

The following Ethernet modules can be used to connect ALMEMO measuring instruments to an Ethernet PC network : Ethernet network distributor ZA5099-NVE (as driver for the ALMEMO network), Ethernet data cable ZA1945-DK (as replacement for the V24 data cable) or transmitter 8390-1 with the Ethernet option.

Hardware installation :

The Ethernet modules can be connected for configuration purposes either directly to the computer's network adapter using an RJ45 crosslink cable - or to an existing network using an RJ45 patch cable (free connection at the hub). For all Ethernet modules the user must enter a dedicated IP address and a subnet mask compatible with the envisaged network. The easiest way to do this is using the Windows® program XPort-Installer (available on the AMR CD, version 5 or later, Accessories \ Ethernet \ XPort Installer). This program can also be used to set the baud rate over the serial interface (still available) if this rate has been changed on the measuring instrument; (default setting is still 9600 baud).

Software installation :

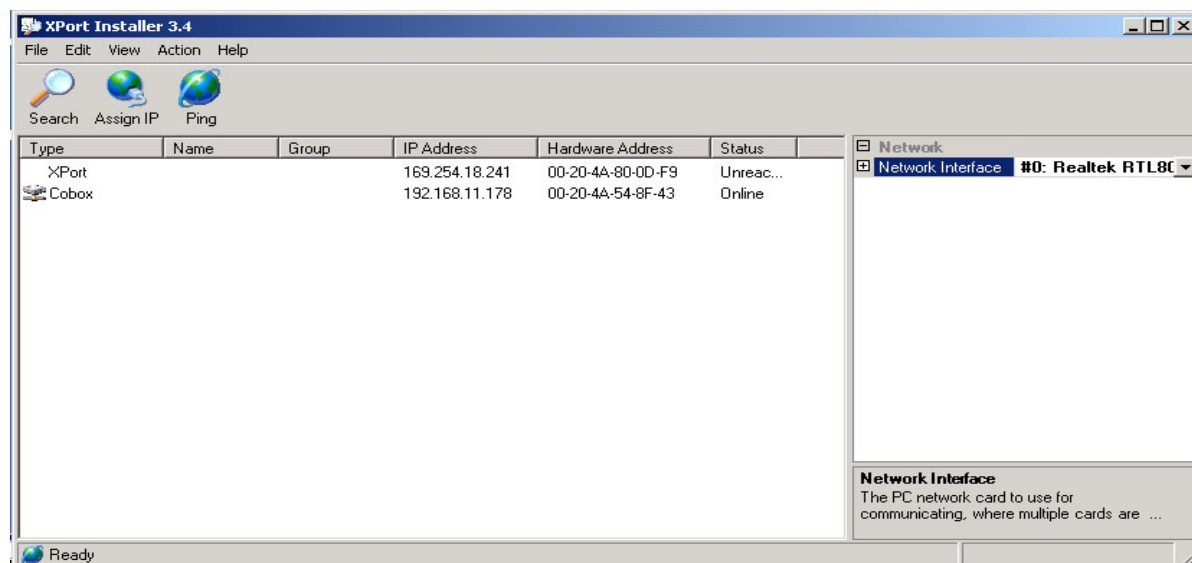
Note : XPort-Installer, to be able to run, requires the program Microsoft®.net Framework 1.1 ([dotnetfx.exe](#)). This program, if it is not already installed, can likewise be installed from the AMR CD. Or you can download the latest version via the Internet from the following URL : <http://www.microsoft.com/downloads/details.aspx?displaylang=de&FamilyID=262D25E3-F589-4842-8157-034D1E7CF3A3>

Please start the [setup routine](#) for XPort-Installer (available on the AMR CD) and follow the instructions displayed on the screen.

By default the software will be installed, unless you specify some other folder, in folder "C:\Programs\Lantronix\XPort Installer".

Configuring the Ethernet module :

Start XPort-Installer.



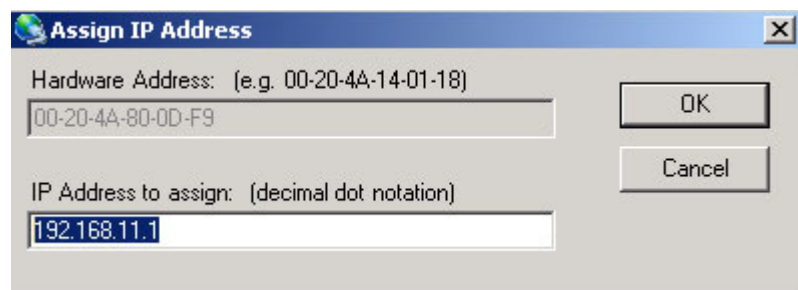
To find the modules : Actuate the command button "Search". All Ethernet modules for the connected network will now be listed. If you have more than one network adapter installed on your computer, you must select the appropriate adapter in the right-hand column of this window.

To enter the IP address : In the list of Ethernet modules click on the one to be configured and then actuate the command button “Assign IP”.

The hardware Ethernet address ensures unequivocal identification; (see module rating plate).

Under “Type” either “Cobox” (ZA 5099-NVE) or “XPort” will be displayed (depending on the module).

These are internal hardware variants and are of no significance when it comes to configuring or using the module.



In the upper input field the module’s hardware Ethernet address is displayed.

In the lower input field you should now enter the desired “IP address”, e.g. 192.168.11.1.

Actuate the command button “OK”.

The IP address you specified is now assigned. This may take several minutes - depending on the network configuration. During this time the message “Waiting for reboot” will be displayed in the status bar.

If the IP address thus programmed does not match the PC’s subnet, the message “No device was found...” will be displayed. This message can simply be acknowledged by means of “OK”.

To check the setting thus made : Actuate the “Search” button again.

In the list that then appears you can check the setting you have made. The module should now be listed together with its new IP address. If the module is currently available in the network, the status column will list it as “online”. If the status column lists the module as “unreachable”, this means that the IP address set for it lies outside the range for the computer’s subnet mask and will have to be modified accordingly. If this is not suitably modified, it will not be possible to set either the baud rate or the subnet mask.

To modify the baud rate and / or the subnet mask : Select the module in the list and actuate the command button “Web”. Your default Internet browser should then open with a display of the module’s configuration page.

Baud rate : Under “*Port Properties ... Speed*” the desired baud rate can be selected.

Subnet mask : The default setting for the subnet mask is 255.255.255.0. Under “*Server Properties ... Subnet Mask*” enter the correct value.

These settings can be saved by actuating the button “Update Settings”.

The module is now configured and can be incorporated in the measuring system.

Usage with the software AMR-Control :

In the menu *Interface ... Network ... IP address* enter the assigned IP address (e.g. 192.168.11.1). Change the TCP port from 8000 to 10001. The connected device can now be addressed using any of the standard interface commands.

Usage with the AMR data acquisition software WinControl (WC3 or option WC01) :

The IP address and TCP port are entered in the same way as with AMR-Control. To acquire data via several Ethernet modules the software AMR2IPS will also be needed.