

RFXtrx USB RF transceiver User guide



www.rfxcom.com

1. Table of Contents

1.			Contents	
2.			eneral information	
	2.1.		trx315 supported protocols	
	2.	.1.1.	RFXtrx315 configured for 310MHz	4
	2.		RFXtrx315 configured for 315MHz	
	2.		RFXtrx868X	
	2.2.	RFX	rec433, RFXtrx433, RFXtrx433E supported protocols	5
	2.		By function	
	2.		Alphabetic list	
	2.3.	unde	ec on	16
	2.4.		sitivity influenced by enabled protocols	
	2.5.		ange reduction	
	2.6.		ne Automation software	
	2.7.		ensions	
	2.8.		trical	
	2.9.		ronmental conditions	
3.	_		e USB driver	
4.			(flash on Linux under Mono	
т. 5.			r test program	
J.	5.1.		eiver	
	5.1.		ismitter	
c	-			
6.			date of the RFXtrx	
	6.1.		ate firmware in the RFXtrx	
_	6.2.		ate firmware in the RFXtrx step by step	
7.			33 special device codes	
	7.1.		note commands	
			X10 RF Remote	
			ATI Remote Wonder	
			ATI Remote Wonder Plus	
	7.	.1.4.	Medion Remote	29
	7. 7.2.	.1.4. Harr	Medion Remoteison address conversion to switch settings	29 30
	7. 7.2. 7.3.	.1.4. Harr Flam	Medion Remoteison address conversion to switch settingsningo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbro	29 30 ek
	7. 7.2. 7.3.	.1.4. Harr Flam ch setti	Medion Remoteison address conversion to switch settingsningo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbrongs	29 30 ek 31
	7. 7.2. 7.3.	.1.4. Harr Flam ch setti	Medion Remoteison address conversion to switch settingsningo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbro	29 30 ek 31
	7. 7.2. 7.3. swite	.1.4. Harr Flam ch setti Enei	Medion Remoteison address conversion to switch settingsningo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbrongs	29 30 ek 31 32
	7. 7.2. 7.3. swite 7.4.	.1.4. Harr Flam ch setti Enei Phei	Medion Remoteison address conversion to switch settingsningo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbrongsrgenie 5-gang 429.950	29 30 ek 31 32
	7. 7.2. 7.3. swite 7.4. 7.5.	.1.4. Harr Flan ch setti Enei Phei HE1	Medion Remoteison address conversion to switch settings	29 30 ek 31 32 34
	7. 7.2. 7.3. swite 7.4. 7.5. 7.6.	.1.4. Harr Flam ch setti Enei Phei HE1 HQ (Medion Remote	29 30 ek 31 33 34
	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7.	.1.4. Harr Flam ch setti Ener Pher HE1 HQ (MDF	Medion Remote	29 30 ek 32 33 35
	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7.	.1.4. Harr Flam ch setti Ener Pher HE1 HQ (MDF MDF	Medion Remote	29 30 ek 31 32 34 35 36
	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.9.	.1.4. Harr Flam ch setti Enei Phei HE1 HQ (MDF MDF	Medion Remote	29 30 ek 31 32 34 35 36 36
	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.9. 7.10 7.11	.1.4. Harr Flam ch setti Enei Phei HE1 HQ (MDF MDF). Ac	Medion Remote	29 30 ek 31 34 35 36 36 36
	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.9. 7.11 7.12	.1.4. Harr Flam ch setti Enei Phei HE1 HQ (MDF MDF). Ac I. SE	Medion Remote	29 30 ek 31 32 35 36 36 36
	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.9. 7.11 7.12 7.13	.1.4. Harr Flam ch setti Ener Pher HE1 HQ (MDF MDF MDF 1. SE	Medion Remote	29 30 ek 31 32 35 36 36 37 37
	7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.9. 7.11 7.12 7.13 7.14	.1.4. Harr Flam ch setti Ener Pher HE1 HQ (MDF MDF MDF J. Ac J. SE J. Ho J. Ho	Medion Remote	29 30 ek 31 32 34 35 36 37 37
	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.9. 7.10 7.11 7.12 7.13 7.14 7.15	.1.4. Harr Flam ch setti Ener Pher HE1 HQ 0 MDF MDF SE 2 Ho 3 Ho 5 Harr	Medion Remote	29 30 ek 31 34 35 36 36 37 37
Ω	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.10 7.11 7.12 7.13 7.14 7.15 7.16	.1.4. Harr Flam ch setti Ener Pher HE1 HQ 0 MDF MDF SE 2 Ho 3 Ho 6 Ho	Medion Remote	29 30 ek 31 32 35 36 36 37 37 37
8. a	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.11 7.12 7.13 7.14 7.15 BI	.1.4. Harr Flam ch setti Enei Phei HQ (MDF MDF MDF SE 2. Ho 3. Ho 5. Ho 6. Ho klyss cor	Medion Remote	29 30 ek 31 32 35 36 37 37 37 38 38
9.	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.11 7.12 7.13 7.14 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	.1.4. Harr Flam ch setti Enei Phei HQ (MDF MDF). Ac 1. SE 2. Hc 3. Hc 5. Hc 6. Hc comfy R	Medion Remote ison address conversion to switch settings ningo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbro ngs	29 30 ek 31 32 35 36 37 37 37 37 38 38 38
	7. 7.2. 7.3. switc 7.4. 7.5. 7.6. 7.7. 7.8. 7.10 7.11 7.12 7.13 7.16 Bl Sc.	.1.4. Harr Flam ch setti Enei Phei HQ (MDF MDF). Ac 1. SE 2. Hc 3. Hc 5. Hc 6. Hc comfy R Blinds	Medion Remote	29 30 ek 31 32 35 36 37 37 37 37 38 38 38
9. 10	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.10 7.11 7.12 7.13 7.14 7.15 7.16 BI Sc 3. 10.1	.1.4. Harr Flam ch setti Ener Pher HE1 HQ (MDF MDF). Ac S. Hc S.	Medion Remote rison address conversion to switch settings ningo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbro ngs rgenie 5-gang 429.950 nix, IDK YC-4000S switch settings 05 switch settings COCO-20 REMOTE V106, V107 REMOTE V108, EKAB-10KRF boke relay EAV TXS4 bow to find the dx.com RGB LED strip driver ID bow to find the Eurodomest ID bow to find the Screenline ID bow to find the Avantek remote ID mmands TS T6 boya DT52E, DT82TV, DT82TN	29 ek 31 32 35 36 37 37 37 37 38 38 38
9. 10	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.10 7.11 7.12 7.13 7.14 7.15 7.16 BI Sc 10.1	1.4. Harr Flam ch setti Ener Pher HE1 HQ 0 MDF MDF 3. Ho 5. Ho 6. Ho comfy R Blinds Lucci A	Medion Remote ison address conversion to switch settings ningo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbro ngs	29 30 ek 31 32 34 36 36 37 37 37 37 38 38 39 41 41 41
9. 10 11 12	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.10 7.11 7.12 7.13 7.14 7.15 7.16 BI So 10.1	.1.4. Harr Flam ch setti Ener Pher HE1 HQ (MDF MDF MDF 3. Ho 3. Ho 5. Ho 6. H	Medion Remote	29 30 ek 31 32 35 36 36 37 .
9. 10 11 12 13	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.10 7.11 7.12 7.13 7.16 BI Sc 0). 10.1	Harr Flam ch setti Enei Phei HQ (MDF MDF MDF). Ac I. SE 2. Ho 3. Ho 5. Ho byss cor omfy R Blinds I. Do Lucci A Transn MCZ p	Medion Remote ison address conversion to switch settings ningo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbro ngs rgenie 5-gang 429.950 nix, IDK YC-4000S switch settings 05 switch settings COCO-20 REMOTE V106, V107 REMOTE V108, EKAB-10KRF oke relay EAV TXS4 ow to find the dx.com RGB LED strip driver ID. ow to find the Eurodomest ID. ow to find the Eurodomest ID. ow to find the Screenline ID. ow to find the Avantek remote ID. mmands TS T6 Doya DT52E, DT82TV, DT82TN Air fan mit undecoded ARC commands nellet stove	29 30 ek 31 32 35 36 36 37
9. 10 11 12 13	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.10 7.11 7.12 7.13 7.16 BI So). 10.1	Harr Flam Ch setti Ch setti Ener HE1 HQ (MDF MDF MDF MDF MDF MDF MDF MDF MDF MDF	Medion Remote	29 30 ek 31 32 35 36 37 3
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9. 10 11 12 13	7. 7.2. 7.3. swite 7.4. 7.5. 7.6. 7.7. 7.8. 7.10 7.11 7.12 7.13 7.16 BI So). 10.1	.1.4. Harr Flam ch setti Enei Phei HQ (MDF MDF). Ac 1. SE 2. Hc 5. Hc 6. Hc 6. Hc Iyss cor omfy R Transn MCZ p Lightin I. Pr 2. Ki	Medion Remote	29 30 ek 31 32 36 36 37 3

14.4	4. Conrad 034911 sockets	44
14.5	5. Sonoff	45
14.6	6. PT2262 and EV1527 oscillator resistors accepted	45
15.	FAQ	
15.1	1. Receive has stopped suddenly but transmit works	46
15.2		
15.3		
15.4	4. I have a 433.92MHz sensor/remote but this device is not received	46
15.5	5. The wall plug is switched by the remote. The remote is received but the RF	Xtrx does
not	switch the module.	46
16.	EC Declaration of Conformity	47
17.	Warning:	
18.	License	
19.	Copyright notice	48
20.	Revision history	

2. RFXtrx general information

The RFXtrx transceivers and RFXrec receivers are communicating over an USB port with the Home Automation application. The RFXtrx/rec is powered by the USB port.

At startup the RFXtrx enters for 2 seconds the boot loader (red LED is on) and after this it starts the receive/transmit firmware. If valid (decode-able) packets are received the yellow LED will blink

The RFXtrx315 and the RFXrec433 are mainly for use in the US. The RFXtrx315 can receive US X10 lighting and security sensors **or** US Visonic PowerCode sensors at 315MHz.

The RFXrec433 can receive weather sensors of different brands at 433.92MHz.

The RFXtrx433 is a transceiver (transmitter+receiver) and can receive and control a large number of sensors and other devices.

The RFXtrx433E is an extended RFXtrx433 transceiver.

Note: the listed protocols and brands are supported!

2.1. RFXtrx315 supported protocols

2.1.1. RFXtrx315 configured for 310MHz

Protocol	Protocol	receive	transmit
US X10 lighting	X10	Υ	Υ
US X10 security	X10	Υ	Υ

2.1.2. RFXtrx315 configured for 315MHz

Protocol	Protocol	receive	transmit
Aoke relay	Lighting5	-	Υ
PT2262, EV1527 and compatibles	Lighting4	Υ	Υ
Keeloq (unencrypted part only)	Keeloq	Υ	-
Visonic CodeSecure (unencrypted part only)	Visonic	Υ	-
Visonic PowerCode	Visonic	Υ	Υ

2.1.3. RFXtrx868X

Protocol	Protocol	receive	transmit
Alecto ACH2010	Alecto	Υ	-
FS20	FS20	Υ	Υ
Itho CVE RFT	Itho	-	Υ
Keeloq (unencrypted part only)	Keeloq	Υ	Υ
Visonic CodeSecure (unencrypted part only)	Visonic	Υ	-
Visonic PowerCode	Visonic	Υ	-

2.2. RFXrec433, RFXtrx433, RFXtrx433E supported protocols

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/

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 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/

Chamberlain CS4330CN

http://www.chamberlain24.de/epages/es122868.sf/en GB/?ObjectPath=/Shops/es122868/Products/RA4336

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

Ematronic - http://www.ematronic.com/moteurs-volet-roulant/

ESMO blind motors

Forest blind/curtain motors - http://www.forestgroup.nl/index_nl.html

Harrison curtain – http://www.harrison.nl/home2.htm

Hasta blind motors - http://www.hasta.se/

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 only) - http://www.luxaflex.se/produkter/luxaflex/rullgardiner/

Media Mount Projector screen

Motolux - http://www.motolux.com.au/

Nobily rolladenmotor http://www.nobily.de/rolladenmotor/funk-elektronisch/40mm-achtkantwelle/170/nobily-rolladenmotor-pre4?c=5

 $\label{linds-b$

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 (RFXtrx433E only) – http://www.simu.com/

Somfy (RFXtrx433E 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-trach-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 Cresta Digimax Digoo DG-R8H 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 Marguant 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 - 1008T 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 smoke detector

AliExpress sensors with EV1572 or PT2262 (PT2262 is preferred)

Atlantic security

Chacon KD101 smoke detector

Chuango security

Eminent security

Flamingo KD101 smoke detector FA20RF, FA21RF

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

Smartwares RM174RF 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/

 $Kambrook\ RF3672-\underline{\text{http://www.bunnings.com.au/kambrook-4-piece-indoor-powerpoint-kit-with-remote-control}\ \ \underline{\text{p7030054}}$

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/

 $Mercury\ appliance\ modules\ -\ \underline{\text{http://mercury.avsl.com/product?range=ME5124}}$

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

Byron SX chime - http://www.chbyron.eu/Byron/ByronSXRange/68/89/

Byron MP001

Chacon

Envivo – ENV1348

HomeEasy

KlikAanKlikUit

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 DEA receivers http://www.deasystem.com/en/accessory/7/receivers (unencrypted only) Lucci Air Fan - http://www.lucciair.com/ MCZ pellet stove Mertik Maxitrol - Fire Place controllers 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 and Ext2 firmware will not operate in the RFXtrx433.
- RFXrec firmware is equal to RFXtrx433 Type1 firmware without the transmit functions.
- Protocol enabling is only necessary for receive. Transmit protocols are always enabled.

Device	Type 1	Type 2	Ext	Ext2	Protocol	rec	xmit
1byone Driveway Alarm		Υ	Υ	Υ	DiwanCV	Υ	Υ
- http://www.1byone.co.uk/Home-Security/Alarms/O00QH-0511	-	Y	Y	Y	ByronSX	Y	Y
1byone Easy Chime	-	Υ	Υ	Υ	ByronSX	Υ	Υ
A-OK blind motors RF01	Υ	Υ	_	Υ	BlindsT2	Υ	Υ
- http://www.motorisationplus.com/		•		•	Dillids12	'	•
A-OK blind motors AC114,AC123,AC127,AC129,	Υ	Υ	_	Υ	BlindsT3	Υ	Υ
- http://www.motorisationplus.com/							
Aidebao security	Υ	Υ	Υ	Υ	Meiantech	Υ	Υ
Alecto – SA30, SA33 smoke detector	Υ	-	Υ	-	Oregon	Υ	Υ
Alecto – ws1200	Υ	Υ	Υ	Y	LaCrosse	Υ	-
Alecto — WS1700 and compatibles, WS3500, WS4500	-	-	Υ	Y	Rubicson	Y	-
Alecto – wsp10	-	-	-	Υ	Rubicson	Υ	-
Ambient Weather - F007TH	-	-	-	Y	Oregon	Υ	-
ANSLUT (learning mode)	Υ	Υ	Υ	Υ	AC	Υ	Υ
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	Υ	Y	Y	Y	Lighting5 Aoke or Lighting1 ARC	N	Y
ASA ETR blind motors - http://www.asa-mingardi.org/en/home.php	-	-	Υ	Υ	RFY	N	Υ
ASP blind motors - http://www.asp-distribution.com/site%20volet/voletrenovation.aspx	Υ	Y	-	Y	BlindsT11	Υ	Υ
ATI Remote Wonder	Υ	-	-	-	ATI	Υ	Υ
ATI Remote Wonder Plus	Υ	-	-	-	ATI	Υ	Υ
ATI Remote Wonder II (only available in hardware version 1.0)	Υ	-	-	-	ATI	Υ	-
Atlantic security	Υ	Υ	Υ	Υ	Meiantech	Υ	Υ
Auriol H13726	-	-	Υ	Υ	Rubicson	Υ	-
Auriol Z31055B-TX	-	-	-	Υ	Rubicson	Υ	-
Avantek	-	-	Υ	Υ	Lighting5 *Lighting4	Y*	Υ
Banggood - SKU174397	-	-	Υ	Υ	Rubicson	Υ	-
Banggood DANIU	•	-	Υ	-	Rubicson	Υ	-
ByeByeStandBy	Υ	Υ	Υ	-	ARC	Υ	Υ
Byron SX chime - http://www.chbyron.eu/Byron/ByronSXRange/68/89/	Υ	Υ	Υ	Υ	ByronSX	Υ	Υ
Byron MP001 chime	-	-	Υ	Υ	Chime Byron MP001	N	Υ
Blyss lighting - http://www.castorama.fr/store/Prise-telecommandee-et-telecommande-BLYSSInterieur-prod4470026.html	Υ	Υ	Υ	-	AE	Υ	Υ
Blyss temperature/humidity 630467	Υ	Υ	Υ	-	AE	Υ	-
BOFU EY1612 blind motors - http://www.bofumotor.com/ * = receive only in Type2 used to get the remote ID.	Υ	Υ	Υ	Υ	BlindsT0	Y*	Υ
Brennenstuhl RCS2044N	Υ	Υ	Υ	Υ	Lighting4	Υ	Υ
Brennenstuhl RC2044	-	-	-	Y	Lighting4 + AC	Υ	Υ
Brel blind motors – http://www.brel-motors.nl/webshop/motoren/	Υ	Υ	Υ	Υ	BlindsT6	N	Υ
BTX blind motors, remote, part# 490.2076	-	Υ	-	-	BlindsT9	N	Υ
Cartelectronic TIC, Encoder, Linky	-	Υ	-	Υ	ATI/cartelectronic	Υ	N

https://www.cartelectronic.fr/index.php?id_product=124&co ntroller=product							<u> </u>
cent-a-meter	Υ	Υ	Υ	-	Oregon	Υ	-
Chacon (learning mode)	Υ	Υ	Υ	Υ	AC	Υ	Υ
- http://www.chacon.be/	-	-		-		-	-
Chacon (with address code wheels)	Υ	Υ	Υ	Υ	ARC Lighting1	Υ	Υ
Chacon EMW200	Υ	Υ	Υ	ı	EMW200	N	Υ
Chacon 54660 (equal COCO GDR2)	Υ	Υ	Υ	Υ	Lighting1 COCO GDR2	Ν	Υ
Chacon KD101 smoke detector	Υ	Υ	Υ	Υ	always on	Υ	Υ
Chamberlain CS4330CN http://www.chamberlain24.de/epages/es122868.sf/en GB/ ?ObjectPath=/Shops/es122868/Products/RA4336	-	-	Y	-	BlindsT8	N	Υ
Chuango * decoded as X10 in Ext2 firmware	Υ	Υ	Υ	Υ*	Lighting4	Υ	Υ
CoCo (learning mode) - http://www.coco-technology.com/en/home/	Υ	Υ	Υ	Υ	AC	Υ	Υ
CoCo (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
CoCo GDR2 (equal Chacon 54660)	Y	Y	Y	Y	Lighting1	N	Y
Confexx CNF24-2435	'	•	-	Y	COCO GDR2 BlindsT12	N	Y
Conrad RSL2	-	-	-	T	DIIIUSTIZ	IN	T
- http://www.conrad.com/ce/en/product/640466/FUNK- STECKDOSENSCHALTER-RSLR2	Υ	Υ	-	Υ	RSL	Υ	Υ
Conrad RSL sensors	-	Y	-	-	RSL	Y	Y
Contact RSL2 motion/door-window sensors	-	Υ	-	- Y	RSL Lighting 4 - AC	Y	Y
Cotech Smarthome Cranenbroek	-	-	-	-	Lighting4 + AC Lighting1	· ·	-
	Υ	Υ	Υ	Υ	Impuls	N	Υ
Cresta - TX-320, TS34C, anemometer, UV sensor, rain sensor	Υ	Υ	Υ	Υ	Hideki	Υ	-
DEA receivers (unencrypted) http://www.deasystem.com/en/accessory/7/receivers	-	-	Υ	-	KeeLoq	Υ	Υ
Digimax	Υ	Υ	Υ	-	X10	Υ	-
Digoo DG-R8H https://www.banggood.com/Digoo-DG-R8H-433MHz-Wireless-Digital-Hygrometer-Thermometer-Weather-Station-Sensor-for-TH11300-8380-p-1178108.html	-	-	-	Υ	Rubicson	Υ	-
DI.O (learning mode)	Υ	Υ	Υ	Υ	AC	Υ	Υ
- http://www.di-o.be/ DI.O (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
Dolat DLM-1 controlled motors		Y				N	Y
- http://www.dolat.com.cn/product1.asp?id=538	-		-	-	BlindsT10		
DomiaLite (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
Dooya blind motors, emulate remotes: DC305,DC306,DC307,DC313,DC1602,DC1650,DC1651, DC2700	Υ	Υ	Υ	Υ	BlindsT6	N	Υ
Ebode	Υ	Υ	Υ	Υ	X10	Υ	Υ
Electrisave	Υ	Υ	Υ	-	Oregon	Υ	-
ELRO AB400 - http://www.elro.eu/en/products/cat/home-automation/home-control1	Υ	Υ	Υ	-	Lighting4	Υ	Υ
ELRO AB600	Υ	Υ	Υ	Υ	ARC	Υ	Υ
Ematronic RF01 - http://www.ematronic.com/moteurs-volet-roulant/	Υ	Υ	-	Υ	BlindsT2	Υ	Υ
Ematronic AC114, AC123 - http://www.ematronic.com/moteurs-volet-roulant/	Υ	Υ	-	Υ	BlindsT3	Υ	Υ
Eminent * decoded as X10 in ext firmware	Υ	Υ	Υ	Y*	Lighting4	Υ	Υ
Energenie - https://energenie4u.co.uk/ - ENER010 – 429.935, 5-gang 429.950	Υ	Υ	Υ	-	Lighting1 Energenie Energenie5	N	Υ
Envivo – Chime ENV1348	-	-	Υ	-	Chime Envivo	N	Υ
ESMO blind motors	Υ	Υ	Υ	Υ	BlindsT6	N	Υ
LOW DING MOLOID	'	ı	<u>'</u>	'	Dilliasio	1 4	

Etekcity - http://etekcity.com/p-300-5-pack-wireless-					Lighting1		
remote-control-outlet-switch-set-with-2-remote-controls- zap-5lx.aspx	Υ	Υ	Υ	-	Energenie5	N	Υ
Eurodomest (NL – Action)					Lighting1 ARC		
* ARC only	Y*	Υ	Y*	Y*	Or	N	Υ
E (I : ENN/400			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Lighting5 Eurodomest	N.I.	
Everflourish EMW100	Y	Y	Y	-	Lighting5 EMW100	N	Y
Flamingo	-		Υ	Y	Lighting4	Y N	Y
Flamingo FA500D FA500DSS Flamingo KD101 smoke detector FA20RF,	-	-	-		IT		
FA21RF	Υ	Υ	Υ	Υ	always on	Υ	Υ
Flamingo Smartwares SF501	Υ	Υ	Υ	Υ	Lighting2 - AC	Υ	Υ
Focus	Υ	Υ	Υ	Υ	Meiantech	Υ	Υ
Forest blind/curtain motors	Υ	Υ	Υ	Y	BlindsT7	N	Υ
- http://www.forestgroup.nl/index_nl.html				· Y		Y	•
Froggit - F007TH	-	-	-	Y	Oregon	Y	- Y
FunkBus (Gira, Jung, Insta, Berker) HAMA EWS1500			Υ	Υ	Special firmware Rubicson	Y	Y
Harrison curtain	-	_				-	-
- http://www.harrison.nl/home2.htm	Υ	Υ	Υ	Υ	Curtain Harrison	N	Υ
Hasta new blind motors							
- http://www.hasta.se/	Υ	Υ	Υ	Υ	BlindsT0	Y*	Υ
* = receive only in Type2 used to get the remote ID. Hasta old blind motors	Υ	Υ	_	_	BlindsT1	Υ	Υ
Hideki weather sensors	Y	Y	Υ	Υ	Hideki	Y	-
Home Confort lighting						-	
- http://www.home-confort.net/en	-	-	Υ	-	HomeConfort	Υ	Υ
HomeEasy EU (learning mode) - http://www.elro.eu/en/products/cat/home-automation/	Υ	Υ	Υ	Υ	HE EU	Υ	Υ
HomeEasy UK – HE105	Υ	Υ	Υ	Υ	Thermostat2 HE105	N	Υ
- http://www.homeeasy.eu/							
HomeEasy UK (learning mode)	Y	Y	Y	Y	AC ARC	Y	Y
HomeEasy UK (with address code wheels)						-	Y
Honeywell - TF-ATS34C	Υ	Υ	Υ	Υ	Hideki	Υ	-
Housegard Origo smoke detector	-	-	-	Υ	ARC	Υ	Υ
HQ COCO-20	_	_	Υ	Υ	Lighting1	N	Υ
Ikea Koppla	Υ	_	-	_	HQ COCO20 Lighting3	N	Y
Impuls (NL – Action)	Y	Υ	Υ	V	Lighting1		Y
	Y	Y	Y	Υ	Impuls	N	Y
Inovalley SM80 with plant probes - http://www.inovalley.com/detail.php?item_id=289	-	-	Υ	Υ	Rubicson	Υ	-
Intertechno (learning mode) - http://www.intertechno.at/	Υ	Υ	Υ	Υ	AC	Υ	Υ
Intertechno (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
JVS screens - http://www.screen-discount.nl/	Y	Ý	Y	Y	BlindsT6	N	Y
Kambrook RF3672 –	-	-		-	Lighting2		
http://www.bunnings.com.au/kambrook-4-piece-indoor-	-	Υ	Υ	-	Kambrook	N	Υ
powerpoint-kit-with-remote-control_p7030054 Kerui security * decoded as X10 in Ext2 firmware							
https://www.aliexpress.com/item/433-MHz-Wireless-Door-	Υ	Υ	Υ	Y*	Lighting4	Υ	Υ
Windows-Sensors-for-KERUI-Alarm-System-Magnetic-	ı	1	ı	ı	+ X10*	I	ı
Door-Sensor-Door-Open-reminder/32590916896.html Kimex projection screen							
- https://www.kimexinternational.com/A-9162-ecran-de-	Υ	Υ	_	Υ	BlindsT3	Υ	Υ
projection-electrique-encastrable-3-00-x-1-69m-format-16-		'		ı	Dillius 13		'
9.aspx Kingpin KP100 projection screen	Υ	Υ	Υ	Υ	Lighting4	N	Υ
KlikAanKlikUit (learning mode)							
- http://www.klikaanklikuit.nl/home/	Υ	Υ	Υ	Υ	AC	Υ	Υ
KlikAanKlikUit (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
La Crosse - TX2, TX3, TX3P, TX4, TX7, TX17, WS2300	Υ	Υ	Υ	Υ	LaCrosse	Υ	-
Legrand CAD radio	-	-	Υ	-	Lighting5	-	Υ
Lexibook	Υ	Υ	Y	Υ	LeGrand CAD Hideki	Υ	-
revinook	T	T	T	Ţ	HIUEKI	ſ	-

- SM883							
LightwaveRF - http://www.lightwaverf.co.uk/	Υ	Υ	Υ	Υ	AD	Υ	Υ
Livolo - http://www.livolonederland.nl/ - http://www.livolo-France.com/fr/ - http://nl.aliexpress.com/w/wholesale-livolo-touch-switch.html	Υ	Υ	Υ	Υ	Lighting5 Livolo	N	Υ
Louvolite one touch motorised blinds * = receive only in Type2 used to get the remote ID.	Υ	Υ	Υ	Υ	BlindsT0	Y*	Υ
Lucci Air fan - http://www.lucciair.com/	-	-	Υ	-	Fan LucciAir	N	Υ
Luxaflex – http://www.luxaflex.se/produkter/luxaflex/rullgardiner/	-	-	Υ	Υ	RFY	N	Υ
Maplin http://www.maplin.co.uk/p/remote-controlled-mains-socket-set-single-n78ka	Υ	Υ	Υ	Υ	Lighting1 COCO GDR2	N	Υ
Marquant 943134	-	Υ	-	-	X10	Υ	-
Maverick ET-732/733 BBQ/Smoke temperature	Υ	Υ	Υ	Υ	Hideki	Υ	-
MCZ pellet stove	-	Υ	Υ	-	Thermostat4	-	Υ
MDremote LED dimmer v106 - www.ultraleds.co.uk	Υ	Υ	Υ	Υ	Lighting5 MDRemote V106	N	Υ
MDremote LED dimmer v107 - www.ultraleds.co.uk	Υ	Υ	Υ	Υ	Lighting5 MDRemote V107	N	Υ
MDremote LED dimmer v108, EKAB-10KRF - http://www.ledstripkoning.nl/accessoires/dimmers- wit/draadloze-dimmer-10-knops-rf/	Υ	Υ	Υ	Y	Lighting5 MDRemote V108	N	Υ
Meade – TS33F-M, TS34C-M http://www.meade.com/products/weatherstations/sensors.h tml	Υ	Υ	Υ	Υ	Hideki	Υ	-
Media Mount Projector screen	-	Υ	-	-	Lighting4	N	Υ
Meiantech security	Υ	Υ	Υ	Υ	Meiantech	Υ	Υ
Mercury appliance modules - http://mercury.avsl.com/product?range=ME5124	Υ	Υ	Υ	Υ	Lighting1 Energenie5	N	Υ
Mertik Maxitrol Fire Place controllers - G6R-H4T1, G6R-H4T5, G6R-H4TD, G6R-H4T16, G6R-H4TB, G6R-H4T21-Z22	Υ	Υ	Υ	Υ	Mertik	Υ	Υ
Mertik Maxitrol Fire Place controller - G6R-H4S	Υ	Υ	Υ	Υ	Mertik	N	Υ
Meteoscan W155,W160	-	-	Υ	Υ	Rubicson	Υ	-
Motorlux blinds motor	Υ	Υ	-	Υ	BlindsT3	-	Υ
mi.sol WH2 http://www.ebay.com/itm/Transmitter-for- Wireless-Weather-Station-wireless-temperature-sensor- /121664060899	Υ	Υ	Υ	Υ	FineOffset	Υ	-
NEXA (learning mode) - http://www.nexa.se/	Υ	Υ	Υ	Υ	AC	Υ	Υ
NEXA (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
NEXA KD101/LM101LC smoke detector	Υ	Υ	Υ	Υ	always on	Υ	Υ
Nexa NBA-001 temperature sensor	Υ	Υ	Υ	Υ	Hideki	Υ	-
NEXUS - 1008T	Υ	Υ	Υ	Υ	Hideki	Υ	-
Nobily rolladenmotor http://www.nobily.de/rolladenmotor/funk-elektronisch/40mm-achtkantwelle/170/nobily-rolladenmotor-pre4?c=5	Y	Υ	Υ	Y	BlindsT6	N	Υ
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	Υ	Y	Υ	Υ	XT300	Υ	-
ORNO	Υ	Υ	Υ	Υ	AC	Υ	Υ
Oregon Scientific / Huger BBQ and weather sensors - AW129, AW131, BTHGN129, BTHR918, BTHR918N, BTHR968, EW109, PCR800, RGR126, RGR682, RGR918, RGR928, RTGN318, RTGR328N, RTGR368N, RTGR3838, RTHN318, STR918, STR928, THGN800, THGN801, THC138, THC238, THC268, THGN122NX, THGN123N, THGN132ES, THGN132N,	Υ	Υ	Υ	Y	Oregon	Υ	
					-		

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							
Oregon Scientific weighting scales							
- BWR101, BWR102, GR101	Υ	-	Υ	Υ	Oregon	Υ	-
US_BWR101, BWR102 in RFXrec					3		
Oregon MSR939							
https://www.redealer.de/multimedia/home-	-	-	Υ	-	Oregon	Υ	-
living/wetterstationen/bewegungssensor-msr939/a-200667/					D 01		
OTIO EHS5050	-	Υ	-	-	RSL	Υ	-
OTIO Lighting	Υ	Υ	-	Υ	RSL	Υ	Υ
Outlook Motion Blinds -							
https://www.spotlightstores.com/curtains-blinds/indoor-	-	Υ	_	-	BlindsT4	Υ	Υ
blinds/roller-blinds/project-outlook-motion-motorised-roller-blind/p/BP80360543							
OWL - CM113	Υ	Υ	Υ		Oregon	Υ	_
OWL		ı	ı		Oregon	ı	_
- http://www.theowl.com/	Υ	Υ	Υ	Υ	Oregon	Υ	_
- MID://www.theowi.com/ - CM119, CM160, CM180, CM180i	•			•	Orogon	•	
Pearl NC-7159			V	V	Dubiasas	V	
http://www.pearl.de/a-NC7159-3041.shtml	-	-	Υ	Υ	Rubicson	Υ	-
Phenix	Υ	Υ	Υ	Υ	Lighting4	Υ	Υ
Philips SBC SP370 series	-	Υ	_	-	Lighting1 Philips SBC	N	Υ
Prego P-8426		-	``		0 0 1		
http://www.sunmarket.fi/tuote.asp?TID=11990	Υ	Υ	Υ	-	X10	Υ	-
Profile Qnect 423000040,423000042	-	-	_	Υ	Lighting4 + AC	Υ	Υ
Profiles PAC-326R Belcanto	Υ	Υ	Υ	Ý	ByronSX	Y	Y
Proluxx projection screen	Y	Y	Y	Ÿ	Lighting4	N	Y
PROmax		ı	-	Y	IT	N	Y
	-	-	-	Ť	• •	IN	Ť
Proove —TSS320 & TSS330 fridge/freezer thermometer	Υ	Υ	Υ	Υ	FineOffset or	Υ	-
& outdoor sensors 311346,311501	-	-	-		Rubicson	-	
Quigg RC DS5 4001-A DE 3726	-	-	-	Υ	Lighting4 + AC	Υ	Υ
Quotidom – http://www.quotidom.com/moteur-tubulaire-					DI L TO		
radio-quotidom-10-ou-20-nm-volet-roulant-ou-store-	Υ	Υ	Υ	Υ	BlindsT6	N	Υ
banne.html (not the Solutio version)		Υ			BlindsT4	Υ	Υ
RAEX blind motor (YR1326 or YRL2016 controlled)	Y	Y	Y	-		Y	Y
Renkforce RF101 smoke detector	Y	Y	Y	Υ	always on	Y	Y
Revolt NC5461	-	Υ	-	-	RSL	Υ	-
- http://www.pearl.de/a-NC5462-5452.shtml	V	\ <u>/</u>	V	\ <u>\</u>	V40	V	
RFXSensor	Y	Y	Y	Y	X10	Y	-
RFXMeter	Υ	Υ	Υ	Υ	X10	Υ	-
RGB LED strip driver dx.com							
- http://www.dx.com/ order nbr: 130913, (new TRC02 NOT supported)	Y*	Υ	Y*	_	AD	Y*	Υ
- http://www.dx.com/ order nbr: 67412	'		'		AD.	'	'
* = receive only in Type2 used to get the RGB remote ID.							
RGB432W LED controller	Υ	Υ	Υ	-	Lighting5 RGB432W	Ν	Υ
RisingSun	Υ	Υ	Υ	Υ	Lighting4	Υ	Υ
RUBICSON							-
- stektermometer 48659, 48695 -pool sensor p48019	Υ	-	Υ	Υ	Rubicson	Υ	-
RohrMotor24 RMF blind motors	Υ	V	V	V	BlindsT6	N I	V
- http://www.rohrmotor24.eu/rohrmotor24	Υ	Υ	Υ	Υ	DIIIIUS I O	N	Υ
RollerTrol R-series blind motors							
- http://rollertrol.com/	Υ	Υ	Υ	Υ	BlindsT0	Y*	Υ
* = receive only in Type2 used to get the remote ID.	1/	\/	W	.,	DE- 4-TO	N I	\/
Rollertrol G-series blind motors	Y	Υ	Y	Y	BlindsT6	N	Υ
Sartano	Υ	Υ	Υ	Υ	Lighting4	Υ	Υ
Screenline motors - http://www.screenline.cz/en/	-	-	-	Υ	BlindsT13	N	Υ
SEAV TXS4	-	-		Υ	FAN SEAV TXS4	Ν	Υ
SelectPlus200689101 &							
SelectPlus200689103	-	Υ	Υ	Υ	ByronSX	Υ	Υ
(Action NL)							
Siemens SF01 LF959RA50/LF259RB50/LF959RB50		Υ	_		Fan	N	Υ
extractor hood	-	I	_	-	SF01	IN	ı
		-					

SilverCrest 91089	Siemens (UK)	Υ	Υ	Υ	Υ	AD	Υ	Υ
SilverCrest 60494, 284705		-	_					
Silverline Premium - http://www.aluparis.nl		-	T	T		ŭ ŭ		-
Simu / RTS (RFXtrx439E only) - Y Y RFY N Y RIB/Www.simu.com Y Radiator N Y Radiator Smartwares radiator valve - Y Y Radiator Smartwares radiator valve - N Y Radiator Smartwares radiator valve - Y Y Radiator Smartwares RM Y Y Y RAC Y Y Somf Y RTS - Into://www.somf.vco.uk/ To control Somf Centralis use RFY2 commands. Y Y RFY N Y Y Y Lighting4 Y Y Y Y Y Y Lighting4 Y Y Y Y Y Y Y Y Lighting4 Y Y Y Y Y Y Y Y Y			- V	- V				
Smartwares radiator valve		Y	Y	Y	Y	Billius i o	IN	Y
Smartwares radiator valve		-	-	Υ	Υ	RFY	Ν	Υ
Smartwares RM174RF	Smartwares radiator valve - http://www.homewizard.nl/smartwares-draadloze-	-	-	Υ	Y		N	Υ
Somfy / RTS - http://www.somfy.co.uk/ To control Somfy Centralis use RFY2 commands.					V	A D.C	V	V
To control Somfy Centralis use RFY2 commands.		-	-	-		ARC	Y	
Sonoff RF	SOMITY / KTS - http://www.somty.co.uk/	-	-	Υ	Υ	RFY	N	Υ
Sunpery blind motors		Y	Υ	Υ	Υ	Lighting4	Υ	Υ
Sunvic TLX1206		_		<u> </u>	_			
Sunvic TLX7506		V		V	_			
TechnoLine/Profice			_		_		-	'
Intro/Nowwell		I	ı	1	-	Λ10	ı	-
Telldus 313159 and 313160 https://www.lohelectronics.se/hemautomation/433mhz/sens prer-11105mart-inne-och-utetermometer-med-hydrometer-10396 TFA TS15C, TS34C, external temperature sensor 30.3133, anemometer 30.3149, UV sensor, rain sensor 30.3148, pool sensor 30.3169, UV sensor, rain sensor 30.3148, pool sensor 30.3160, 30.3216.20 Y Oregon Y Y Hideki Y	http://www.elv.de/output/controller.aspx?cid=74&detail=10 &detail2=27621	Y	-	Υ	Y	Rubicson	Υ	-
TFA	Telldus 313159 and 313160 https://www.lohelectronics.se/hemautomation/433mhz/sens orer-1110/smart-inne-och-utetermometer-med-hygrometer-	Υ	Υ	Υ	Υ	FineOffset	Υ	-
-pool sensor 30.3056.10, 30.3216.20 TFA external temperature sensor 30.3208.02 Y Hideki Y - UPM/Esic (very short receiving range) -WT260,WT260H,WT440H,WT450,WT450H,WDS500, RG700 Unitec 48110 EIM 826 Y Lighting4 + AC Y Y Ventus WS155 Y Y Rubicson Y - Viking -02035, 02038, 02811 V Y Y Y Y V Visonic Y - Visonic CodeSecure Y Y Y Y Visonic Y - Visonic PowerCode Y Y Y Y Visonic Y - Wave Design extractor hood Y Y Y Y Lighting1 Waveman N Y Waveman Y Y Y Y Lighting1 Waveman N Y Westinghouse fan 7226640 Y Fan N Y WT0122 pool sensor - Y Y FineOffset Y - YOODA blind motors - http://www.sukcesgroup.pl X10 Ninja/Robocam - Y Y Y Y X X10 Y Y X10 RTS10 / RFS10 Y Y X10 security Y Y Y X10 Y Y X10 security Y Y Y X10 Y Y X10 security Y Y Y X10 Y Y X10 security Y Y Y Y X10 Y Y X10 Security Y Y Y X10 Y Y X10 Security Y Y Y Y X10 Y Y X10 Security Y Y Y Y X10 Y Y X10 Security Y Y Y Y X10 Y Y	TFA - TS15C, TS34C,external temperature sensor 30.3133, anemometer 30.3149, UV sensor, rain sensor 30.3148, pool sensor 30.3160	Υ	Υ	Υ	Υ	Hideki	Y	-
TFA external temperature sensor 30.3208.02 - - - Y Hideki Y - UPM/Esic (very short receiving range) - - - - - - Hideki Y - -W7260,WT260H,WT440H,WT450,WT450H,WD8500, RG700 Y -		-	-	-	Υ	Oregon	Υ	-
UPM/Esic (very short receiving range) Y - - Hideki Y - RG700 Y - - - Hideki Y - - RG700 Y	•	-	-	-	Υ	Hideki	Υ	-
Ventus WS155 - - Y Y Rubicson Y - Viking -02035, 02038, 02811 Y Y Y Y Y Y FineOffset Y Y Visonic CodeSecure Y Y Y Y Y Visonic Y Y Y Visonic Y Y Y Y Visonic Y <	UPM/Esic (very short receiving range) - wtz60,wtz60H,wt440H,wt450H,wt450H,wds500,	Υ	-	-	-		Υ	-
Viking	Unitec 48110 EIM 826	-	-	-	Υ	Lighting4 + AC	Υ	Υ
-02035, 02038, 02811 1	Ventus WS155	-	-	Υ	Υ	Rubicson	Υ	-
-02035, 02038, 02811 1	Viking	V	V	V	V	FinoOffoot	V	
Visonic PowerCode Y	- 02035, 02038, 02811	-	_	-	-			-
Wave Design extractor hood Y Y Y Y Y Waveman Y Y Y Y Lighting1 Waveman N Y Westinghouse fan 7226640 - - - Y Y Fan N Y WT0122 pool sensor - - Y - FineOffset Y - YOODA blind motors Y Y Y Y BlindsT6 N Y X10 Ninja/Robocam - Y - - X10 Y Y X10 PC Remote Y - - X10 Y Y X10 RTS10 / RFS10 Y Y Y Y Y Y X10 lighting Y Y Y Y Y Y Y X10 security Y Y Y Y Y Y Y Y	Visonic CodeSecure					Visonic		-
Wave besign extractor flood Y<	Visonic PowerCode	Υ	Υ	Υ	Υ		Υ	-
Waveman Y Y Y Y Lighting1 Waveman N Y Westinghouse fan 7226640 - - - Y Fan N Y WT0122 pool sensor - - Y - FineOffset Y - YOODA blind motors - http://www.sukcesgroup.pl Y Y Y BlindsT6 N Y X10 Ninja/Robocam - Y - - X10 Y Y X10 PC Remote Y - - X10 Y Y X10 RTS10 / RFS10 Y Y Y Y Y X10 Y Y X10 lighting Y Y Y Y Y X10 Y Y X10 security Y Y Y Y Y Y Y Y	Wave Design extractor hood	Υ	Υ	Υ	Υ		Ν	Υ
Westinghouse fan 7226640 - - - Y Fan N Y WT0122 pool sensor - - Y - FineOffset Y - YOODA blind motors - http://www.sukcesgroup.pl Y Y Y BlindsT6 N Y X10 Ninja/Robocam - Y - - X10 Y Y X10 PC Remote Y - - X10 Y Y X10 RTS10 / RFS10 Y Y Y Y Y X10 Y Y X10 lighting Y Y Y Y Y Y Y Y X10 Y Y Y X10 Y Y X10 Y Y X10 Y Y Y X10 Y Y Y X10 Y Y X10 Y Y Y X10 Y Y Y X10 Y Y Y Y Y <t< td=""><td>Waveman</td><td>Y</td><td>Υ</td><td>Υ</td><td>Υ</td><td></td><td>N</td><td>Υ</td></t<>	Waveman	Y	Υ	Υ	Υ		N	Υ
WT0122 pool sensor - - Y - FineOffset Y - YOODA blind motors - http://www.sukcesgroup.pl Y Y Y Y BlindsT6 N Y X10 Ninja/Robocam - Y - - X10 Y Y X10 PC Remote Y - - X10 Y Y X10 RTS10 / RFS10 Y Y Y Y Y Y X10 lighting Y Y Y Y Y Y X10 security Y Y Y Y Y Y Xdom Y Y Y Y Y Y Y		-	-	-				
YOODA blind motors Y Y Y BlindsT6 N Y - http://www.sukcesgroup.pl - Y - - X10 Y Y X10 Ninja/Robocam - Y - - X10 Y Y X10 PC Remote Y - - X10 Y Y X10 RTS10 / RFS10 Y Y Y Y X10 Y Y X10 lighting Y Y Y Y Y Y Y X10 security Y Y Y Y Y Y Y Xdom Y Y Y Y Y Y Y Y Y		_	_	٧	_	7.7		
- http://www.sukcesgroup.pl T T T T T T T T T T T T T T T T T Dillids10 N T X10 Ninja/Robocam - Y - - X10 Y								
X10 Ninja/Robocam - Y - - X10 Y Y X10 PC Remote Y - - - - X10 Y Y X10 RTS10 / RFS10 Y Y Y Y Y X10 Y Y X10 lighting Y Y Y Y Y Y Y X10 security Y Y Y Y Y Y Y Xdom Y Y Y Y Y Y Y		Y	Y	Υ	Y	BlindsT6	N	Υ
X10 PC Remote Y - - X10 Y Y X10 RTS10 / RFS10 Y Y Y Y X10 Y Y X10 lighting Y Y Y Y X10 Y Y X10 security Y Y Y Y Y Y Y Xdom Y Y Y Y Y Y Y		-	Υ	-	-	X10	Υ	Υ
X10 RTS10 / RFS10 Y		Υ	-	-	-			
X10 lighting Y Y Y Y Y Y X10 security Y Y Y Y Y Y Y Xdom Y Y Y Y Y Y Y			Υ	Υ	Υ			
X10 security Y Y Y Y Y Y Xdom Y Y Y Y Y Y								
Xdom Y Y Y X10 Y Y								
	Xiron – EN6	Y		Y	Y	Rubicson	Y	-

2.3. undec on

This parameter is for internal use by RFXCOM only!!!

If new sensor types are released they will most probably not be decoded by the RFXtrx firmware. For this reason we have added the option to enable receive of undecoded messages. This function is only to enable RFXCOM to add this new sensor type in the firmware if possible. If "undec on" is enabled in normal use the application will receive a lot of undecoded messages mostly as a result of RF noise or disturbed RF packets.

Important: For normal use "undec on" should be disabled

2.4. Sensitivity influenced by enabled protocols

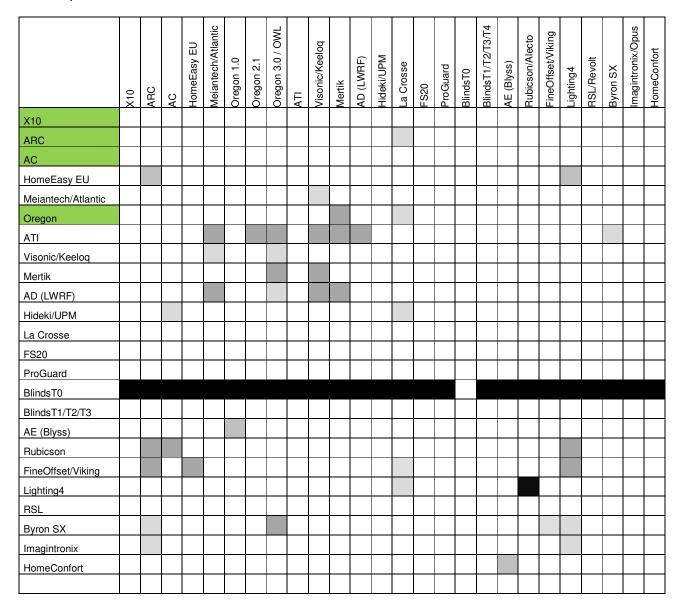
The sensitivity of the receiver part is highly influenced by the number of protocols enabled. Lesser protocols enabled will make the receiver more sensitive for the enabled protocols.

There are a few protocols that will reduce or even eliminate receiving of other protocols if enabled.

For example:

If the AD (LightwaveRF, Siemens) protocol is enabled it can stop receiving of Meiantech / Atlantic, Oregon 3.0, Visonic and Mertik.

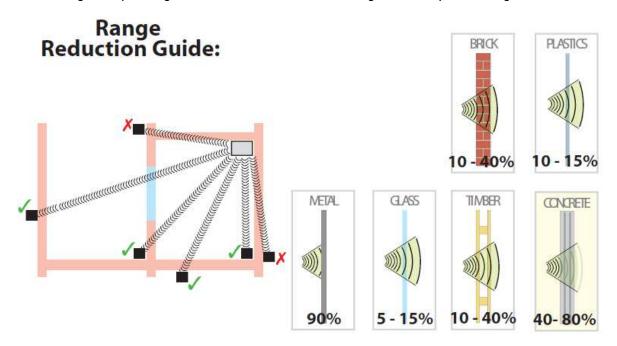
All other protocols are disabled if BlindsT0 is enabled.



Green = 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. Home Automation software

For the list of Home Automation software that supports the RFXtrx see the web site www.rfxcom.com

2.7. Dimensions

The dimensions of the RFXtrx/RFXrec are: 83.5 x 42 x 15 mm Total height from bottom to antenna top is 122mm

The dimensions of the RFXtrx433E are: 83 x 59 x 22 mm Total height from bottom to antenna top is 130mm

2.8. Electrical

The RFXtrx is powered by the 5 Volt of the USB interface.

Operating current;

Receive mode: 28 mA (0.14Watt)

Transmit mode: 45 mA

The RFXtrx Radiated RF power is 10dBm max.

2.9. Environmental conditions

Normal operating: 15°C to 35°C Absolute min-max temperature: -10°C to 55°C

3. Install the USB driver

The RFXtrx has the FTDI FT232R USB interface chip installed.

The USB drivers are available at http://www.ftdichip.com/Drivers/VCP.htm

4. Run RFXflash on Linux under Mono

Open a Terminal screen in Linux (Ctrl-Alt-T)

Execute once:

Install Mono:

[sudo] apt-get install mono-runtime

Install VisualBasic support under Mono:

[sudo] apt-get install libmono-microsoft-visualbasic8.0-cil

If the USB device is created as ttyACMx you will need to create a link between /dev/ttyACMx and a serial port /dev/ttySx.

This is not necessary if the device is created as /dev/ttyUSBx!!

[sudo] In -sf /dev/ttyACM1 /dev/ttyS3

Note: sudo must be entered without brackets []. sudo is required if not running as super user.

Launch the RFXflash.exe program. [sudo] mono RFXflash.exe

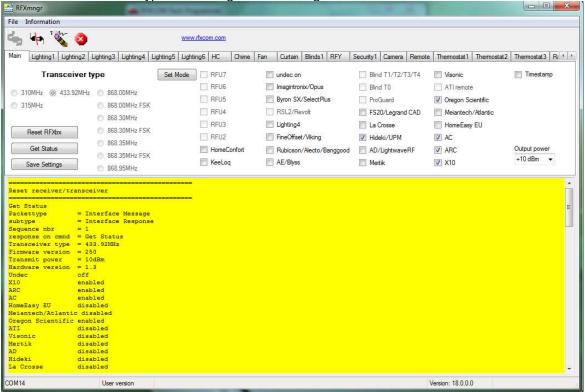
Note: RFXmngr does not operate under mono!

5. RFXmngr test program

The RFXmngr program supports decoding of received data and allows you to transmit commands.

After the connection the RFXmngr program transmits a Reset and Get Status command so that

it will know the RFXtrx type and configuration settings:



Transmitter protocols are always enabled but receiver protocols can be disabled. This is very useful because the receiver will become more sensitive when protocols not used are disabled. So select only the protocols to be used, click **Set mode** and click **Save Settings**.

Note that these settings are lost in Type1 and Type2 firmware after an update and need to be set again.

5.1. Receiver

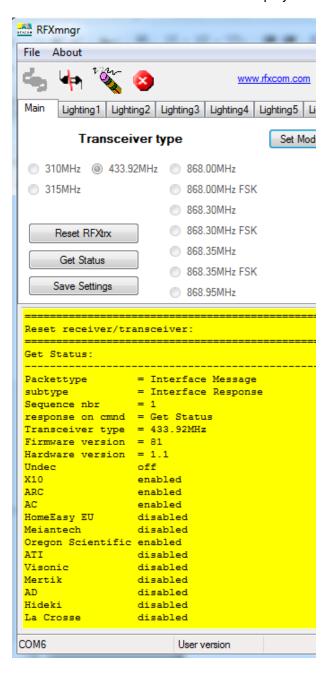
The RF protocols to be received can be configured on the Main tab at **Set Mode**.

Click **Save Settings** to save the selected protocols in non-volatile memory of the RFXtrx. This configuration is now restored every time after a power up.

Note that these settings are lost after a firmware update and need to be set again.

Note: Protocol enabling is only necessary for receive. Transmit protocols are always enabled.

The received RF data is decoded and displayed in the yellow window.



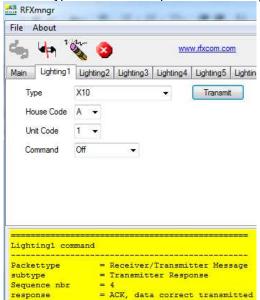
5.2. Transmitter

The tabs after the Main tab are used to send commands to the transmitter.

For example Lighting1 is used to send X10, ARC and some more.

Note: Protocol enabling is only necessary for receive. Transmit protocols are always enabled.

Select Type to see which protocols are supported on the different tabs.



The transmitted commands are displayed in the yellow window including the acknowledge send by the RFXtrx, in the example above "ACK, data correct transmitted".

6. Flash update of the RFXtrx

6.1. Update firmware in the RFXtrx

Firmware is flashed in the RFXtrx using this procedure:

- 1. Depending on the RFXtrx type download the latest RFXtrx315_yy.hex, RFXrec433_yy.hex or RFXtrx433_yy.hex firmware file.
- 2. Connect the RFXtrx to a Windows system or Linux under MONO
- 3. Stop any program that is connected to the RFXtrx.
- 4. Start the RFXflash program (version 4.0.0.0 or higher)
- 5. Select the USB RFXtrx COM port or TCP/IP port and click the CONNECT button, (the red LED on the RFXtrx should switch on now)
- 6. Load the correct.hex firmware file for your RFXtrx,
- 7. Click the WRITE button,
- 8. Click the Normal Execution mode button.

IMPORTANT:

- 1. Do not interrupt the flash procedure when started.
- 2. It can happen that the flash procedure ends with a pop-up screen indicating errors. Just disconnect the RFXtrx and start again at step 5 until the flash procedure if finished without errors.

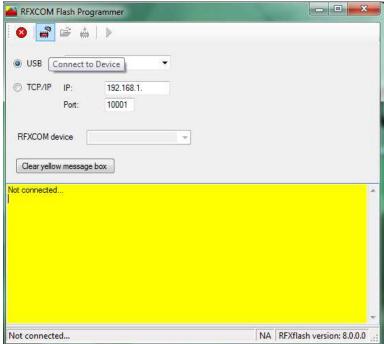
If the red LED does not switch on if you click the CONNECT button:

- 1. Check if you have selected the correct USB COM port.
- 2. If you have flashed the RFXtrx before and interrupted the flash procedure it is possible that the RFXtrx does not enter the flash state. Contact support@rfxcom.com for help.

Note: Receiver Settings are lost in Type1 and Type2 firmware after an update and have to be set again.

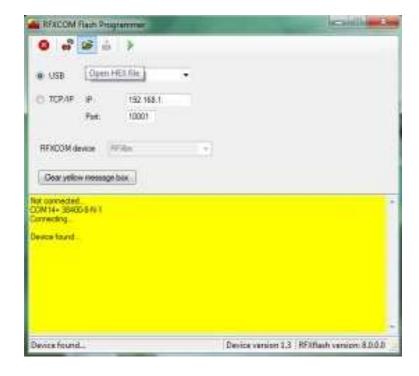
6.2. Update firmware in the RFXtrx step by step

Click the Connect to Device button.

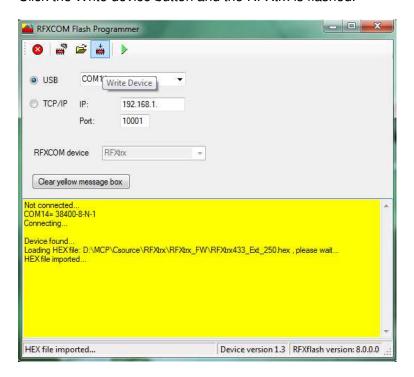


The RFXtrx will automatically switch from normal mode to the bootloader now.

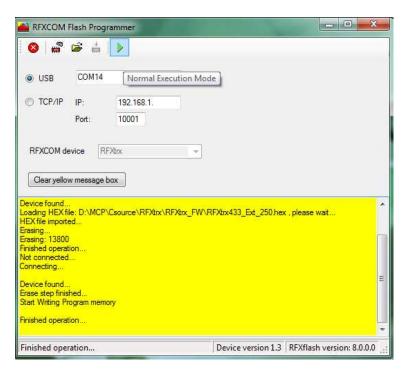
Click the Open HEX file button and load the RFXtrxyyy_xx.hex file Be sure to load the latest firmware file for the RFXtrx. yyy indicates the RFXtrx frequency, so load the RFXtrx433 for an RFXtrx433! xx indicates the firmware version.



Click the Write device button and the RFXtrx is flashed.



Click on the Normal Execution Mode button to set the RFXtrx to running mode.



Note: Receiver Settings are lost in Type1 and Type2 firmware after an update and have to be set again.

7. RFXtrx433 special device codes

7.1. Remote commands

7.1.1. X10 RF Remote

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

7.1.2. ATI Remote Wonder

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

7.1.3. ATI Remote Wonder Plus

7.1.4. Medion Remote

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

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
      H
      H
      X
      X
      X
      X
      X
      X
      X
      X
      X
      X
      X
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      X
      X
      X
      X
      X
      X
      X
      X
      X
      X
      X
      X
      X
      X<
```

```
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

Use type ELRO AB400D

Note that the HC (House Code A-P) is the house code used in programs and has no direct relation with the A,B,C,D,E buttons on the remotes!

	1	2	3	4		<==	switch	es							
HC≕ A B C D E F G H I J K L M N O P	0 0 0 0 0 0 0 0 0 1 1 1 1 1 1	0 0 0 0 1 1 1 0 0 0 1 1 1 1	0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1	0 1 0 1 0 1 0 1 0 1 0 1 0 1											
DC-	5 5	A 6	B 7	C 8	D 9	E 10	DC	5 5	A 6	B 7	C 8	D 9	E 10	switches OR switches	5
DC=== 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32		0 0 0 0 0 1 1 1 0 0 0 0 0 1 1 1 1 0 0 0 0 1 1 1 1 0 0 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1	0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 34 35 36 37 38 39 40 41 42 43 44 45 51 52 53 54 55 56 57 58 59 60 61 62 63 64	0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0		0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 0 1 0 1 0 1 1 0 1 0 1 1 0 1 1 1 0 1 1 1 1 1 0 1	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1			

Examples:

A1 0000000000 A15 0000111000 N2 1101000100 N11 1101101000

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)

```
jumper setting in the remote
   1 2 3 4
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
0 1 1 1 0
P 1 1 1 1
```

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

Examples:

Jumper	Butt	Button Code					
12345							
10000	1	l1					
10001	1	16					

7.5. Phenix, IDK YC-4000S switch settings

Use type ELRO AB400D

Note that the HC (House Code A-P) is the house code used in programs and has no direct relation with the A,B,C,D,È buttons on the remotes!

HC	1	vit 2	3	4	
ABCDEFGHIJKLMNOP	0 0 0 0 0 0 0 0 0 1 1 1 1 1	0 0 0 0 1 1 1 0 0 0 0 1 1 1 1	0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	
DC	5	Α	ch B	С	D
1 2 3 3 4 4 5 5 6 6 7 8 8 9 10 111 12 13 114 115 116 117 118 119 119 119 119 119 119 119 119 119	00000001111111000000001111111		 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1		0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1

7.6. HE105 switch settings

Unitnr	Н	Ξ1()5	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	

page 34 / 54

7.7. HQ COCO-20

HC======

6 7 8 9 <== switches in module

Note that the HC (House Code A-P) is the house code used in programs and has no direct relation with the A,B,C,D,E buttons on the remotes!

```
0 0 0 0
Α
В
    0 0 0 1
C
    0 0 1 0
D
    0 0 1 1
    0 1 0 0
    0 1 0 1
   0 1 1 0
G
Η
   0 1 1 1
Ι
    1 0 0 0
   1 0 0 1
    1 0 1 0
K
    1 0 1 1
L
М
   1 1 0 0
N
    1 1 0 1
   1 1 1 0
0
    1 1 1 1
   10 1 2 3 4 5
                     10 1 2 3 4 5 <== switches in module
DC=====DC======
   0 0 0 0 0 0 33 1 0 0 0 0 0
   0 0 0 0 0 1 34 1 0 0 0 0 1
0 0 0 0 1 0 35 1 0 0 0 1 0
0 0 0 0 1 1 36 1 0 0 0 1 1
0 0 0 1 0 0 37 1 0 0 1 0 0
0 0 0 1 0 1 38 1 0 0 1 0 1
3
6
    0 0 0 1 1 0 39 1 0 0 1 1 0
0 0 0 1 1 1 40 1 0 0 1 1 1
7
8
    10
   0 0 1 0 0 1
   0 0 1 0 1 0
11
47 1 0 1 1 1 0
48 1 0 1 1 1 1
15
    0 0 1 1 1 0
16
   0 0 1 1 1 1
    0 1 0 0 0 0 0 49 1 1 0 0 0 0
0 1 0 0 0 1 50 1 1 0 0 0 1
0 1 0 0 1 0 51 1 1 0 0 1 0
17
18
   0 1 0 0 1 0
19
55 1 1 0 1 1 0
56 1 1 0 1 1 1
23
    0 1 0 1 1 0
24
   0 1 0 1 1 1
30 0 1 1 1 0 1 62 1 1 1 1 0 1
                63 1 1 1 1 1 0
64 1 1 1 1 1 1
31
   0 1 1 1 1 0
                       1 1 1 1 1 0
32 0 1 1 1 1 1
Examples:
Switch 6789012345
```

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:20AF6801D1

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-----|
123 4567 8910
0 x x x | x x x x | x x x 0 | 0101
```

For example SW1 = 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 0 0 0 1 0 1 this is hex: 5 5 4 5
```

7.12. How to find the dx.com RGB LED strip driver ID

Valid for the TRC02 remote with 2 batteries.

Flash the RFXtrx433 with Type2 firmware to be able to receive the remote ID in RFXmngr. In RFXmngr enable only the LightwaveRF (AD) protocol.

```
Packettype = Lighting5
subtype = RGB TRC02
Sequence nbr = 5
ID = FCC48B
Command = On
Signal level = 8
The ID is: FC C48B
```

If necessary flash the RFXtrx433 back to Type1 or ext if Type2 does not support devices you need. (See chapter 2.2)

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

Valid for the 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 7^{th} 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 = 3Code = 122336 decimal: 1188662 S1- S24 = 0001 0010 0010 0011 0011 0110Pulse = 280 usecSignal level = 7 - 64dBm

The ID to be used is 1 22 33

8. Blyss commands

Some Blyss devices, like the Blyss motors, require a special command sequence number. To simplify it; 0,1,2,3,4,0,1,...

This sequence number is normally created by the Blyss remote but now also by the RFXtrx433.

If you use a Blyss remote and the application (Domoticz, DomotiGa, Homeseer...) does not sync with the received Blyss command you will see that you need to send multiple commands with the RFXtrx433 before the Blyss device will respond.

For example,

The Blyss remote transmits with the sequence numbers 0,1,2

If the RFXtrx433 transmits now with sequence number 0 it will not be seen by the Blyss device as a valid command and at the time the RFXtrx433 transmits the commands 1,2,3 the command will be detected as valid when it receives the command with sequence number 3.

The same is true for the remote. If you transmit commands with the RFXtrx433 and after that with a Blyss remote you need to transmit several commands with the remote before the Blyss device responds.

I guess the same behaviour will show if you use multiple Blyss remotes.

9. Somfy RTS

Somfy RTS* devices can only be controlled by the RFXtrx433E. (not with the RFXtrx433) The RFXtrx433E version is an RFXtrx433 with additional hardware to enable the RFY protocol used to control Somfy RTS.

The 433.42MHz transmitter in the RFXtrx433E is used for a reliable control of the Somfy RTS devices over a large distance and through walls.

The RFXtrx433E 433.92MHz transmitter is used to control all other devices.

To pair the Somfy RTS device:

- Select a unique ID and unitcode for the RFXCOM RFY device.
- Disconnect power from all Somfy RTS devices except the device to pair.
- Press the Program button > 2 seconds on the original Somfy remote until the Somfy device responds.
- Transmit a Program command with the RFXtrx433E. The Somfy RTS device should respond indicating the pair command was successful.

The RFXCOM RFY remote is registered in the RFXtrx433E by sending a Program command. Up to 40 RFXCOM RFY remotes can be registered in the RFXtrx433E. Remotes can be erased from the RFXtrx433E using the RFXmngr program.

The Somfy RTS device can be controlled by any application as long as the same ID and Unit Code are used.

For example if the RTS device is paired using RFXmngr with ID=1 02 03 and Unit Code 1, the RTS device can be controlled with Homeseer using the same ID and unit code.

Usage:

To control Somfy Centralis modules use the RFY2 = > 2 seconds commands.

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 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 are registered trademarks of Somfy System, Inc.

10. BlindsT6

To add a RFXtrx433(E) BlindsT6 device to the blinds motor:

- 1. press the "program" button twice on the original remote ==> 2 beeps
- 2. transmit the "confirm" command with the RFXtrx433(E) ==> 5 beeps

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)

11. Lucci Air fan

Select the ID for switch settings:

```
Remote switches
     1 2 3 4
0
     0 0 0 0
     0 0 0 1
     0 0 1 0
3
     0 0 1 1
    0 1 0 0
4
5
    0 1 0 1
6
     0 1 1 0
    0 1 1 1
    1 0 0 0
8
9
     1 0 0 1
Α
    1 0 1 0
В
     1 0 1 1
С
     1 1 0 0
    1 1 0 1
Ε
     1 1 1 0
```

0 = ON

12. 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 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



13. MCZ pellet stove.

In the Type2 firmware zip file which is available on the downloads page you will find a special firmware RFXtrxMCZ.hex that enables you to know the ID of the your MCZ remote.

Flash the RFXtrxMCZ.hex firmware in your RFXtrx433(E) and start RFXmngr. Transmit a command with the MCZ remote and you will receive the information.

The ID in this example is 81 3F 22

```
        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
```

Flash now Type2 or Ext firmware in your RFXtrx433(E) and you can control your MCZ stove using the received ID.

Important: remove the batteries from the original remote before you start using the RFXtrx433 to control the MCZ stove!

14. Lighting4 devices

14.1. 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
```

14.2. Kingpin (KP100) projection screen

Use Lighting4 with a pulse timing of 1040

UP	1110 000	01 0100 0	0010 0010	0010	E1	42	22
STOP	1110 000	01 0100 0	0010 0010	0100	E1	42	24
DOWN	1110 000	01 0100 0	0010 0010	1000	E1	42	28
PROGRAM	1110 000	01 0100 0	0010 0010	0001	E1	42	21

14.3. Mercury remote control mains sockets

http://mercury.avsl.com/product?range=ME5124

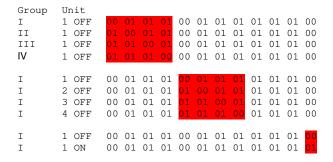
Use Lighting4 with a pulse timing of 188

```
1 OFF 0100010001010101011 1100
2 OFF 01000100010101011100 1100
2 ON 01000100010101011100 1100
3 OFF 01000100010101110000 1100
4 OFF 01000100010111010000 1100
4 ON 01000100010111010000 0011
5 OFF 01000100011101010000 1100
5 ON 01000100011101010000 0011
```

14.4. 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



14.5. Sonoff

All Sonoff 433MHz RF receiver devices can be controlled by the RFXtrx433 and RFXtrx433E 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

14.6. 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.

15.1. Receive has stopped suddenly but transmit works.

Most probably a sensor is transmitting constantly. This could be for example an X10 MS13 motion sensor or weather sensor with almost empty battery. Or an outside weather sensor filled with water. Or a remote with a button pressed.

Test the RFXtrx with a remote or sensor on another location (> 1km away) using RFXmngr on a Windows system or laptop.

15.2. Can I increase the receive/transmit range of the RFXtrx?

First check chapter 2.5 for the best place for the RFXtrx antenna.

The switch board is not the best place for the RFXtrx because of all metal objects that will absorb or reflect the RF signals.

It is also advised to place the RFXtrx far away from PC's, routers, Raspberry PI ... because of the RF noise those products produce and this will reduce the receive range very much.

You can connect another 50ohm 70cm/433MHz antenna with more gain.

For example http://www.ebay.com/itm/290979680030

Install this antenna on a metal plate of at least 30 cm for optimum result.

15.3. The RFXtrx USB connection disconnects sometimes.

This happens mostly on Raspberry PI with a low quality power supply. Solution is to use a powered USB hub with a good quality power supply.

It can also happen if the USB cable is running along a power cable or a power device is switched on that produces a high power spike like a fluorescent tube. Solution is to separate the USB cable from all other cables and/or use a powered USB hub with a good quality power supply.

15.4. I have a 433.92MHz sensor/remote but this device is not received.

Besides the frequency the used protocol and modulation type is also important. See chapter 2 for the list of supported devices.

15.5. The wall plug is switched by the remote. The remote is received but the RFXtrx does not switch the module.

The remote transmits several protocols. The protocol used by the wall plug is not received by the RFXtrx but some other protocols are received. Solution:

For the HomeEasy EU- HE8xx series: reset the module to remove all paired remotes and pair the module with the RFXtrx433E and one of remote codes that is received.

For IT modules FA500/PROmax: Pair the RFXtrx433E with the module using an IT device and select a random ID. The received remote code can be used to know if the module is switched by the remote.

16. EC Declaration of Conformity

EC Declaration of Conformity CE

RFXCOM declares that the product:

RFXtrx

Brand: RFXCOM Type: RFXtrx433E

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)

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20. Revision history

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/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

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 – dx.com RGB LED controller added

Version 4.06 – December 27, 2013

Chapter 2.2 updated

Version 4.07 – February 10, 2014

Chapter 7.8 added: how to find the dx.com RGB LED strip driver ID

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

Copyright message updated

License chapter added

RFXmngr information updated

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

United 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- March 28, 2018

FunkBus (Gira, Jung, Berker, Insta) added

Nobily rolladenmotor added