



Sensor - Data logger - Web service
The smart instruments specialist

USER GUIDE

Access point AP2-LAN



This device complies with FCC radiation exposure limits set forth for general population. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

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1 Introduction

This device is a radio access point used to transfers data into remote sensors nearby via a LAN connection. A serial to ethernet interface is embedded in the device. We provide to our clients a command list or a software library, to drive the access point. They are able to manage it with their own software and paired the sensors (temperature recorders, loggers, sensors).

2 Connection to the internal serial access point using the LAN network

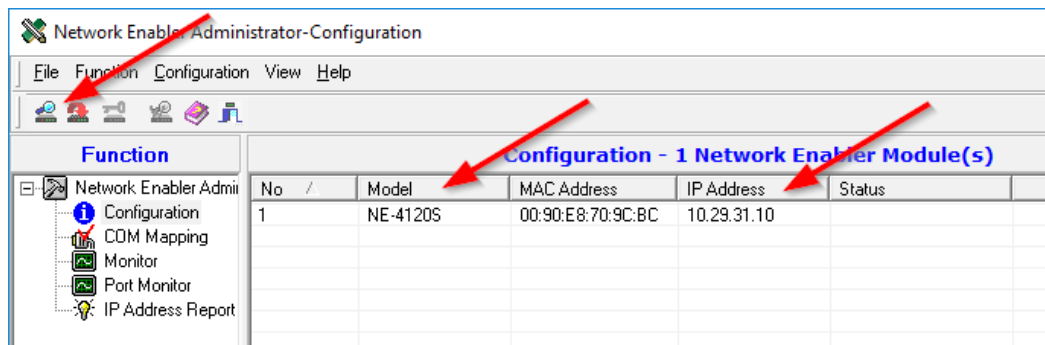
The AP2-LAN radio access point contains an Ijinus radio board (T2004) and a Moxa NE-4120s RS-232 Ethernet interface. The moxa board allows RS232 communication through a LAN Network. A COM port will be created and will be used for serial link operations.

- Install the Moxa Network Enabler Administrator software

It can be downloaded here :

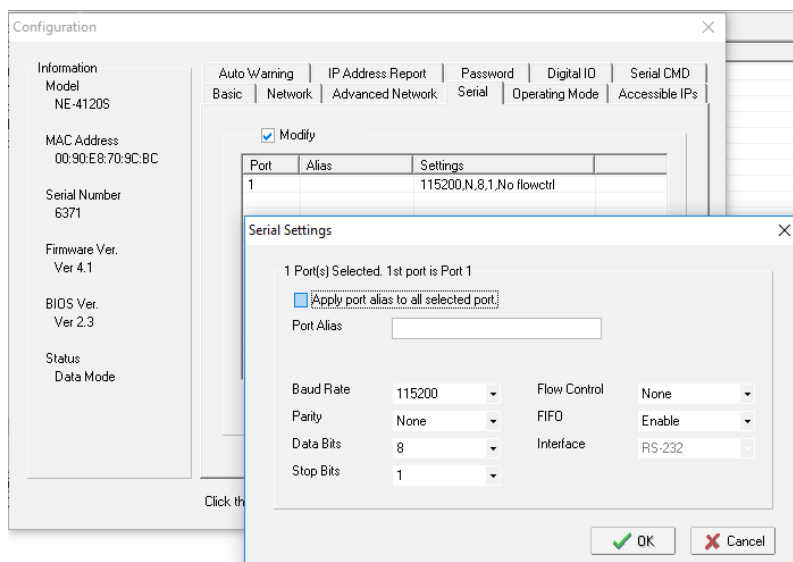
<https://www.moxa.com/Moxa/media/PDIM/S100000224/moxa-ne-4100-series-network-enabler-administrator-utility-v2.11.zip>

This tool allows the discovery of the NE4120s on the network and its configuration.

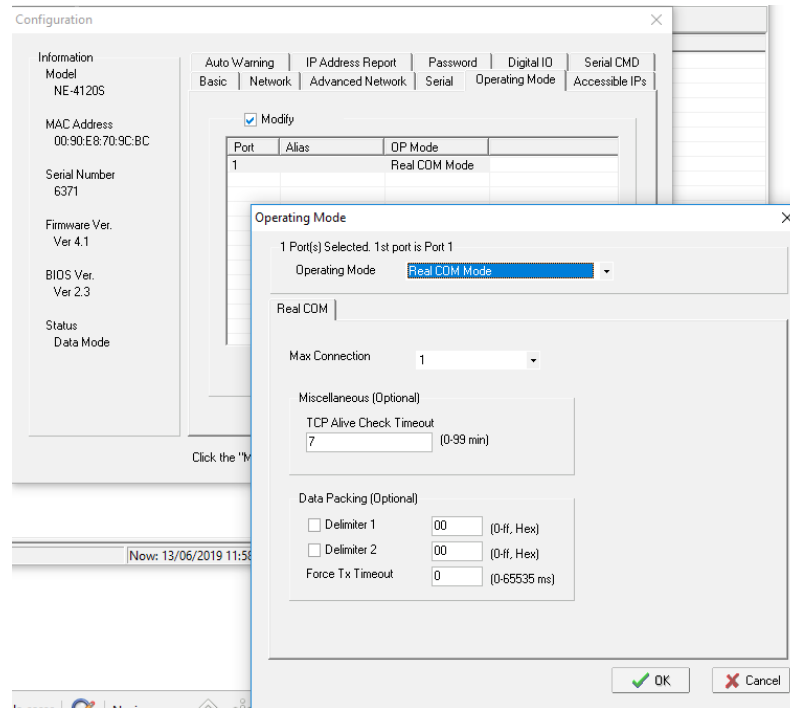


- Set the NE-4200s has shown below :

Serial setting: 115200bps – N-8-1 – No flow control



Operation mode : RealCOM Mode

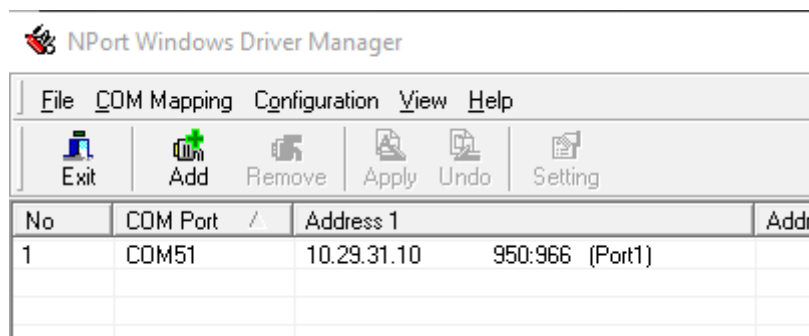


- Install Moxa driver manager

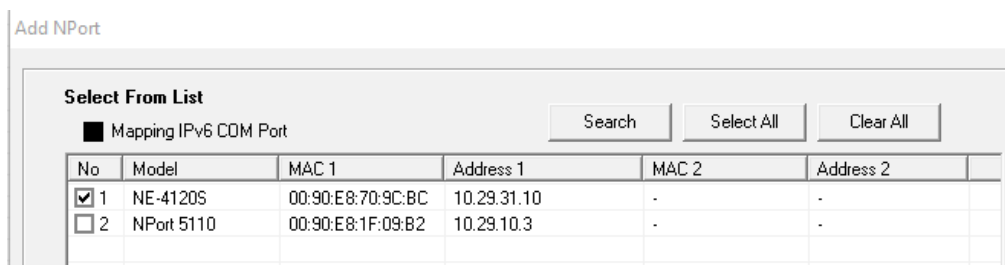
It can be downloaded here :

<https://www.moxa.com/Moxa/media/PDIM/S100000224/moxa-windows-driver-manager-driver-v3.0.zip>

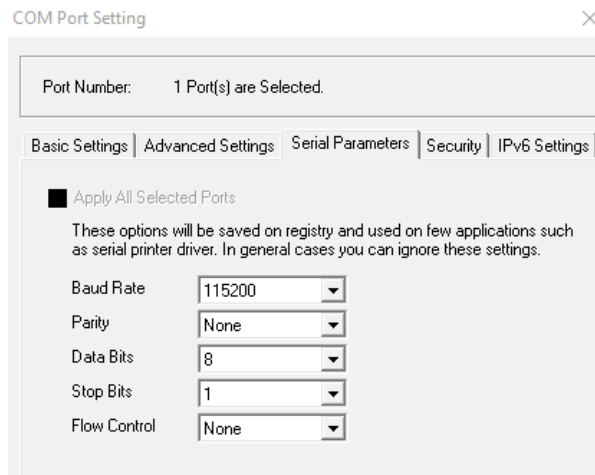
This tool allows the creation of a COM Port on your desktop. This COM Port will be used to connect the T2004 with Hyperterminal (or equivalent).



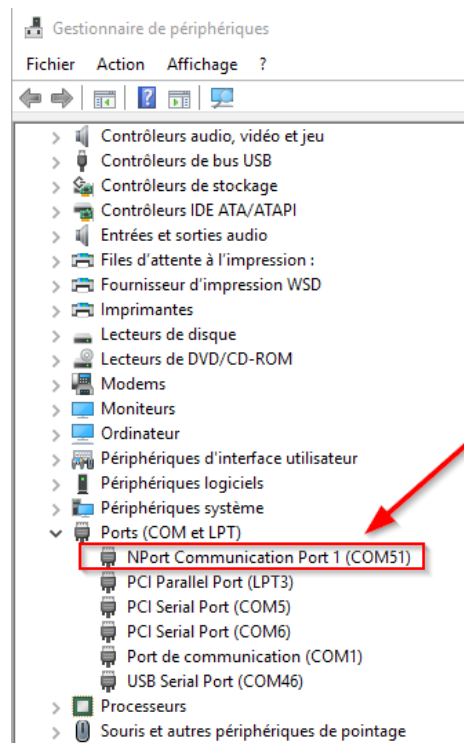
The port is added using a search the Add button and then the search utility :



Set a number to the COM Port and configure it :



The created COM port has been added in Windows peripheral manager:



3 Warning to users in the United States

Caution: the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

"NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC RF radiation exposure limits set forth for general population.

This device must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

4 Warning to users in the Canada

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

This device has been designed to operate with its own internal antenna and having a maximum gain of 0dBi.

5 Revision of the document

Date	Revision	Writer(s)	Modifications
11/21/2019	2A01	A. Le Gac D. MAHE	Creation of the document and translation