

Ethernet Interface

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1. Table of Contents

1.	Table of Contents	2
2.	Ethernet interface.....	3
3.	Receiver installation in an Ethernet module.....	4
4.	Configuring the Ethernet interface.....	5
4.1.	Use the Windows DeviceInstaller.....	5
4.2.	Configure the LAN interface - 1 COM Port with Xport-Direct.....	6
4.2.1.	Step 1 - Connect to the Ethernet interface.....	6
4.2.2.	Step 2 - Configure the Server.....	6
4.2.3.	Step 3 - Configure the COM port.....	6
4.2.4.	Step 4 – Save the configuration.....	6
4.3.	Configure the WLAN interface - 2 COM Ports with Matchport b/g.....	7
4.3.1.	Step 1 - Connect to the Ethernet interface.....	7
4.3.2.	Step 2 - Configure the Network.....	7
4.3.3.	Step 3 - Configure 1 st COM port.....	7
4.3.4.	Step 4 - Configure 1 st COM port Connection.....	8
4.3.5.	Step 5 - Configure 2 nd COM port.....	8
4.3.6.	Step 6 - Configure 2 nd COM port Connection.....	8
4.3.7.	Step 7 - Configure WLAN.....	9
4.3.8.	Step 8 – Save the Configuration.....	9
4.4.	Configure the LAN interface - 2 COM Ports with Wiport NR.....	10
4.4.1.	Step 1 - Connect to the Ethernet interface.....	10
4.4.2.	Step 2 - Configure the Network.....	10
4.4.3.	Step 3 - Configure 1 st COM port.....	10
4.4.4.	Step 4 - Configure 1 st COM port Connection.....	11
4.4.5.	Step 5 - Configure 2 nd COM port.....	11
4.4.6.	Step 6 - Configure 2 nd COM port Connection.....	11
4.4.7.	Step 7 – Save the Configuration.....	11
4.5.	Configure the WLAN+LAN interface - 2 COM Ports.....	12
4.5.1.	Step 1 - Connect to the Ethernet interface.....	12
4.5.2.	Step 2 - Configure the Network.....	12
4.5.3.	Step 3 - Configure 1 st COM port.....	12
4.5.4.	Step 4 - Configure 1 st COM port Connection.....	13
4.5.5.	Step 5 - Configure 2 nd COM port.....	13
4.5.6.	Step 6 - Configure 2 nd COM port Connection.....	13
4.5.7.	Step 7 - Configure WLAN.....	14
4.5.8.	Step 8 – Save the Configuration.....	14
4.6.	Install the Windows COM Port redirector.....	15
5.	Ports to open in a Firewall.....	15
6.	The RS232 data format used.....	15
6.1.	For receivers.....	15
6.2.	For transmitters.....	15
7.	Power adaptor.....	16
8.	Detailed documentation and available software.....	16
9.	Locked out yourself due to wrong LAN or WLAN settings?.....	16
10.	Warning:.....	17
11.	Copyright notice.....	17
12.	Revision history.....	18

2. Ethernet interface.

The function of the Ethernet interface is to facilitate I/O connections to the RF receivers and RF transmitters. The Ethernet Interface communicates with the system using a TCP/IP connection. The device controller in the RFXCOM Ethernet interface communicates to the RFXCOM receivers and transmitter via the internal COM port(s).

For the Windows platform a COM port redirector is available. All existing Home Automation software based on Windows that is using COM port communication to the RFXCOM receivers can also use the RFXCOM Ethernet interface without any change.

The RFXCOM receivers have a W800 compatible receiving mode and all existing W800 Home Automation software based on Windows can also use the RFXCOM Ethernet interface without any modifications.

All software supporting TCP/IP connections can also use the RFXCOM Ethernet Interface. An example of TCP/IP communications is implemented in the RFreceiver and RFtransmitter programs. These programs are available at the download page of www.rfxcom.com.

There are 4 types of RFXCOM Ethernet Interfaces:

1. **LAN version with 1 port – 71000.**

For 2 receivers (Master+Slave) or 1 transmitter.

Protocols supported: ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP and DHCP.

Configuration using Telnet.

LAN interface 10/100Mb.

2. **LAN version with 2 ports – 73000 or 76000.**

a. **Version 73000**

For 2 receivers (Master+Slave) and 1 transmitter.

Protocols supported: ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP, SNMP and SMTP.

Configuration using Telnet or web browser.

LAN interface 10/100Mb.

b. **Version 76000**

For 2 receivers (Master+Slave) and 1 transmitter.

Protocols supported: ARP, UDP, TCP, Telnet, ICMP, SNMP, DHCP, BOOTP, Auto IP, HTTP, SMTP, TFTP, HTTPS, SSH, SSL, FTP, PPP.

Configuration using Telnet or web browser.

LAN interface 10/100Mb.

3. **WLAN version with 2 port – 72000.**

For 2 receivers (Master+Slave) or 1 transmitter.

Protocols supported: ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP, SNMP and SMTP.

Configuration using Telnet or web browser.

Wireless interface 802.11b/g (11 and 54Mb) with WEP, WPA or 802.11i WPA2.

4. **WLAN+LAN version with 2 ports – 74000 or 75000.**

a. **Version 74000**

For 2 receivers (Master+Slave) and 1 transmitter.

Protocols supported: ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP, SNMP and SMTP.

LAN interface 10/100Mb.

Configuration using Telnet or web browser.

Wireless interface 802.11b/g (11 and 54Mb) with WEP, WPA.

b. **Version 76000**

For 2 receivers (Master+Slave) and 1 transmitter.

Protocols supported: ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP, SNMP and SMTP.

LAN interface 10/100Mb.

Configuration using Telnet or web browser.

Wireless interface 802.11b/g (11 and 54Mb) with WEP, WPA or 802.11i WPA2.

The RFXCOM Ethernet Interface uses the Internet Protocol (IP) for network communications. It uses the Transmission Control Protocol (TCP) to assure that no data is lost or duplicated, and that everything sent to the connection arrives correctly at the target. TCP, UDP and telnet are used for the serial port.

TFTP is used for firmware updates of the Ethernet device controller.

IP is used for addressing, routing, and data block handling over the network.

User Datagram protocol (UDP) for typical datagram applications in which devices interact with other devices without maintaining a point-to-point connection.

HTTP is used for the build-in web server to configure the Ethernet device controller.

SNMP is used for network monitoring.

SMTP is used for email transmissions.

3. **Receiver installation in an Ethernet module.**

Disconnect the power from the Ethernet module.

The Master receiver should be plugged in into the JP4 connector of the Ethernet module.

An optional Slave receiver must always be plugged into the JP5 connector.

An Ethernet module with 1 COM port can only have mounted:

- 1 Master receiver **OR** 1 Master receiver and 1 Slave receiver

OR

- 1 Transmitter in JP6. (4800bd only)

An Ethernet module with 2 COM ports can have mounted:

- 1 Master receiver **OR** 1 Master receiver and 1 Slave receiver

AND

- 1 Transmitter in JP6. (4800bd only)

4. Configuring the Ethernet interface.

The examples given here are the simplest configurations. Encryption and security is not configured but if there is a need for you have the possibility to do so. In the product documentation are all configuration options in detail described.

4.1. Use the Windows DeviceInstaller.

Download and install the [DeviceInstaller](#) software.

LAN version:

Connect the LAN cable to a network with DHCP server.

WLAN version:

Connect to a WLAN network channel 11, security disabled, SSID set to LTRX_IBSS and a DHCP server available.

Note: if no DHCP server is found a random IP will be assigned in the range 169.254.0.1 to 169.254.255.254

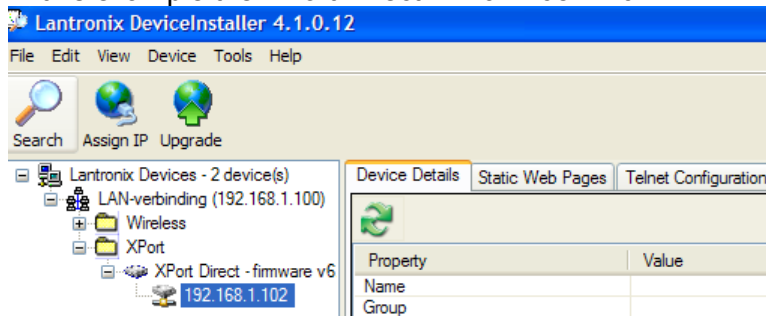
Connect the power adaptor to the Ethernet interface.

Important: the adaptor must be the delivered 5volt 1.2A DC switched power supply with the + as center pin. A non compatible power adaptor will destroy the Ethernet interface and the installed receivers/transmitter!

Start the DeviceInstaller software and click Search.

Select the RFXCOM Ethernet interface you want to configure.

In this example the XPort Direct IP 192.168.1.102:



4.2. Configure the LAN interface - 1 COM Port with Xport-Direct.

4.2.1. Step 1 - Connect to the Ethernet interface.

This interface has an XPort Direct device server module and doesn't have web configuration.

Using the DeviceInstaller.

- Select the device,
- Click Telnet Configuration,
- Click Connect,
- Press Enter

Using a Telnet connection. (In Windows use HyperTerminal)

- Open a connection to the IP of the Ethernet interface and select port 9999.
- Press and hold the x key,
- Attach the power to the Ethernet interface,
- Press Enter when the message "Press Enter for Setup Mode" appears.

4.2.2. Step 2 - Configure the Server.

Select 0.

Enter a valid IP address for the network you want to connect the Ethernet interface to.

Gateway IP address = N.

Netmask = 0

Change Telnet config password = N

4.2.3. Step 3 - Configure the COM port.

Select 1.

Baudrate (4800) ? 4800

I/F Mode (4C) ? 4C if receivers installed, CC if a transmitter installed.

Flow (00) ? 00

Port No (10001) ? 10001 (or another free port)

ConnectMode (C0) ? C0

Send '+++' in Modem Mode (Y) ? Y

Auto increment source port (N) ? N

Remote IP Address : (000) .(000) .(000) .(000)

Remote Port (0) ?

DisConnMode (00) ?

FlushMode (F7) ?

Pack Cntrl (00) ?

DisConnTime (00:00) ?:

SendChar 1 (00) ?

SendChar 2 (00) ?

4.2.4. Step 4 – Save the configuration.

Select 9.

The device can now be tested using RFreceiver or RFtransmitter and select the configured IP and port number.

4.3. Configure the WLAN interface - 2 COM Ports with Matchport b/g.

This interface has a Matchport b/g device server module and has web configuration.

4.3.1. Step 1 - Connect to the Ethernet interface.

Using the DeviceInstaller.

- Select the device,
- Click Web Configuration,
- Click Go.

Using a web browser.

Enter http:// followed by the IP number.

Click OK (no username and password)

4.3.2. Step 2 - Configure the Network.

Select Network.

Enter a valid IP address for the network you want to connect the Ethernet interface to.

Enter the subnet mask and default gateway (if any) and click OK at the bottom of the page.

DHCP Host Name:

Use the following IP configuration

IP Address:

Subnet Mask:

Default Gateway:

4.3.3. Step 3 - Configure 1st COM port.

Select Channel 1 – Serial Settings.

Set all parameters as displayed below

Set Stop Bits to 2 if an RFXCOM transmitter is installed in JP4 of the Ethernet interface.

Click OK at the bottom of the page.

Channel 1

Disable Serial Port

Port Settings

Protocol: Flow Control:

Baud Rate: Data Bits: Parity: Stop Bits:

Pack Control

Enable Packing

Idle Gap Time:

Match 2 Byte Sequence: Yes No

Match Bytes: (Hex)

Send Frame Only: Yes No

Send Trailing Bytes: None One Two

Flush Mode

Flush Input Buffer	Flush Output Buffer
With Active Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No	With Active Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No
With Passive Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No	With Passive Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No
At Time of Disconnect: <input checked="" type="radio"/> Yes <input type="radio"/> No	At Time of Disconnect: <input checked="" type="radio"/> Yes <input type="radio"/> No

4.3.4. Step 4 - Configure 1st COM port Connection.

Select Channel 1 – Connection.

Set the Local port to the required number. If 10001 is not used in your system configuration set it to 10001. Set all other parameters as displayed below and click OK at the bottom of the page.

Channel 1

Connect Protocol

Protocol: TCP

Connect Mode

Passive Connection:	Active Connection:
Accept Incoming: Yes	Active Connect: None
Password Required: <input type="radio"/> Yes <input checked="" type="radio"/> No	Start Character: 0x0D (in Hex)
Password: <input type="text"/>	Modem Mode: None
	Modem Escape Sequence Pass Through: <input checked="" type="radio"/> Yes <input type="radio"/> No

Endpoint Configuration:

Local Port: 10001	<input type="checkbox"/> Auto increment for active connect
Remote Port: 0	Remote Host: 0.0.0.0

Common Options:

Telnet Mode: Disable	Connect Response: None
Terminal Name: <input type="text"/>	Use Hostlist: <input type="radio"/> Yes <input checked="" type="radio"/> No
	LED: Blink

Disconnect Mode

On Mdm_Ctrl_In Drop: <input type="radio"/> Yes <input checked="" type="radio"/> No	Hard Disconnect: <input checked="" type="radio"/> Yes <input type="radio"/> No
Check EOT(Ctrl-D): <input type="radio"/> Yes <input checked="" type="radio"/> No	Inactivity Timeout: 0 : 0 (mins : secs)

4.3.5. Step 5 - Configure 2nd COM port.

Select Channel 2 – Serial Settings.

Set Stop Bits to 2 if an RFXCOM transmitter is installed in JP6 of the Ethernet interface.

Set all other parameters as displayed at “Select Channel 1 – Serial Settings” above.

Click OK at the bottom of the page.

4.3.6. Step 6 - Configure 2nd COM port Connection.

Select Channel 2 – Connection.

Set the Local port to the required number. If 10002 is not used in your system configuration set it to 10002.

Set all other parameters as displayed at “Select Channel 1 – Connection” above.

Click OK at the bottom of the page.

4.3.7. Step 7 - Configure WLAN.

Select WLAN. (only for the WLAN interface)

Enter the SSID for your network. This SSID must be the same as used in your WLAN Access Point (AP).

Set the required security (WEP, WPA or 802.11i WPA2) and this must also match the security setting in your WLAN Access Point.

Click OK at the bottom of the page.

Network Interface:

Wireless Network Configuration

Network Name (SSID):

Network Type: Infrastructure
 Ad Hoc

Channel: United States

Wireless Network Security

Security:

Authentication:

Encryption:

Key Type: Hex Passphrase

Key:

Retype Key:

Advanced Settings

Data Rate: Auto

Radio Power Management: Enable Disable

4.3.8. Step 8 – Save the Configuration.

Click Apply Settings on the left.

4.4. Configure the LAN interface - 2 COM Ports with Wiport NR.

This LAN interface has a WiPort NR installed. It has a web configuration available. For the LAN interface equipped with a Matchport AR see chapter **Fout! Verwijzingsbron niet gevonden.**

4.4.1. Step 1 - Connect to the Ethernet interface.

Using the DeviceInstaller.

- Select the device,
- Click Web Configuration,
- Click Go.

Using a web browser.

Enter http:// followed by the IP number.
Click OK (no username and password)

4.4.2. Step 2 - Configure the Network.

Select Network.

Enter a valid IP address for the network you want to connect the Ethernet interface to.
Enter the subnet mask and default gateway (if any) and click OK at the bottom of the page.

DHCP Host Name:

Use the following IP configuration

IP Address:

Subnet Mask:

Default Gateway:

4.4.3. Step 3 - Configure 1st COM port.

Select Channel 1 – Serial Settings.

Set all parameters as displayed below

Set Stop Bits to 2 if an RFXCOM transmitter is installed in JP4 of the Ethernet interface.

Click OK at the bottom of the page.

Channel 1

Disable Serial Port

Port Settings

Protocol: Flow Control:

Baud Rate: Data Bits: Parity: Stop Bits:

Pack Control

Enable Packing

Idle Gap Time:

Match 2 Byte Sequence: Yes No

Match Bytes: Send Frame Only: Yes No

(Hex) Send Trailing Bytes: None One Two

Flush Mode

Flush Input Buffer	Flush Output Buffer
With Active Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No	With Active Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No
With Passive Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No	With Passive Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No
At Time of Disconnect: <input checked="" type="radio"/> Yes <input type="radio"/> No	At Time of Disconnect: <input checked="" type="radio"/> Yes <input type="radio"/> No

4.4.4. Step 4 - Configure 1st COM port Connection.

Select Channel 1 – Connection.

Set the Local port to the required number. If 10001 is not used in your system configuration set it to 10001. Set all other parameters as displayed below and click OK at the bottom of the page.

Channel 1

Connect Protocol

Protocol: TCP

Connect Mode

Passive Connection:	Active Connection:
Accept Incoming: Yes	Active Connect: None
Password Required: <input type="radio"/> Yes <input checked="" type="radio"/> No	Start Character: 0x0D (in Hex)
Password: <input type="text"/>	Modem Mode: None
	Modem Escape Sequence Pass Through: <input checked="" type="radio"/> Yes <input type="radio"/> No

Endpoint Configuration:

Local Port: 10001	<input type="checkbox"/> Auto increment for active connect
Remote Port: 0	Remote Host: 0.0.0.0

Common Options:

Telnet Mode: Disable	Connect Response: None
Terminal Name: <input type="text"/>	Use Hostlist: <input type="radio"/> Yes <input checked="" type="radio"/> No
	LED: Blink

Disconnect Mode

On Mdm_Ctrl_In Drop: <input type="radio"/> Yes <input checked="" type="radio"/> No	Hard Disconnect: <input checked="" type="radio"/> Yes <input type="radio"/> No
Check EOT(Ctrl-D): <input type="radio"/> Yes <input checked="" type="radio"/> No	Inactivity Timeout: 0 : 0 (mins : secs)

4.4.5. Step 5 - Configure 2nd COM port.

Select Channel 2 – Serial Settings.

Set Stop Bits to 2 if an RFXCOM transmitter is installed in JP6 of the Ethernet interface.

Set all other parameters as displayed at “Select Channel 1 – Serial Settings” above.

Click OK at the bottom of the page.

4.4.6. Step 6 - Configure 2nd COM port Connection.

Select Channel 2 – Connection.

Set the Local port to the required number. If 10002 is not used in your system configuration set it to 10002.

Set all other parameters as displayed at “Select Channel 1 – Connection” above.

Click OK at the bottom of the page.

4.4.7. Step 7 – Save the Configuration.

Click Apply Settings on the left.

4.5. Configure the WLAN+LAN interface - 2 COM Ports.

The WLAN+LAN interface has a WiPort or a Matchport b/g installed. Both have a web configuration available.

4.5.1. Step 1 - Connect to the Ethernet interface.

Using the DeviceInstaller.

- Select the device,
- Click Web Configuration,
- Click Go.

Using a web browser.

Enter http:// followed by the IP number.
Click OK (no username and password)

4.5.2. Step 2 - Configure the Network.

Select Network.

Enter a valid IP address for the network you want to connect the Ethernet interface to.
Enter the subnet mask and default gateway (if any) and click OK at the bottom of the page.

DHCP Host Name:

Use the following IP configuration

IP Address:

Subnet Mask:

Default Gateway:

4.5.3. Step 3 - Configure 1st COM port.

Select Channel 1 – Serial Settings.

Set all parameters as displayed below

Set Stop Bits to 2 if an RFXCOM transmitter is installed in JP4 of the Ethernet interface.
Click OK at the bottom of the page.

Channel 1

Disable Serial Port

Port Settings

Protocol: Flow Control:

Baud Rate: Data Bits: Parity: Stop Bits:

Pack Control

Enable Packing

Idle Gap Time:

Match 2 Byte Sequence: Yes No

Match Bytes: Send Frame Only: Yes No

(Hex) Send Trailing Bytes: None One Two

Flush Mode

Flush Input Buffer	Flush Output Buffer
With Active Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No	With Active Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No
With Passive Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No	With Passive Connect: <input checked="" type="radio"/> Yes <input type="radio"/> No
At Time of Disconnect: <input checked="" type="radio"/> Yes <input type="radio"/> No	At Time of Disconnect: <input checked="" type="radio"/> Yes <input type="radio"/> No

4.5.4. Step 4 - Configure 1st COM port Connection.

Select Channel 1 – Connection.

Set the Local port to the required number. If 10001 is not used in your system configuration set it to 10001. Set all other parameters as displayed below and click OK at the bottom of the page.

Channel 1

Connect Protocol

Protocol: TCP

Connect Mode

Passive Connection:	Active Connection:
Accept Incoming: Yes	Active Connect: None
Password Required: <input type="radio"/> Yes <input checked="" type="radio"/> No	Start Character: 0x0D (in Hex)
Password: <input type="text"/>	Modem Mode: None
	Modem Escape Sequence Pass Through: <input checked="" type="radio"/> Yes <input type="radio"/> No

Endpoint Configuration:

Local Port: 10001	<input type="checkbox"/> Auto increment for active connect
Remote Port: 0	Remote Host: 0.0.0.0

Common Options:

Telnet Mode: Disable	Connect Response: None
Terminal Name: <input type="text"/>	Use Hostlist: <input type="radio"/> Yes <input checked="" type="radio"/> No
	LED: Blink

Disconnect Mode

On Mdm_Ctrl_In Drop: <input type="radio"/> Yes <input checked="" type="radio"/> No	Hard Disconnect: <input checked="" type="radio"/> Yes <input type="radio"/> No
Check EOT(Ctrl-D): <input type="radio"/> Yes <input checked="" type="radio"/> No	Inactivity Timeout: 0 : 0 (mins : secs)

4.5.5. Step 5 - Configure 2nd COM port.

Select Channel 2 – Serial Settings.

Set Stop Bits to 2 if an RFXCOM transmitter is installed in JP6 of the Ethernet interface.

Set all other parameters as displayed at “Select Channel 1 – Serial Settings” above.

Click OK at the bottom of the page.

4.5.6. Step 6 - Configure 2nd COM port Connection.

Select Channel 2 – Connection.

Set the Local port to the required number. If 10002 is not used in your system configuration set it to 10002.

Set all other parameters as displayed at “Select Channel 1 – Connection” above.

Click OK at the bottom of the page.

4.5.7. Step 7 - Configure WLAN.

Select WLAN. (only for the WLAN interface)

Enter the SSID for your network. This SSID must be the same as used in your WLAN Access Point (AP).

Set the required security (WEP, WPA or 802.11i WPA2) and this must also match the security setting in your WLAN Access Point.

Click OK at the bottom of the page.

Network Interface:

Wireless Network Configuration

Network Name (SSID):

Network Type: Infrastructure
 Ad Hoc

Channel: United States

Wireless Network Security

Security:

Authentication:

Encryption:

Key Type: Hex Passphrase

Key:

Retype Key:

Advanced Settings

Data Rate: Auto

Radio Power Management: Enable Disable

4.5.8. Step 8 – Save the Configuration.

Click Apply Settings on the left.

4.6. **Install the Windows COM Port redirector.**

COM Port redirector. (only available for Windows)

If you want to use the [COM Port Redirector](#) software download and install it.

If during installation you get the question to install .NET 1.xxx then click that link and install that .NET version even if you have already a newer version of .NET installed.

Run the installed CPR Manager.

In the menu select COM Port and select Add and Remove.

Select the COM port number you want to add.

Double click on the added COM port and enter for Service 1 the IP at Host and the Port number at TCP Port.

E.g.: if the Ethernet device has been assigned the IP192.168.1.102 and Port 10001

Service	Host	TCP Port
1	192.168.1.102	10001
2		

Check: Buffer Writes, Server Reconnect, Timeout Reconnect and TCP KeepAlive.

Set Connection Timeout=2, KeepAlive Time=60000, KeepAlive Interval=30000

The screenshot shows the configuration window for the COM Port Redirector. It includes several sections:

- Buffer Writes:** Buffer Writes (Keep checked for better write performance)
- Server Reconnect:** Server Reconnect
- No Net Close:** No Net Close
- Connection Timeout (in seconds):** 2
- Timeout Reconnect:** Timeout Reconnect
- Reconnect Limit (0 = forever):** 0
- Listen Mode:** Listen Mode
- Normal - port closed after disconnect:** (dropdown menu)
- TCP Port:** (input field)
- Add To Firewall:** (button)
- TCP KeepAlive:** TCP KeepAlive
- KeepAlive Time (msec):** 60000
- KeepAlive Interval (msec):** 30000

Save the configuration.

Start RFreceiver or RFtransmitter to test the device using the configured COM port.

5. **Ports to open in a Firewall.**

If the RFXCOM Ethernet Interface is behind a firewall then open the next ports:

9999 to 10002	TCP / UDP
30718	UDP
42282 to 42283	UDP

6. **The RS232 data format used.**

6.1. **For receivers.**

- 4800bd, 8 bits data, no parity, 1 stop bit.
- Optional 38400 bd, 8 bits data, no parity, 1 stop bit.

6.2. **For transmitters.**

- 4800bd, 8 bits data, no parity, 2 stop bits.

7. Power adaptor.

The RFXCOM Ethernet Interface is powered by a power adaptor with these specifications:

- 5 Volt DC
- 1.2 Ampere
- Switched power
- Plug 5mm / 1.7mm – center pin = +
- Input voltage 100-240V AC 50-60Hz

WARNING: Don't use an adaptor that doesn't match these specifications. The RFXCOM Ethernet Interface will be destructed when using the wrong power or polarity!

8. Detailed documentation and available software.

The RFXCOM Ethernet interfaces make use of embedded device servers modules.

For more information, user documentation and the latest firmware click the links.

The LAN 1 Port RFXCOM Ethernet Interface uses the [Xport-Direct](#).

The LAN 2 Ports RFXCOM Ethernet Interface uses the [WiPort NR](#).

The WLAN 2 Ports RFXCOM Ethernet Interface uses the [Matchport b/g](#).

The WLAN+LAN 2 Ports RFXCOM Ethernet Interface uses the [WiPort](#) or a [Matchport b/g](#).

9. Locked out yourself due to wrong LAN or WLAN settings?

If you have locked out yourself due to wrong configuration of the LAN or WLAN parameters you have the possibility to configure the embedded controller via the first COM port of the embedded controller.

1. Power down the Ethernet interface.
2. Open the enclosure and remove the receivers or transmitter from the JP4 and JP5 connectors.
3. Make an asynchronous 9600,8,N,1 connection with the embedded controller using the RS232 Serial Interface Module.
4. Start a terminal emulator.
HyperTerminal can be used in Windows. For Vista or Linux you can use PuTTY for example. <http://www.chiark.greenend.org.uk/~sgtatham/putty/>
5. Press and hold the x key and power up the RFXCOM WLAN/LAN interface.
6. Read the user guide of the embedded controller with the detailed instructions how to configure the device.

10. 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.

11. Copyright notice

It is forbidden to use any RFXCOM device, software or protocol as part of an exclusive or patented product without the express prior written permission of RFXCOM.

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12. Revision history.

Version 3.0 – September 26, 2007

Chapter 9 added.

Configuration of types 75000 and 76000 added to chapter 4.

Version 3.1 – October 6, 2007

Types 75000 and 76000 added to chapter 2

Version 4.0 – March 17, 2008

Retry settings in CPR added.

Version 4.1 – November 23, 2008

Copyright message extended.

Version 4.2 – January 12, 2009

Terminal emulator for Vista added,
Matchport-AR removed.