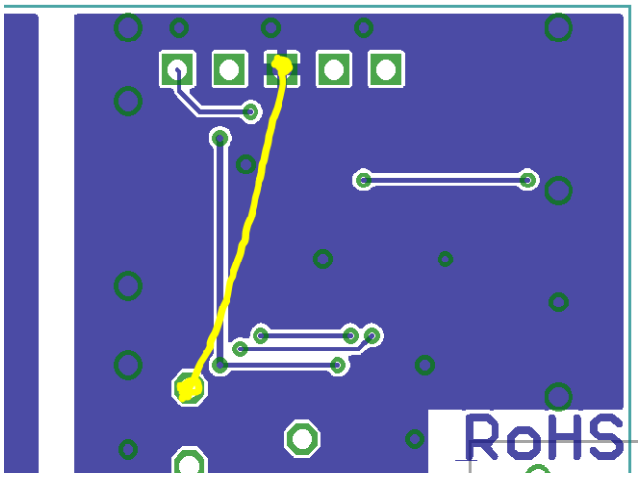
RFXtrx433



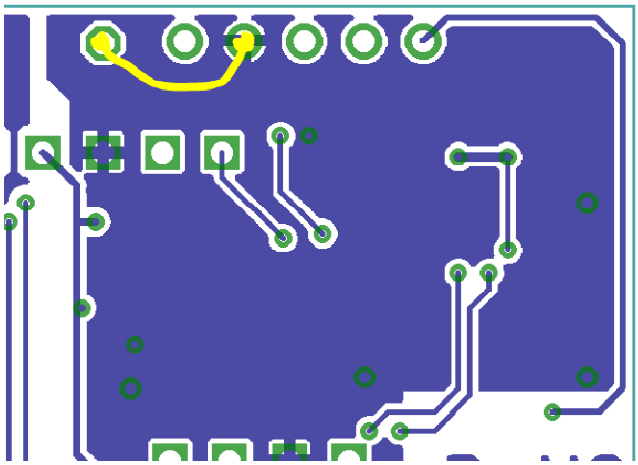
RFXtrx868X RFXtrxX V1.0 USB FT232



RFXtrx868X RFXtrxX V1.0 USB MCP2200



RFXtrx868XL RFXtrx V6.1 USB FT230QX



21. FAQ

21.1. La réception s'est arrêtée brutalement mais la transmission fonctionne toujours.

Le plus probable est un capteur qui émet en continue:

- Par exemple le capteur de détection de mouvement X10 MS13 ou un capteur météo avec des batteries presque vides.
- un capteur de météo extérieur qui subit des infiltrations d'eau.
- une télécommande avec un bouton appuyé en continu (un livre posé dessus par exemple).

Testez le RFXtrx avec une télécommande ou un sensor sur un autre emplacement (> 1 km) en utilisant RFXmngr sur un système Windows ou un laptop.

21.2. Est-ce que je peux augmenter la distance de réception/émission du RFXtrx?

Reportez-vous au chapitre 2.5 pour connaître le meilleur emplacement possible pour le RFXtrx.
Le tableau électrique n'est pas le meilleur endroit parce que les objets métalliques se situant autour vont absorber ou réfléchir les signaux RF.
Il est de plus conseillé de placer le RFXtrx loin des ordinateurs, routeurs, Raspberry Pi, … Ces équipements émettent des perturbations qui peuvent réduire fortement la sensibilité du RFXtrx.
Il est possible de connecter une autre antenne de 50 ohms 70cm/433 avec plus de gain:
Par exemple : http://www.ebay.com/itm/290979680030
Placer cette antenne dans un plateau métallique d'environ 30cm pour un résultat optimum.

21.3. Le module RFXtrx USB se déconnecte parfois.

Cela se passe principalement pour le raspberry PI avec une alimentation de faible qualité. La solution est d'utiliser un hub USB alimenté avec une alimentation de bonne qualité.
Cela peut arriver également si le câble USB longe un câble d'alimentation et qu'un équipement est mis en marche, provoquant un pic de courant. La solution est de séparer le câble USB de tous les autres câbles et/ou d'utiliser un hub USB alimenté par une alimentation de bonne qualité.

21.4. J'ai un périphérique en 433.92 Mhz, mais celui-ci n'est pas reçu.

En plus de la fréquence, le protocole utilisé et le type de modulation sont importants.
Reportez-vous au chapitre 2 pour la liste des équipements supportés.

21.5. La prise murale est commandée par une télécommande. Celle-ci est bien reçue par le RFXtrx, mais il ne commande pas la prise.

La télécommande émet plusieurs protocoles. Le protocole utilisé par la prise murale n'est pas reçu par le transceiver, mais les autres sont reçus.
Solution:

- Pour les équipements HomeEasy EU- HE8xx : réinitialiser le périphérique pour enlever la configuration (télécommandes appariées), et réaliser l'appairage de celui-ci avec le RFXtrx433E. L'appairage sera alors réalisé avec un des protocoles reçu par le transceiver.
- Pour les équipements FA500/PROmax: Configurer l'appairage entre le RFXtrx433E et le périphérique en utilisant un équipement IT et sélectionner un ID aléatoire. Le code reçu peut être utilisé pour connaître l'état du périphérique envoyé par la télécommande.

22. EC Declaration of Conformity

EC Declaration of Conformity CE

RFXCOM declares that the product:

RFXtrx

Brand: RFXCOM Type: RFXtrx433, RFXtrx433E, RFXtrx433XL

conforms with the essential requirements and other relevant provisions of the following directives and complies with the following standards applied:

R&TTE Directive 99/5/EC	EN 300 220-1 V2.4.1 (2012-05)
	EN 300 220-2 V2.4.1 (2012-05)
Low-voltage Directive 2006/95/EC	IEC 60950-1 (2005-12)
EMC Directive 2004/108/EC	EN 301 489-1 V1.9.2 (2011-09)
	EN 301 489-3 V1.4.1 (2002-08)

23. Précautions

- La gestion de signaux RF est soumise à perturbations. Il n'est pas conseillé d'utiliser cet équipement dans des systèmes qui peuvent entrainer la mise en danger de personnes.
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26. Traduction française

La traduction du manuel utilisateur a été effectuée par Mickael VIALAT (http://www.planete-domotique.com).

Cette traduction est proposée à titre d'information, en cas d'information contradictoire, c'est systématiquement la version anglaise disponible sur le site http://www.rfxcom.com/downloads.htm qui sera considéré comme prioritaire.

27. Historique des modifications

Version 0.0 – August 18, 2011
Initial version.
Version 1.0 – October 30, 2011
RFXflash under Mono added.
Version 2.0 – December 30, 2011
Updated for the production version with FTDI USB chip
Version 2.1 – January 18, 2012
Link for ACM to serial port added in Linux instruction.
EC Declaration of Conformity added
Version 2.2 – February 8, 2012
Protocols overview added
Screen dumps updated
Version 2.3 – February 16, 2012
Novatys planned
Version 2.4 – February 25, 2012
General information updated
Version 2.5 – March 1, 2012
Chapter added how to run RFXmngr or RFXflash on Linux.
Version 2.6 – March 14, 2012
Code tables added, Cresta, UPM added
Version 2.7 – March 15, 2012
Flash procedure updated
Version 2.8 – March 31, 2012
Phenix table added
Version 2.9 – March 31, 2012
AB400 and Phenix address extended
Version 2.10 – April 16, 2012
Linux USB - tty configuration updated
Version 2.11 – May 14, 2012
List of supported protocols updated.
Version 2.12 – June 8, 2012
Chapter added how to run RFXmngr or RFXflash on Mac OS
Version 2.13 – July 15, 2012
List of supported protocols updated
Version 2.14 – August 4, 2012
List of enabled protocols influence added
RFXtrx315 added
Version 2.15 – August 18, 2012
Enabled protocols table changed
Version 2.16 – August 26, 2012
Rubicson stektermometer added
ATI Remote Wonder II added
Version 2.17 – August 28, 2012
Table “sensitivity influenced” updated
Version 2.18 – September 18, 2012
Chapter 2.3 updated: BlindsT0 disables all other protocols
Version 2.19 – September 25, 2012
RFXFlash version required changed to 4.0.0.0
Version 2.20 – September 28, 2012
RF range reduction guide added
Version 2.21 – October 18, 2012
BlindsT2 and BlindsT3 added
Version 2.22 – October 24, 2012
Sartano added
Version 2.23 – October 31, 2012
Sensitivity table updated

Version 2.24 – November 7, 2012
Protocol table extended with the protocols to enable for receive
Version 2.25 – November 14, 2012
HE105 switch settings added
Version 2.26 – November 28, 2012
undec on explained
Version 2.27 – December 4, 2012
Use of Lighting4 commands for undec ARC
Brennenstuhl added
Version 2.28 – December 18, 2012
Receiver tab removed from RFXmngr
Version 2.29 – December 27, 2012
Lighting4 receive added
Version 2.30 – January 1, 2013
Raex motor added
Version 3.00 – January 4, 2013
RFXtrx433 Type1 and Type2 firmware added
Version 3.01 – February 4, 2013
Supported protocols list updated
Version 4.00 – February 21, 2013
Chapter 8 - Lighting4 screen updated for RFXmngr 11.0.0.0
Known Lighting4 chapter added
Version 4.01 – March 13, 2013
Receive of LaCrosse sometimes influenced by enabled Hideki
Version 4.02 – June 8, 2013
MDREMOTE LED dimmer added www.ultraleds.co.uk
Conrad RSL2 added
Energenie added
Version 4.03 – September 27, 2013
How to find the MDREMOTE ID (chapter 7.6)
WS1200 added
Byron SX Chime added
Version 4.04 – November 15, 2013
Maverick ET-732 added
Alecto SA30 added
Oregon EW109 added
Revolt added
Version 4.05 – December 5, 2013
Blyss command explanation added.
Lighting4 - Mercury added
Lighting5 – RGB controller added http://dx.com/p/rf-remote-touch-rgb-controller-130913
Version 4.06 – December 27, 2013
Chapter 2.2 updated
Version 4.07 – February 10, 2014
Chapter 7.8 Comment obtenir l'ID du bandeau de led RGB dx.com
Version 4.08 – March 20, 2014
ARC and Oregon3.0 updated in table 2.4.
Energenie 5-gang 429.950 added
Version 4.09 – April 4, 2014
BlindsT6 - DC106, YOODA, Röhrmotor24 RMF added
Version 4.10 – April 7, 2014
BlindsT7 - Forest added
Version 4.11 – April 28, 2014
RGB LED – clarified AD is LightwaveRF
Version 4.12 – May 21, 2014
Kambrook RF3672 added
RFY protocol added
Somfy programming instructions added

Supported protocol list RFXtrx433 updated.
Protocol list by function added
Version 4.13 – May 31, 2014
Opus TX300/Imagintronix Soil sensor added
Version 4.14 – June 18, 2014
Prega sensor added
Conrad 34911 Lighting4 coding added
Version 4.15 – June 25, 2014
Kambrook, Rubicson, Viking supported in ext firmware
Number of RFY remotes increased from 16 to 30
Version 4.16 – June 29, 2014
RFXmngr cannot be used on Linux
Version 4.17 – July 3, 2014
CoCo GDR2 added
Version 4.18 – July 14, 2014
Opus TX300 link added
Version 4.19 – July 25, 2014
Aoke relay added
Version 4.20 – August 25, 2014
Enabling protocols clearified.
Version 4.21 – September 5, 2014
Meade sensors added
Oregon BTHGN129 sensor added
Version 4.22 – September 18, 2014
Eurodomest added (NL - Action)
Byron MP001 added
WT0122 added
Procedures added to find the Eurodomest and TRC02 ver2 ID
Version 4.23 – September 24, 2014
Proove TSS330 fridge/freezer sensor added
Version 4.24 – October 9, 2014
BlindsT0 added in ext firmware
Alecto WS1700 and compatibles added
Version 4.25 – December 13, 2014
Smartwares radiator valve added
Proove TSS320 sensor added
Version 4.26 – January 2, 2015
SelectPlus200689101 White Chime (Action NL) added
Version 4.27 – January 6, 2015
SelectPlus200689103 Black Chime (Action NL) added
Version 4.28 – January 7, 2015
Proove outdoor sensors 311346 & 311501 added
Etekcity Wireless Remote Control Outlet Switch (US)
Version 5.00 – January 10, 2015
RFXmngr information updated
Copyright message updated
License chapter added
Version 5.01 – February 27, 2015
Chapter 2.5 Lighting4 receive is reduced with HomeEasy EU enabled.
Chamberlain tubular motor added
Sunpery blind motors added
DEA Systems receivers added
Envivo ENV-1348 chime added
Alecto WS4500 added

Version 5.02 – March 18, 2015
- 1byOne Easy Chime added
- BTX blind motors added
- Dolat DLM-1 blind motors added
- OTIO added

Version 5.03 – March 19, 2015
- TFA 30.3160 pool sensor added

Version 5.04 – April 14, 2015
- Chapter 4 updated with restrictions on Lighting4
- Siemens SF01 LF959RA50/LF259RB50/LF959RB50 extractor hood added
- Maplin N78KA added

Version 5.05 – May 2, 2015
- Dooya blind motors added
- Louvolite one touch motorised blinds added
- Alecto WS3500 added

Version 5.06 – May 4, 2015
- Current dx.com TRC02 LED drivers have a different protocol and are not supported.

Version 5.07 – June 1, 2015
- WH2 temperature humidity sensor added
- RGB LED controller http://www.ebay.com/itm/191481664563 (maybe dx.com 227892)

Version 5.08 – July 31, 2015
- Oregon MSR939 added
- ESMO blind motors added
- Brel blind motors added
- Blinds T6 type motors now also supported in Ext firmware
- Supported devices table 2.2.2. updated

Version 5.09 – Aug 12, 2015
- Luxaflex blind motors added

Version 5.10 – Aug 17, 2015
- JVS screen motors added
- Livolo NL link added

Version 5.11 – Aug 31, 2015
- ASA motors added

Version 5.12– Sept 14, 2015
- Home Confort added

Version 5.13– Oct 2, 2015
- Oregon GR101 received in Type1 firmware
- Conrad RSL sensors received in Type2 firmware

Version 5.14– Oct 7, 2015
- Quotidom blinds motor added

Version 5.15– Nov 06, 2015
- Banggood temp-hum sensor added
- Legrand CAD radio added

Version 5.16– Nov 26, 2015
- Proluxx codes corrected

Version 5.17– Dec 24, 2015
- RFXflash procedure updated
- Rubicson pool sensor 48.019 added
- Inovalley SM80 plant sensor added
- Lucci Air fan added

Version 5.18– Jan 1, 2016
- 1byone Drive Way alarm added

Version 5.19– Feb 6, 2016
- Avantek added
- ASP blinds motors BlindsT11 added
- Maverick ET-733 added
- Profiles PAC-326R Belcanto chime added
- HQ COCO-20 added

Version 5.20– Feb 18, 2016
- BlindsT12 Confexx CNF24-2435 added
- IT FA500, PROmax… added
- Ext2 fimware overview added in chapter 2
- Auriol Z31055B-TX added
- Chuango, Eminent security sensors added

Version 5.21– May 6, 2016
- Cartelectronic TIC and Encoder added
- FAQ chapter added

Version 5.22– May 14, 2016
- Corrected: TX95 is using the Rubicson protocol
- MDRemote V108 added

Version 5.23– June 10, 2016
- Motolux blinds motor added
- Auriol H13726, Hama EWS1500, Meteoscan W155/W160, Ventus WS155 added
- FAQ updated

Version 5.24– June 21, 2016
- Seav TXS4 added

Version 5.25– Aug 6, 2016
- ORNO added

Version 5.26– Sept 6, 2016
- Added: How to find the SEAV TXS4 ID

Version 5.27– Oct 09, 2016
- Westinghouse fan 7226640 added
- THN129 added
- TFA 30.3056 pool sensor added

Version 5.28– Oct 19, 2016
- MCZ pellet stove added
- Alecto SA33 added
- Smartwares RM174RF smoke detector added

Version 5.29– Nov 27, 2016
- SilverCrest 91089 added
- Mertik G6R-H4S added
- Marquant 943134
- MCZ pellet stove instructions added

Version 5.30– Dec 6, 2016
- Kerui security sensors added
- Screenline added

Version 5.31– Dec 15, 2016
- Flamingo smartwares SF501 added

Version 5.32– Jan 02, 2017
- Kangtai, Cotech added

Version 5.33– Feb 01, 2017
- Cranenbroek added
- Unitec 48110 EIM 826 added
- SilverCrest 60494 added
- WSD10 added

Version 5.34– March 08, 2017
- Housegard Origo smoke detector added
- Pearl NC-7159 added
- Ambient Weather & Froggit F007TH added
- TFA 30.3208.02 sensor added

Version 5.35– March 20, 2017
- Silverline Premium motor added
- Dooya DT82 instructions added

Version 5.36– April 25, 2017
- Quigg added
- OTIO EHS5050 added
- Blyss temperature/humidity sensor 630467 added
- Outlook Motion Blinds added

Version 5.37– May 5, 2017
- Cartelectronic TIC in Type2 and Ext2

Version 5.38– May 22, 2017
- BBSB not in Ext2
- Profile Qnect added

Version 5.39– July 28, 2017
- Banggood DANIU sensor added
- Somfy usage remarks added
- Brennenstuhl RC2044 added

Version 5.40– Sept 18, 2017
- Blyss temp/hum added in Ext
- Cartelectronic Linky added

Version 5.41– Sept 24, 2017
- Sonoff RF added
- Rollertrol G series added

Version 5.42– Oct 26, 2017
- Dooya DC2770, DT52E added

Version 5.43– Nov 1, 2017
- A-OK AC127, AC129 added

Version 5.44– Nov 11, 2017
- Digoo DG-R8H added

Version 5.45– Nov 23, 2017
- SilverCrest 284705 added

Version 5.46– March 2, 2018
- Nexa NBA-001 added
- Kimex projection screen added

Version 5.47– March 13, 2018
- Lighting4 PT2262 EV1527 info added
- Telldus Thermo/Hygro sensors 313159 and 313160

Version 5.48– July 28, 2018
- Supported Protocols list updated
- FunkBus (Gira, Jung, Berker, Insta) added
- Nobily rolladenmotor added
- LucciAir DC added

Version 5.49– Aug 18, 2018
- Supported Protocols list updated

Version 5.50– Sep 26, 2018
- Cotech Ekstra temperaturgiver/hygrometer added
- Supported Protocols list updated for RFXtrx433XL

Version 5.51– Sep 28, 2018
- RFXtrx433XL Dutch P1 smart meter connection added

Version 5.52– Oct 3, 2018
- RFXtrx433XL serial connection added

Version 5.53– Oct 12, 2018
- P1 smart meter connection updated
- RFXtrx433XL French Teleinfo connection added
- Mertik G6R-H3T1 added

Version 5.54– Oct 16, 2018
- Teleinfo interface circuit added

Version 5.55– Oct 17, 2018
- Firmware recovery procedure added

Version 5.56– Nov 3, 2018
- P1 and Teleinfo resistor R15 change added

Version 5.57– Nov 30, 2018
- P1 and Teleinfo updated

Version 5.58– Dec 2, 2018
- How to move RFY devices to another RFXtrx433E or RFXtrx433XL

Version 5.59– Jan 5, 2019
- Funkbus transmit only
- Motiva blinds added
- Envivo chime added in XL
- Byron BY chime added

Version 5.60– April 03, 2019
- P1 DIY cable connection added
- P1 option boards added
- RFXtrx868 supported protocols updated
- Alfawise and dBell added
- inblindz added
- Homeconfort, Siemens SF01 receive added
- Bresser Temeo Hygro added
- Digoo door/window sensor added
- Monaco wireless doorbell added
- CasaFan Eco Aviatos RH787T added
- Motostar blinds added

Version 5.61– April 25, 2019
- Procedure how to move RFY devices updated.
- Teleinfo option PCB added.

Version 5.62– May 04, 2019
- RM174RF, RM175RF added in Pro firmware

Version 5.63– May 07, 2019
- Omnia Go blinds added
- Teleinfo setting – Inverted polarity

Version 5.64– July 23, 2019
- Faher blinds motor added
- Profitec KD310T added
- Kerui siren added
- RM174RF, RM175RF transmit added

Version 5.65– Aug 12, 2019
- Recover RFXtrx868 added
- Hunter fan added
- Novy extractor hood added

Version 5.65a– Aug 12, 2019
- MCZ receive updated in 2.2.2.

Version 5.66– Sept 30, 2019
- Smartwares RM174RF/RM175RF receive only
- Teleinfo interface updated

Version 5.67– Jan 11, 2020
- Simu Hz indicated (BHz is not supported)
- Dooya Bi-Directional is not supported!
- SAS SA-200 added
- RAIN9 - TFA 30.3233.01 rain sensor added
- Gaposa QCTR5

Version 5.67a– Feb 5, 2020
- The new TFA rain sensor 30.3233 only supported in Pro2, ProXL1 and ProXL2

Version 5.68– Feb 26, 2020
- Cherubini added

Version 5.69– June 2, 2020
- Cherubini ID 10 xx xx added

Version 5.70– Dec 15, 2020
Louvolite one touch Vogue vertical blinds added
Version 5.71– April 7, 2021
ProXL2 firmware added
Ozroll E-Trans added
Bresser 7009981, 7009994, 7009997 added
1byOne QH A19 rev10 added
Version 5.72– March 22, 2022
Ikea Koppla added in Pro2
Byron DBY-23711B added
Gazco heater added
Version 5.73– July 12, 2022
TFA Pro 35.1161, 30.3249.02, 30.3233.01, 30.3251.10
LaCrosse TX141TH, TX141W, WS1652, TX145R
Version 5.73a– Aug 8, 2022
Not in ProXL2:
- TFA Pro 35.1161, 30.3249.02, 30.3233.01, 30.3251.10
- LaCrosse TX141TH, TX141W, WS1652, TX145R
Version 5.74– Nov 3, 2022
- TFA 30.3247.02 added
- Itho CVE ECO RFT (RFXtrx868) added
- Orcon (RFXtrx868) added