

Quick Start Guide

use RFXCOM with

Indigo

www.rfxcom.com

Table of Contents

1	Introduction.....	3
2	Receiver with USB interface.....	4
2.1	Install USB driver.....	4
2.2	Use the USB receiver as a W800RF32 receiver.....	4
2.3	Use the USB receiver in Indigo.....	4
3	Receiver with Ethernet interface.....	5
3.1	Install the Ethernet receiver.....	5
3.2	Configure the Ethernet controller.....	5
3.3	Test the Ethernet interface connection.....	5
3.4	Use the Ethernet receiver in Indigo.....	5
4	Transmitter with USB interface.....	6
4.1	Install USB transmitter and driver.....	6
4.2	Use the USB transmitter in Indigo.....	6
5	Transmitter with Ethernet interface.....	6
5.1	Install the Ethernet transmitter.....	6
5.2	Configure the Ethernet controller.....	6
5.3	Use the Ethernet transmitter in Indigo.....	6
6	RFXMeter.....	7
6.1	Install the RFXPwr hardware.....	7
6.2	RFXPwr in Indigo.....	7
6.3	Install the RFXPulse hardware.....	7
6.4	RFXPulse in Indigo.....	7
7	RFXSensor.....	8
7.1	Install the RFXSensor.....	8
7.2	Install additional sensors.....	8
7.3	RFXSensor in Indigo.....	8
8	Warning:.....	9
9	Copyright notice.....	9
10	Revision history.....	9

1 Introduction.

The purpose of this document is to let you have the RFXCOM devices fast up and running. If a question arises, first check if the detailed documentation for the device will give the answer. If you can't find the answer in the detailed documentation you can send your question to support@rfxcom.com or if the problem is more related to the application software please post your question at the forum of that software.

At this time the only known working solution in Indigo is the RFXCOM USB receiver. The RFXCOM USB transmitter will also operate using scripting but we don't have examples.

It is very well appreciated if you send any comments or additions on this document to support@rfxcom.com

We hope you enjoy the RFXCOM products.

2 Receiver with USB interface.

2.1 Install USB driver.

1. Do NOT connect the USB plug before installing the USB drivers!
2. Install the latest USB drivers from the FTDI site.
<http://www.ftdichip.com/Drivers/VCP.htm>
3. Connect the RFXCOM USB receiver and install the drivers just downloaded.

2.2 Use the USB receiver as a W800RF32 receiver.

Indigo doesn't support the native RFXCOM Variable length mode. The RFXCOM receiver must therefore be set into the 32 bit mode. In this mode the RFXCOM receiver acts exactly as a W800RF32 receiver. In 32 bit mode the receiver doesn't have all the capabilities it has in Variable Length mode.

The limitations are:

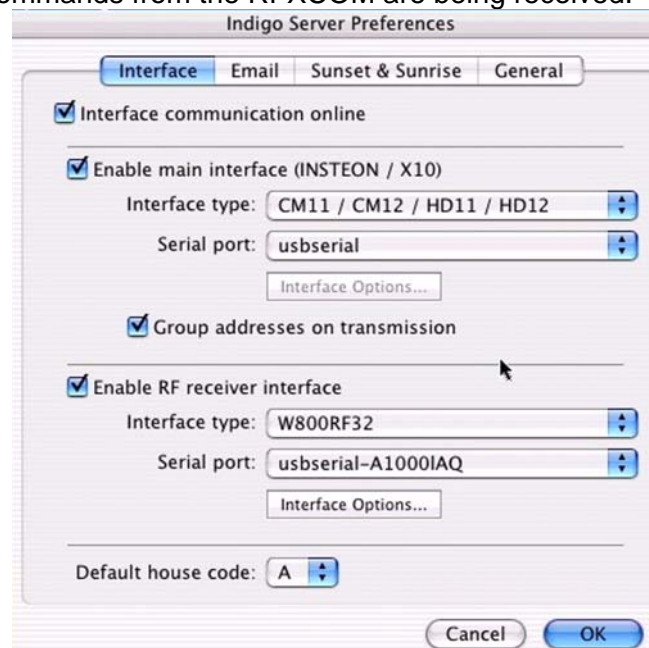
- Digimax packets are truncated at 32 bits,
- RFXPower and RFXMeter packets are truncated at 32 bits,
- X10 and Visonic security packets are truncated at 32 bits, (works well in 32bits)
- ATI packets are not received,

The receivers are initially delivered in 32 bit mode.

If the receiver is operating in the wrong mode see the receiver documentation how to changes modes.

2.3 Use the USB receiver in Indigo.

1. Launch Indigo.
2. Choose the Indigo 2->Server Preferences... menu item (Indigo 1.x users should choose the Indigo->Preferences... menu item).
3. Turn on the "Enable RF receiver interface" checkbox.
4. Select W800RF32 from the Interface type popup control.
5. Select the serial port (do NOT choose a serial port with "Bluetooth" or "modem" in its name).
6. Press OK to close the preferences dialog.
7. Watch the Event Log window (available via the Window->Event Log menu item) to see if incoming commands from the RFXCOM are being received.



3 Receiver with Ethernet interface.

3.1 Install the Ethernet receiver.

1. Connect the RFXCOM Ethernet receiver to the LAN with a DHCP server present in the network.
Note: the WLAN+LAN RFXCOM interface are delivered with the LAN interface enabled and the WLAN is disabled.
2. If a WLAN only device is used, set the WLAN Access Point with SSID = LTRX_IBSS and use an Infrastructure network.

For a detailed description see the RFXCOM Ethernet document
http://www.rfxcom.com/documents/RFXCOM_Ethernet_Interface.pdf

3.2 Configure the Ethernet controller.

The 71000 RFXCOM Ethernet interface must be configured using Telnet.
The other RFXCOM Ethernet interfaces can be configured using a web browser or Telnet.
All RFXCOM Ethernet interfaces can also be configured using a terminal emulator and the optional RFXCOM RS232 Serial Interface module.

3.3 Test the Ethernet interface connection.

To be completed.

3.4 Use the Ethernet receiver in Indigo.

Not yet supported.

4 Transmitter with USB interface.

4.1 *Install USB transmitter and driver.*

1. Do NOT connect the USB plug before installing the USB drivers!
2. Install the latest USB drivers from the FTDI site.
<http://www.ftdichip.com/Drivers/VCP.htm>
3. Connect the RFXCOM USB transmitter and install the drivers just downloaded.
4. Insert the handshake cable.
If you have an RFXCOM receiver, connect the other end of the handshake cable to the receiver. The RFXCOM receiver must be operational.
If you don't have an RFXCOM receiver connect the top and the middle pin of the jack connector together.

4.2 *Use the USB transmitter in Indigo.*

To be completed.

5 Transmitter with Ethernet interface.

5.1 *Install the Ethernet transmitter.*

1. Connect the RFXCOM Ethernet transmitter to the LAN with a DHCP server present in the network.
Note: the WLAN+LAN RFXCOM interface are delivered with the LAN interface enabled and the WLAN is disabled.
2. If a WLAN only device is used, set the WLAN Access Point with SSID = LTRX_IBSS and use an Infrastructure network.

For a detailed description see the RFXCOM Ethernet document
http://www.rfxcom.com/documents/RFXCOM_Ethernet_Interface.pdf

5.2 *Configure the Ethernet controller.*

The 71000 RFXCOM Ethernet interface must be configured using Telnet.
The other RFXCOM Ethernet interfaces can be configured using a web browser or Telnet.
All RFXCOM Ethernet interfaces can also be configured using a terminal emulator and the optional RFXCOM RS232 Serial Interface module.

5.3 *Use the Ethernet transmitter in Indigo.*

Not yet supported.

6 RFXMeter.

6.1 *Install the RFXPwr hardware.*

If the RFXMeter has also RFXPulse module(s) installed then place the RFXPwr at the location Module 0. The RFXMeter is then powered by the RFXPwr and the RFXMeter doesn't need a dedicated power supply then.

Put the power supply of the RFXPwr in a wall outlet that is connected to the same power phase as the one you are measuring with the CT (Current Transformer).

If the red LED on the RFXPwr module is on then turn the CT on the power line.

6.2 *RFXPwr in Indigo.*

Not yet supported.

6.3 *Install the RFXPulse hardware.*

If the RFXMeter has also RFXPwr module(s) installed then place the RFXPwr at the location Module 0. The RFXMeter is then powered by the RFXPwr and the RFXMeter doesn't need a dedicated power supply then.

If no RFXPwr is present in the RFXMeter power the RFXMeter using the delivered 9V AC/AC power adaptor. If a DC power adaptor is used then connect the positive voltage (+) to the outside and the negative voltage (-) to the inside of the power plug.

6.4 *RFXPulse in Indigo.*

Not yet supported.

7 RFXSensor.

7.1 Install the RFXSensor.

To be completed.

7.2 Install additional sensors.

To be completed.

7.3 RFXSensor in Indigo.

Not yet supported.

8 Warning:

RF signals are possible disturbed and it has not been justified for this equipment at uses in circumstances where life-threatening or dangerous situations are possible.

9 Copyright notice

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10 Revision history.

Version 0.0 – October 11, 2007
Initial version.