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# User's Guide

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# OM-SQ-NET-ADAP
## NetPort Ethernet to RS232 Adaptor

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**WARNING:** These products are not designed for use in, and should not be used for, human applications.

# Configuring the NetPort Ethernet to RS232 Adaptor

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# References

[1] XPort_DeviceInstaller_UG_900-310.pdf – Device Installer User Guide:-
http://www.lantronix.com/pdf/XPort_UG.pdf

# Overview

The main aim of this document is to specify the settings required for the NetPort to enable it to connect to your OMEGA logger via an Ethernet network.

*As the nstaller program knows t he Netport device as 'Xport', the term 'Xport' may be used inter-changeably in this document.*

## *Prerequisites*

Before proceeding with the installation you will require all of the following:-

- NetPort device (OM-SQ-NET-ADAP)
- Lantronix Windows 'Installer' program version 3.3. Provided on your OMEGALOG® CD and installed to your OMEGALOG® installation directory
- Networked PC that is able to access the network on which you intend to install the NetPort device
- Network connection at where you wish the NetPort device to reside

***NOTE***
In case of any problems connecting to a Logger through a network, please seek assistance from your IT administrator before contacting OMEGA Engineering.

For more detailed information relating to the NetPort device the reader should refer to the Lantronix Device Installer User Guide document [1].

# Installing the ‘Installer’ Application

The Lantronix Installer program referred to in the remainder of this document must be installed; this application will allow you to configure the device.

The installation program can be found in the ‘\Tools\NetPort’ folder in your OMEGALOG® installation directory (also on the OMEGALOG® CD).

To install:

1. Go to the following directory:- \Program Files\OMEGALOG\Tools\NetPort

2. Double click on the file XPortInstaller.msi

   NOTE: if a message appears asking you to install the .NET framework you must do the following first.
- Double click on the file dotnetfx.exe (under \Progra m Files\OMEGALOG\Miscellaneous)
- Once installation has completed repeat step 2

3. Follow the instructions in the XPort installer wizard.

4. Upon completion of the installation click **Close** to exit

# Configuring the Device

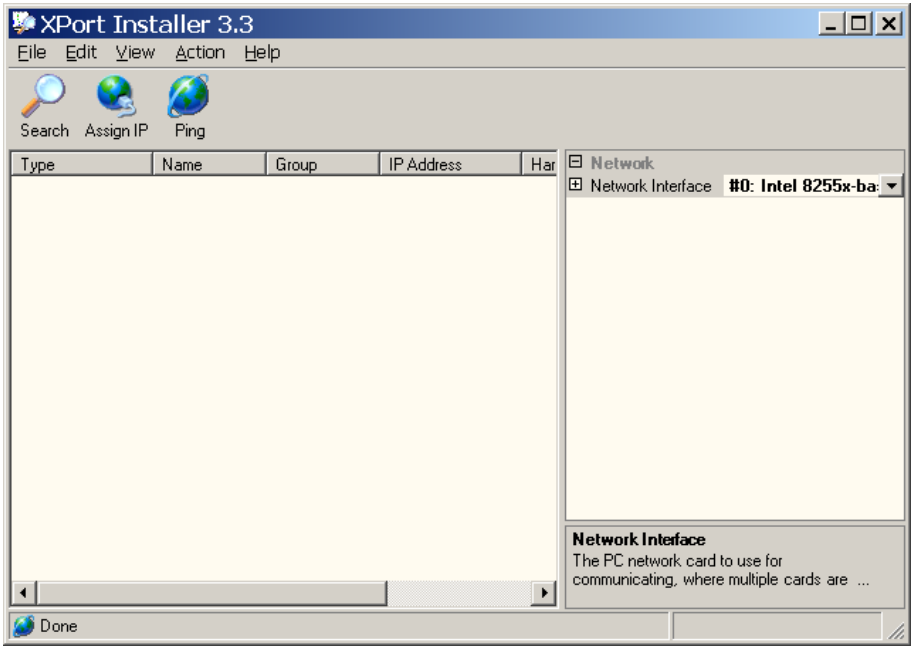
## *Connecting the NetPort Device*

Connect the device between your data logger and Network as follows:-

1. Connect an Ethernet cable to the NetPort port labelled '10/100Mbit/s Ethernet'
2. Connect the NetPort 9-pin D-Type serial connector to the logger's serial port.
3. Plug in the supplied power supply to either of the 'DC Power' connectors on the NetPort.

## *Running the Installer Application*

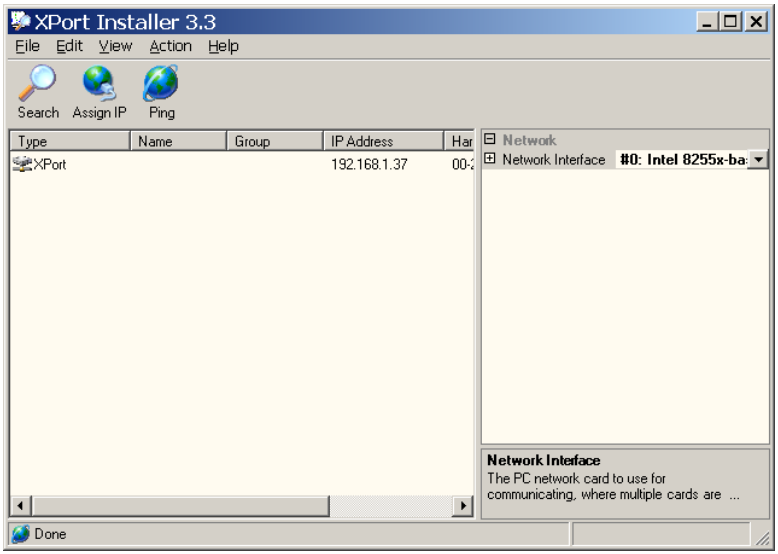
- To start the installer program. Click the **Start** button on the task bar. Then click **Programs** (**All Programs** in Windows XP). One of the folders listed should be named **Lantronix**, click on this folder followed by **XPort Installer**. In the list displayed click on **Installer**.



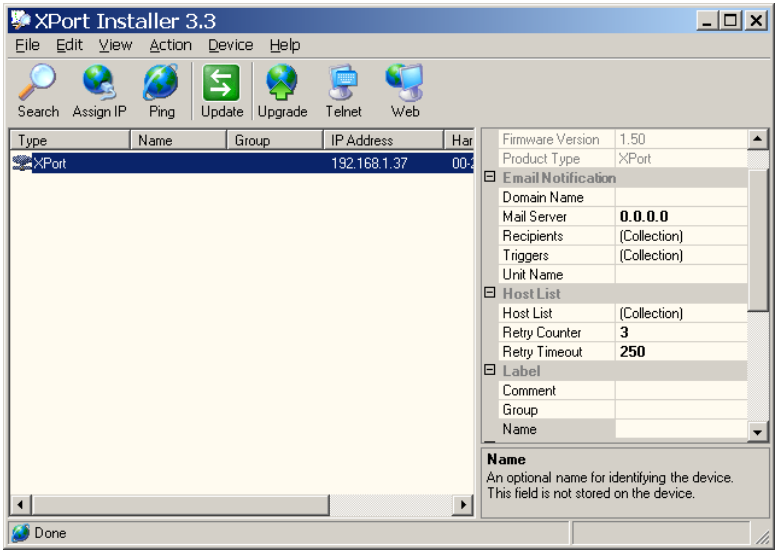

- Ensure that the 'Network Interface', selectable at the top of the right hand Window, is set to the Ethernet controller of your PC.

- Press the

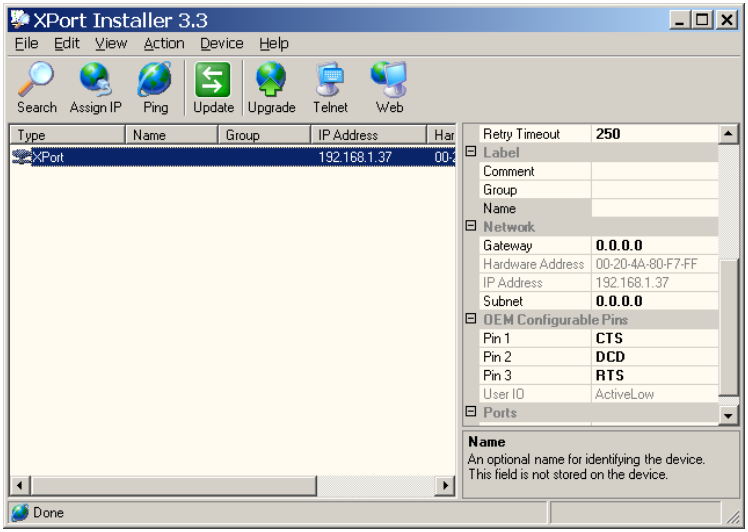
button. This will search your local network for any XPort devices. When found the devices will be listed in the left hand window.




- Select the device you wish to configure from the list.



- In the right hand window move the slider down and until you see the 'Network' settings




- Before proceeding you must speak to your network administrator to get the following information regarding the network you will be connecting the XPort device to:
  - The network gateway
  - The network subnet
  - An available IP address.
    - This should ideally be a static IP address.
    - The second best would be an assigned address.
    - The worst best would be a leased address with a significant time out.
    - One of the above must be found. Failure to do so could result in problems communicating with the logger in the event of a reset of the XPort device caused by a power failure.

- When you have an IP address from your network administrator as detailed above note it down here __.__.__.__. This will be required when setting up communications from within SquirrelView.

- If the IP address given to you by your network administrator is different from the one in the column titled 'IP Address' above you must perform the following additional step:

  Click the

address button.
  In the displayed dialog type in the IP address given to you by the network administrator. Then click on the

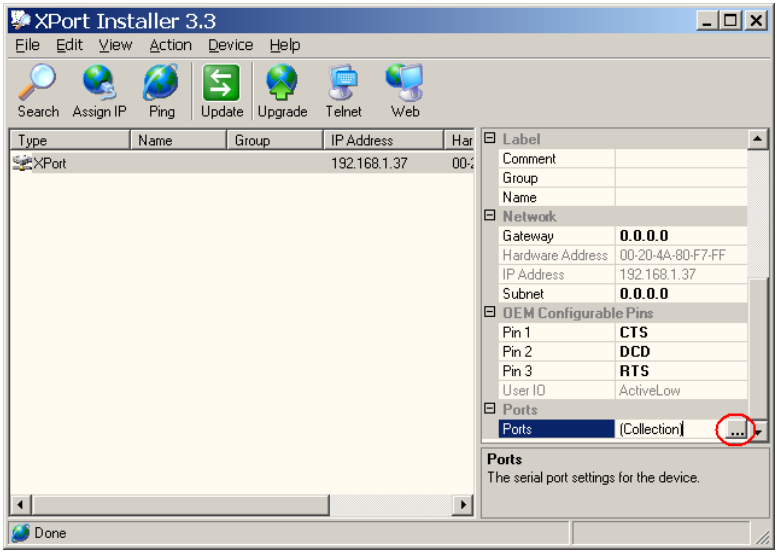
button

- Next type in the network gateway and subnet values from the network administrator in the Network section shown in the diagram above.

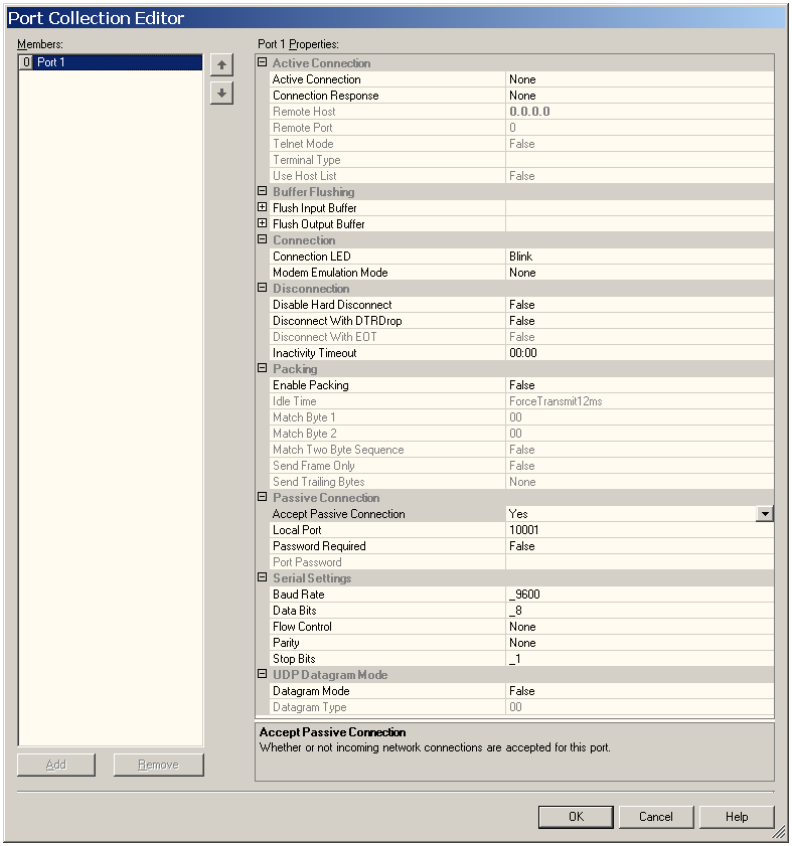
## *Configuring the NetPort serial port.*

- In the right hand window move the slider down and click the mouse pointer in the ‘Ports’ field.

- Click on the button circled below.



- The ‘Port Collection Editor’ window will be displayed.



- In the Port Collection Editor window set only the following parameters by clicking on the field and typing in the values or selecting them from the pull down list if present.

  Under 'UDP Datagram Mode'
  'Datagram Mode'
  - 'True'

  'Datagram Type'
  - '01'

  Under 'Active Connection'
  'Remote Host'
  - Leaving the default setting of '0.0.0.0' will allow any user with SquirrelView on their PC to talk to the logger.
  - If you wish to restrict access to the logger to only one PC running SquirrelView enter the IP address of that PC here.

  'Remote Port'
  - Set this to '4096' only if you have set an IP address for the 'Remote Host'

  Under 'Passive Connection'
  'Accept Passive Connection'
  - 'Yes'

  'Local Port'
  - '4096'

  Under 'Serial Settings'
  'Baud Rate'
  - '115200'

  'Data Bits'
  - '8'

  'Flow Control'
  - 'None'

  'Parity'
  - 'None'

  'Stop Bits'
  - '1'

- Click the button at the bottom of the screen.

- In the initial Installer screen click the

button to send the port configuration to the XPort device.

- Wait while the status for the device is 'busy' and the settings are sent to the XPort device.

- You may now exit the Installer application

***The device is now configured for use. To use with OMEGALOG®, use the assistant communications wizard referring to the IP address noted earlier in this document.***

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