



Quick Start Guide

1. EtherNet/IP Quick Start Guide-Platform & Hardware

This quick start guide describes how to install and monitor the **CG Drives & Automation** AC-drive (*VFX/FDU*) device with the Rockwell Automation Studio 5000 Logix Designer.

The version's of hardware and software we have used in the example is:

Studio 5000, Logix Designer Version: 21.00 Professional Edition Revision Level: (CPR 9 SR 5.1)
Allen-Bradley CompactLogix 5370 Controller, 1769-L16ER-BB1B, Firmware Revision 21.11, HMS
ABCC-EIP 2-Port, Firmware V.1.12 Build 2, HMS ABCC-EIP 1-Port, Firmware V.2.11 Build 3
Zip [file](#): 506-0174-EDS ABCC EIP 2-port.zip, 005A0000002E0100.eds (2-Port module)

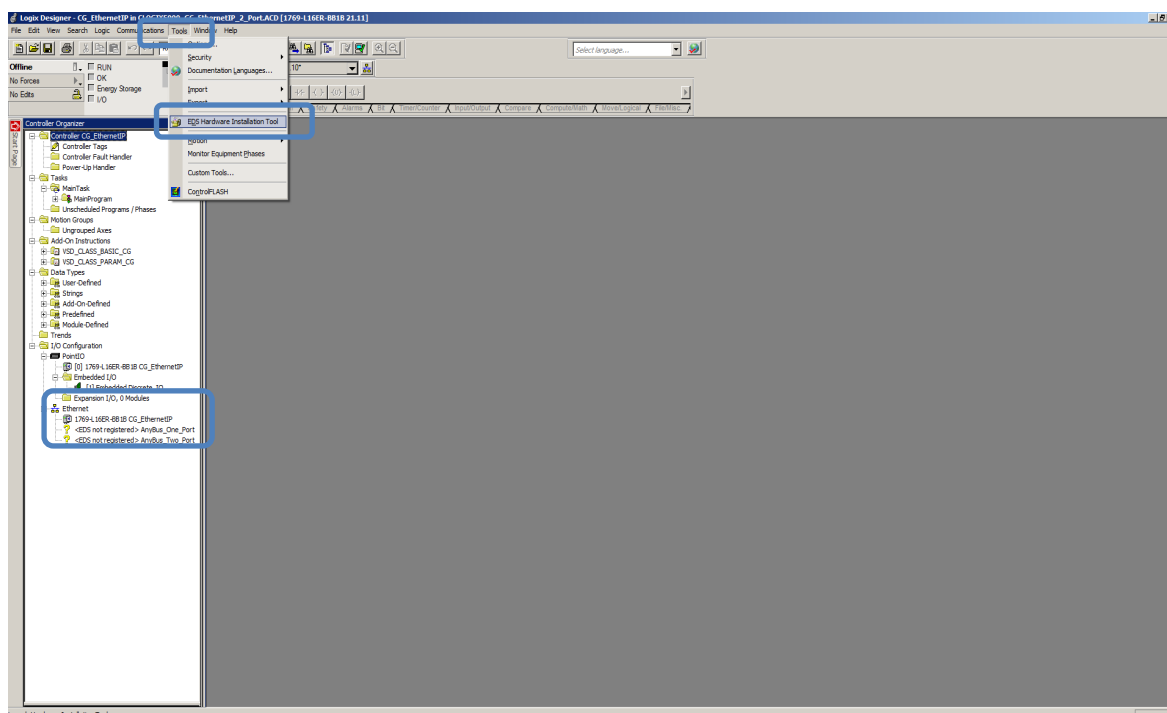
Zip [file](#): 368-8182-EDS ABCC EIP.zip, 005A000000630200.eds (1-Port module)

2. Install the EDS file

Install the EDS file “005A0000002E0100.eds” for two port device.

Open EDS hardware Installation Tool from Studio 5000

Select *Tools* from the *Logix Designer* menu and select the *EDS Hardware Installation Tool* from the dropdown list to access the tool. Observe the question mark in the *Controller Organizer* tree view <EDS not registered> AnyBus on the Ethernet node.



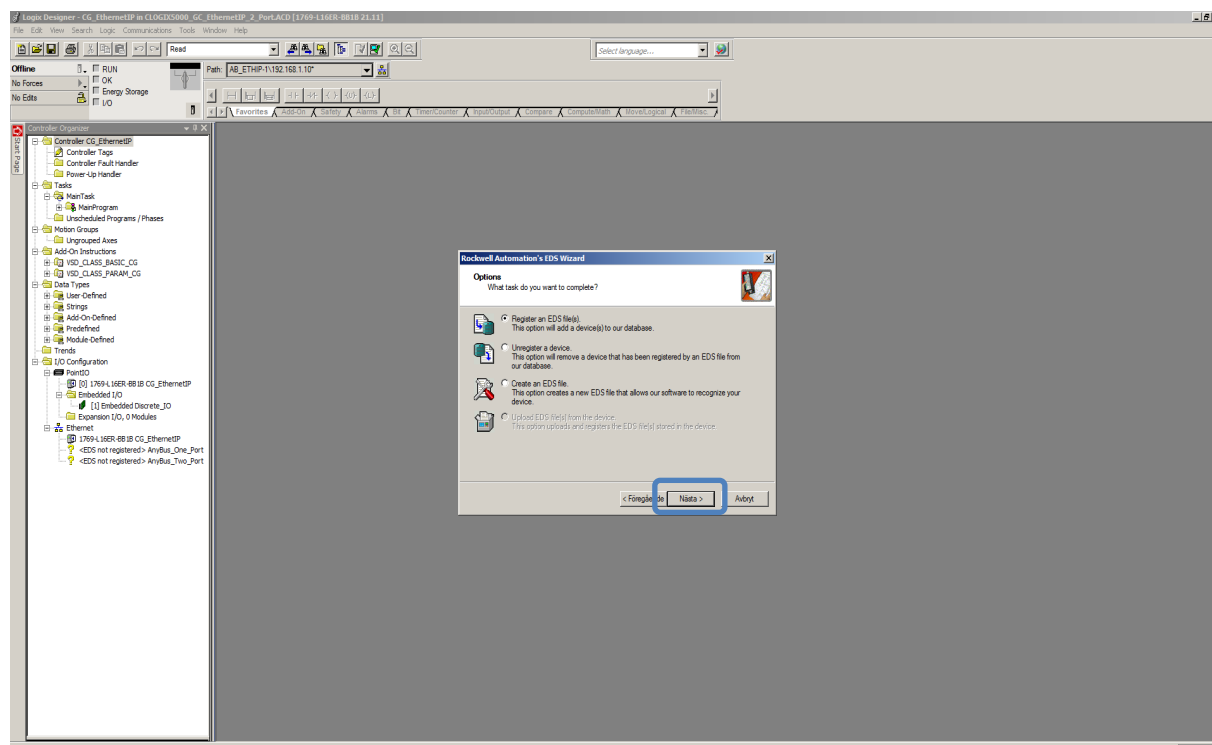


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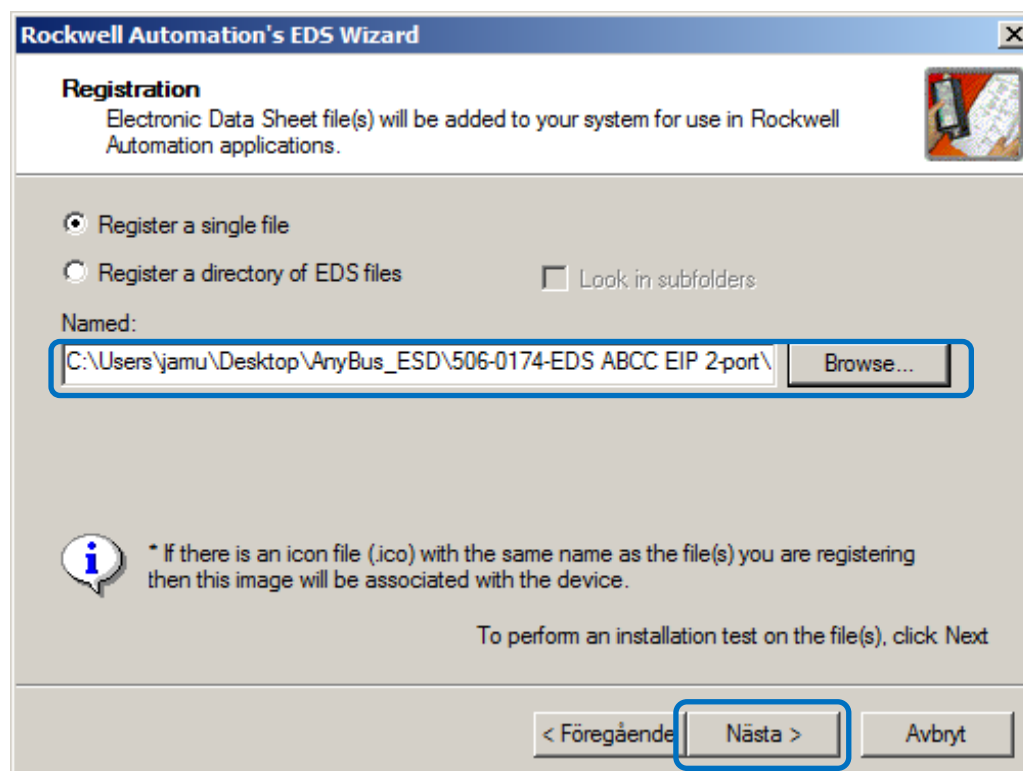
To install the EDS file

From the EDS hardware installation tool wizard screen, click on the *Next* button to get the options to handle the EDS files.

Select option: Register an EDS file and click on the *Next* button.

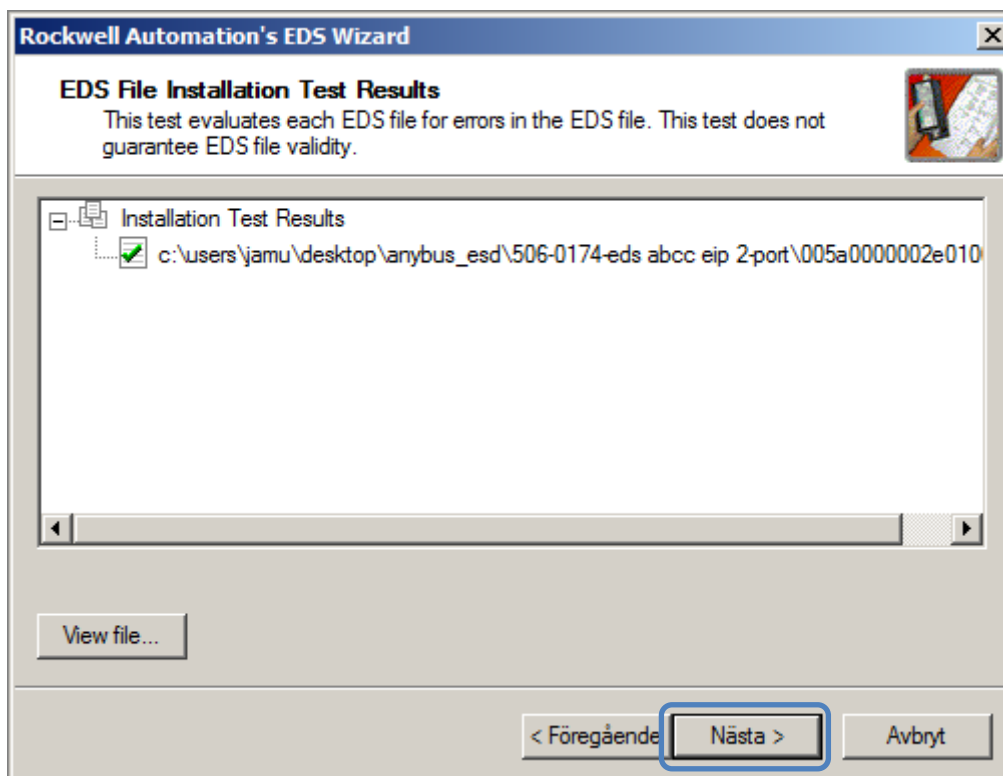


Select the file to install, *click* on the *Browse* button to get the EDS file “005A0000002E0100.eds” from the file dialog. After selecting the file, push the *Next* button.

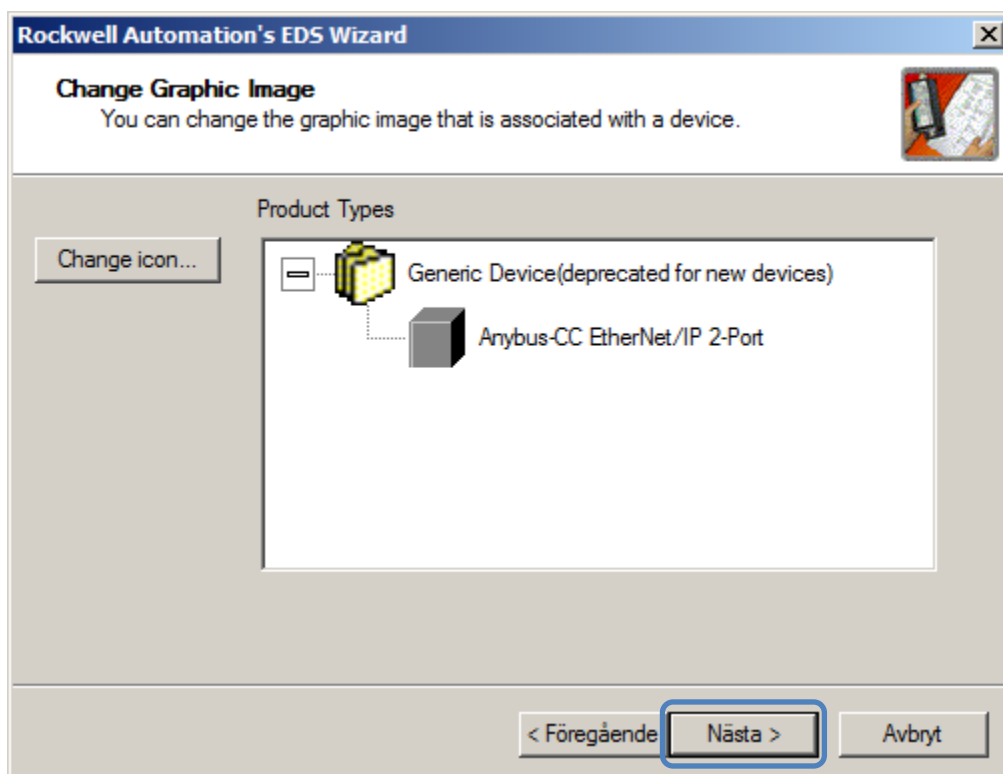


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The tools evaluate the EDS file. Click on the *Next* Button.

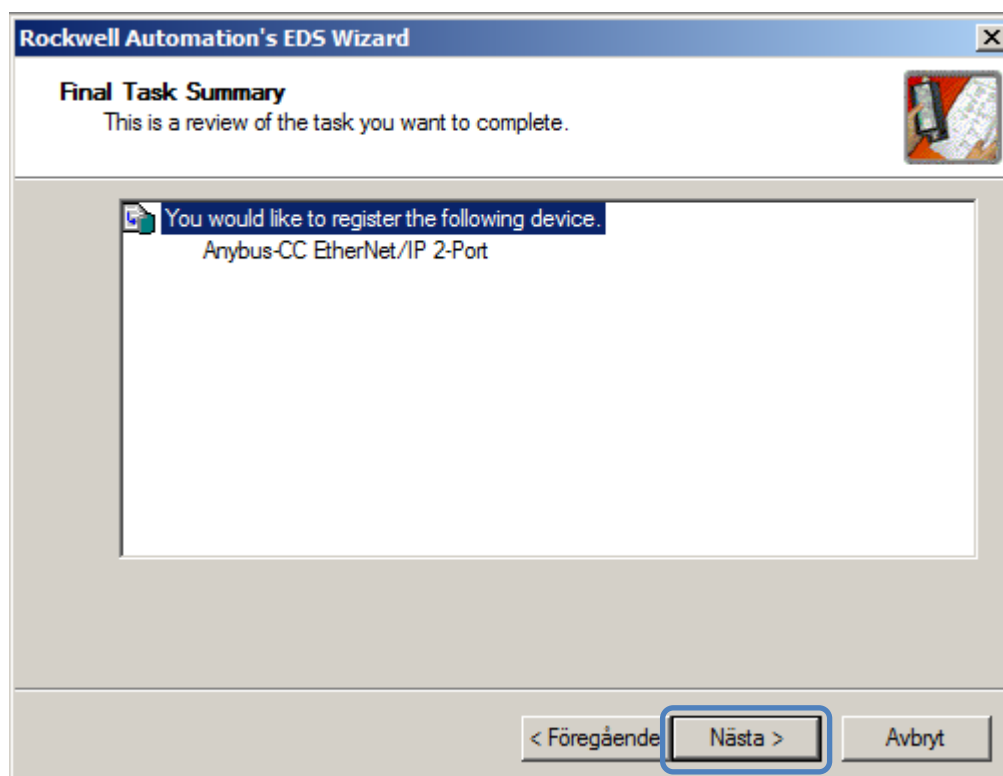


When the *Change Graphic Image* Dialog shows up, click on the *Next* button



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The *Final Task Summary* dialog shows up, click on the *Next* button



On the next final dialog click on the *End* button



Do the same procedure as above to install the 1-port module ESD file "005A000000630200.eds"



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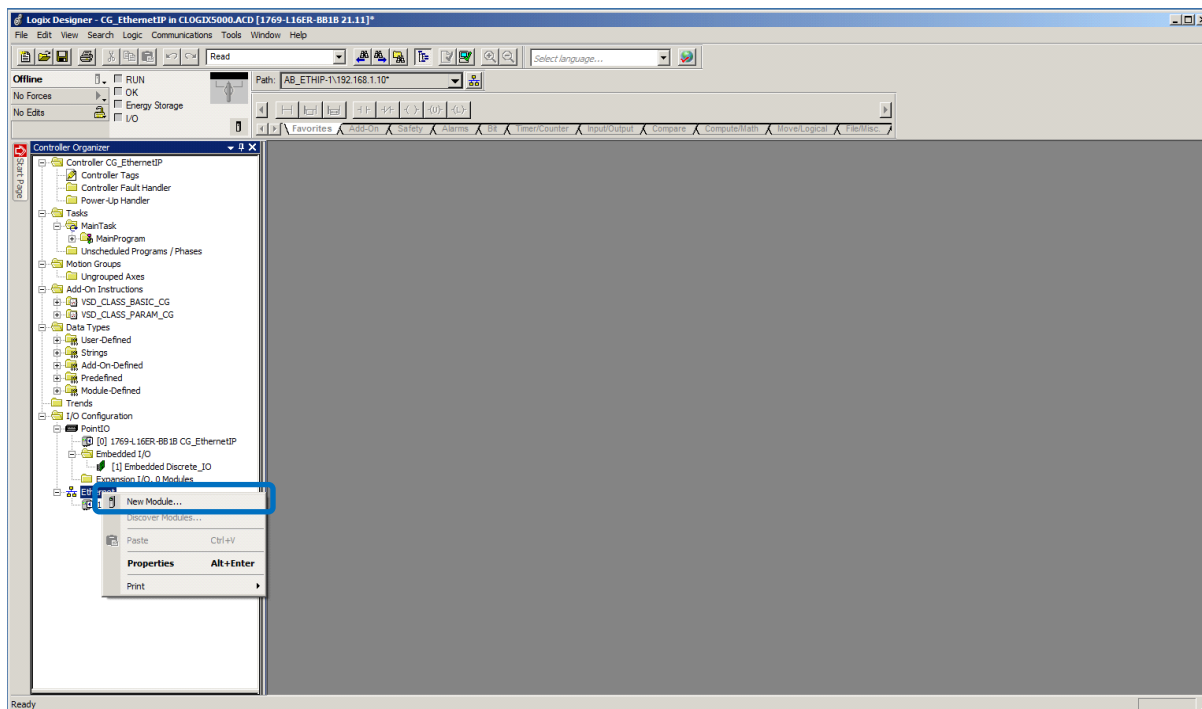
3. Setup a new HMS EtherNet/IP device

To setup a new device from the Logix Designer you need to setup a project with EtherNet/IP network support.

To add a new EtherNet/IP device

Right click on the Ethernet node to highlight the network line.

Left click on *network* and select *new module*.

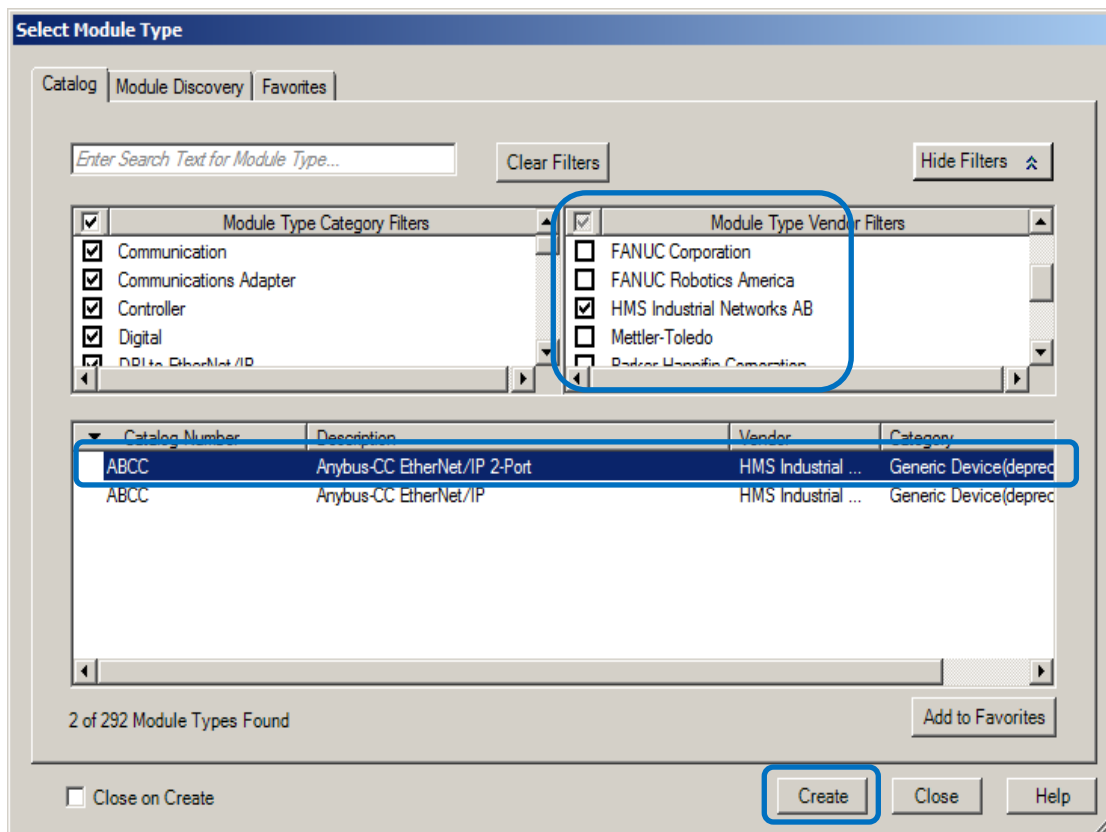


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Insert the device

Select the HMS module from the catalogue, use the filters options and set the *tick*-box for the HMS Industrial Network AB products.

Select the *EtherNet/IP 2-Port ABCC* device and click on the *Create* button.





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Configure parameters for the device

When the HMS device is to be used for the first time in the network, an IP address and a name need to be assigned for the HMS device. The name assigned in this example is *AnyBus_2_Port* and the IP Address is set to *192.168.1.12* and the sub net mask is *255.255.255.0* the gateway address is not used. These settings are done in Logix designer.

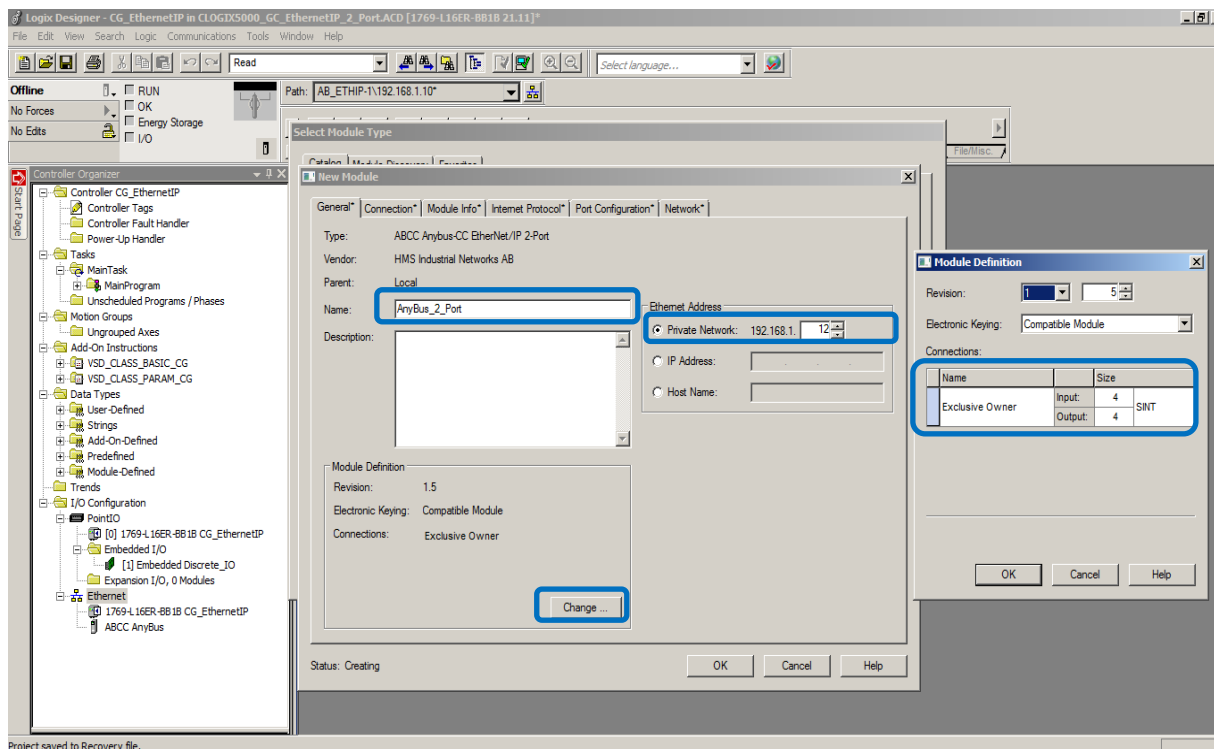
Set the size and data type for the data transfer function. Per default VSD (*VFX/FDU*) supports 4 bytes inputs and 4 bytes (basic setting).

The following settings are done on the VSD (example): menu [2632] PrData mode set to Basic and menu [2655] DHCP is set to *OFF*. The IP Address is assigned in menu [2651] Subnet Mask in menu [2653].

In the *Module definition* dialog, click on the *Change* button.

In the dialog for the module definition, set the size of the input and output data to 4 bytes in the connections setting and select SINT as a data type from the dropdown list and click *OK*.

In previous version of Rockwell developer software e.g. RSLogix 5000 the assembly instance need to be set in the Connection Parameters. For inputs the assembly instance number is assigned to 100 and for output assembly instance number is assigned 150 and for the configuration assembly the instance number is 1.





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Select the connection tab from the module properties dialog and enter a new value for *Request Packet interval* (RPI) of the module to meet your application needs. In this example, we have set the interval to 50 ms to reduce the network load. Select whether to use Unicast or Multicast for the delivery of input data. Note that for non-redundant controllers, the input type is by default Unicast. Leave the input trigger to Cyclic (trigger by transmission trigger timer).

Click on the *OK* button to finalize the settings and to close the dialog.

New Module

General* | **Connection*** | Module Info* | Internet Protocol* | Port Configuration*

Name	Requested Packet Interval (RPI) (ms)	Input Type	Input Trigger
Exclusive Owner	50.0 2.0 - 3200.0	Unicast	Cyclic

☐ Inhibit Module

☐ Major Fault On Controller If Connection Fails While in Run Mode

Module Fault

Status: Creating

OK Cancel Help



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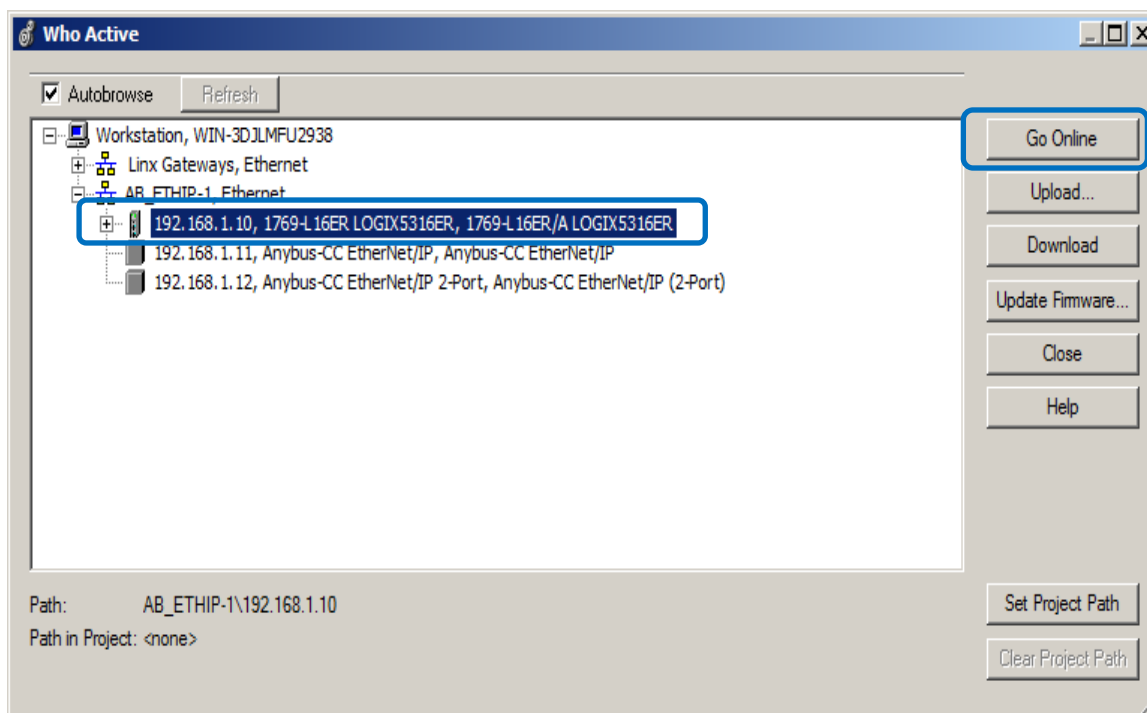
Download the settings to the controller

When all the above settings are done it is possible to perform a download of the configuration to the controller. Connect and access the controller from Logix Designer, use the communication tool (RSLinx).

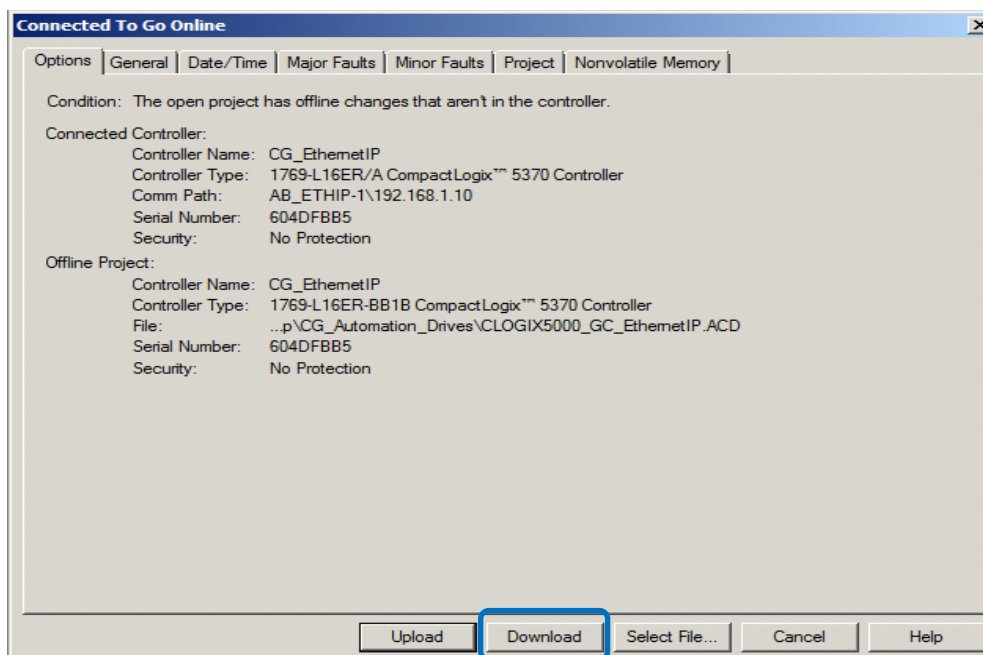
To access the controller

Menu: Select *communications* and *Who Active*.

Select: The target controller module from the tree view dialog and click on the *Go Online* button.

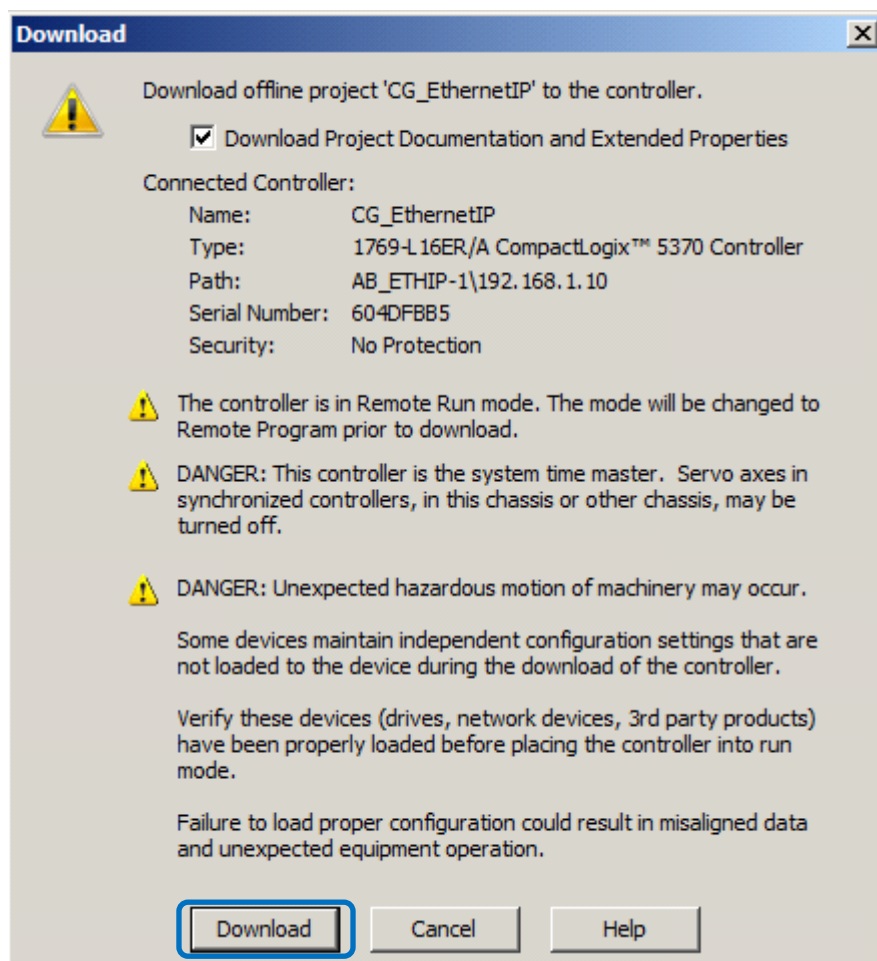


In the next dialog, click on the *Download* button.



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To confirm the download on the second dialog, click on the *download* button.



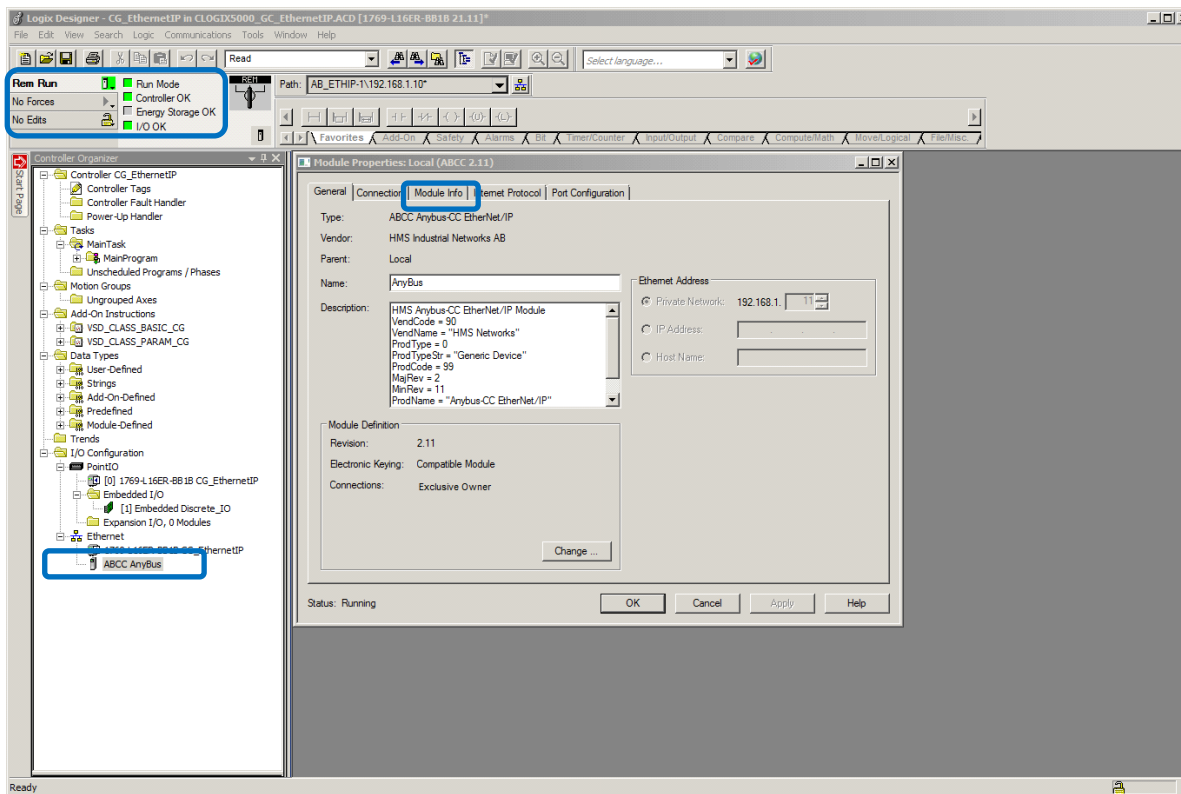


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Monitor online to verify the device status

To verify that device is communicating properly. You need to go on line monitoring state with the Logix Designer.

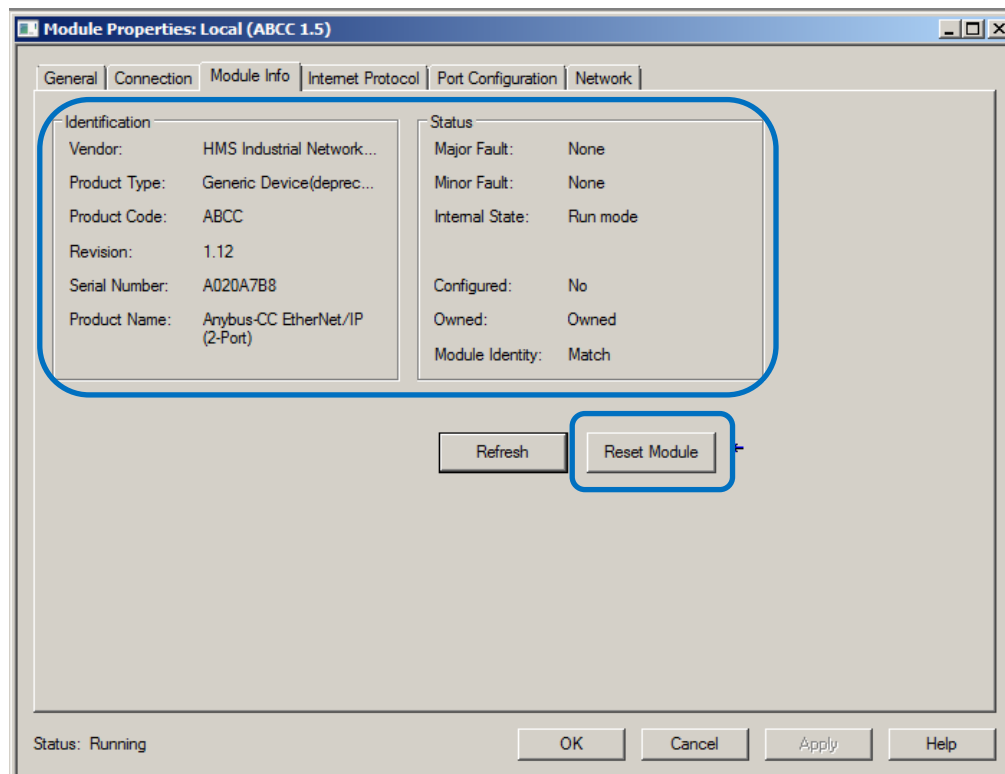
Select the module and *right click* on the device from the Module properties dialog select the *Module info* Tab.



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Module info. monitor

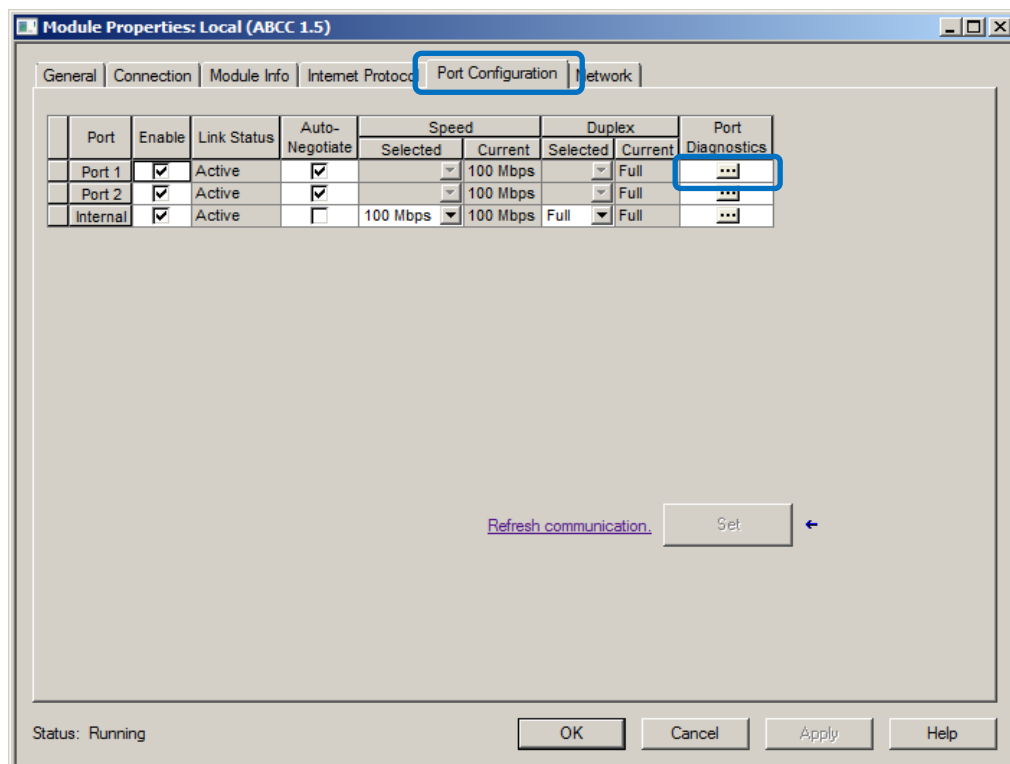
The module info displays the information about the identification for the HMS Anybus module and the module status information on the right side. From this dialog you have the possibility to manually reset the module, if there are any module faults present.





Module Port configuration monitor.

Select the port configuration tab from the Module properties dialog and *click* on the *Port diagnostics* button.



Port diagnostic dialog monitors the information of the communication interface (Data package info.) and media transport status.

