

## Title: Configuring an Ethernet adapter in MotionWorksIEC using instructions for RSLogix

**Product(s):** MP3200iec, MP2300iec, MP2600iec, MP3300iec, MotionWorks IEC

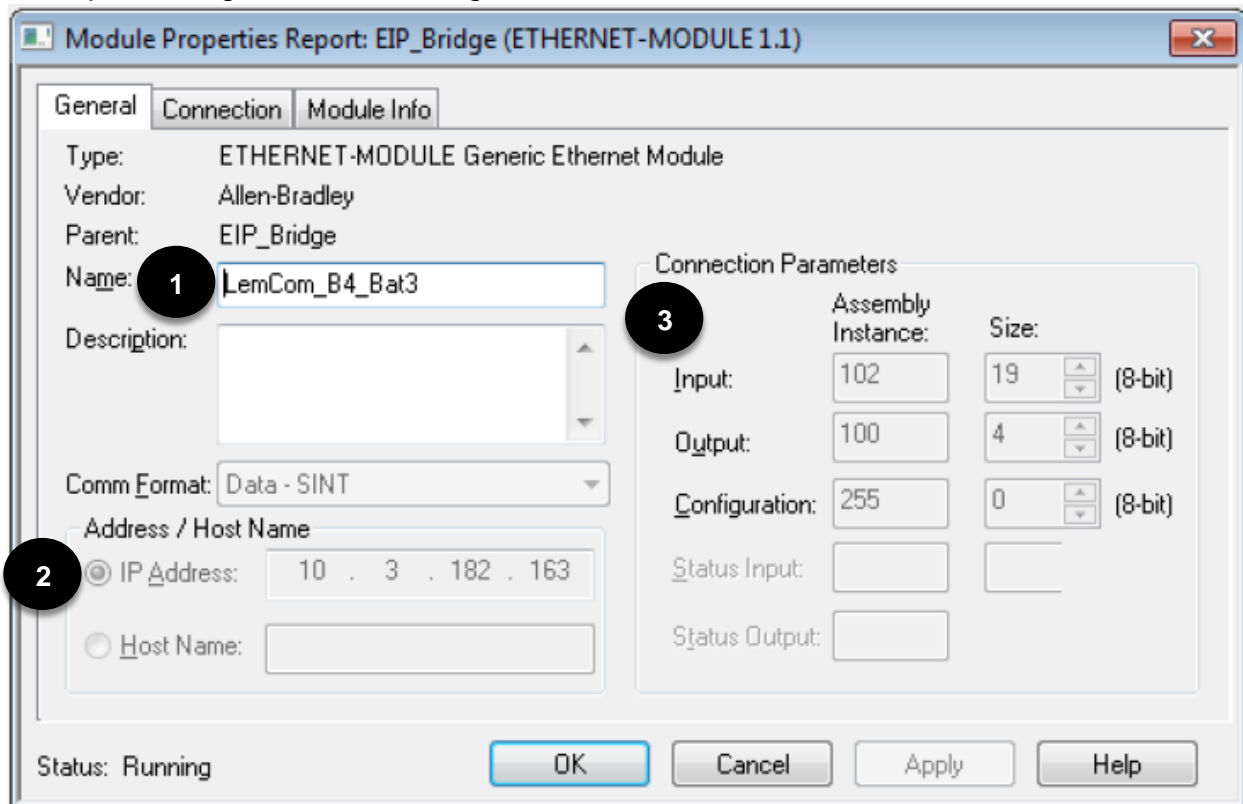
**Doc. No.** AN.MWIEC.04

When configuring an Ethernet device, many vendors will provide instructions on how to set up their device using a Generic Ethernet Module RSLogix. The data provided in these instructions will be the same data necessary to set up the device when using an MPiec series controller. Below are the steps necessary to pull the relevant data from the RSLogix instructions to set up the device in MotionWorks IEC.

The three pieces of data needed to configure an Ethernet adapter using MotionWorks IEC are:

1. Name of the device
2. IP Address
3. Input, Output, & Configuration assembly instances

Example RSLogix Ethernet configuration:



## Title: Configuring an Ethernet adapter in MotionWorksIEC using instructions for RSLogix

**Product(s):** MP3200iec, MP2300iec, MP2600iec, MP3300iec, MotionWorks IEC

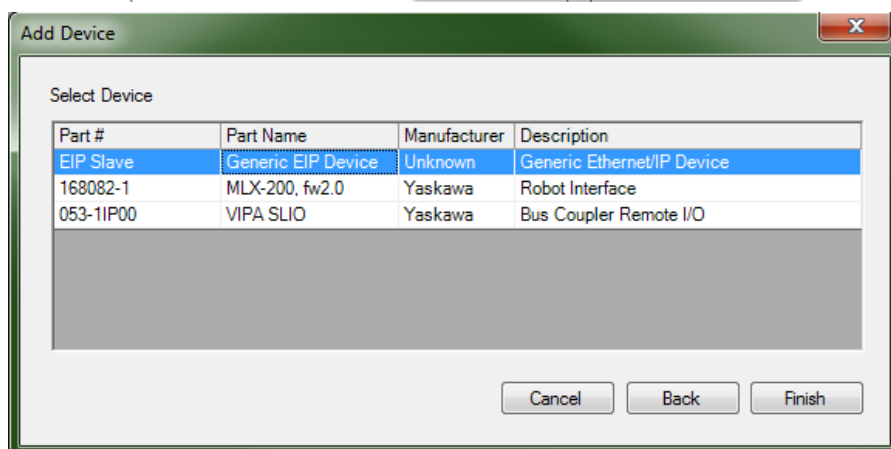
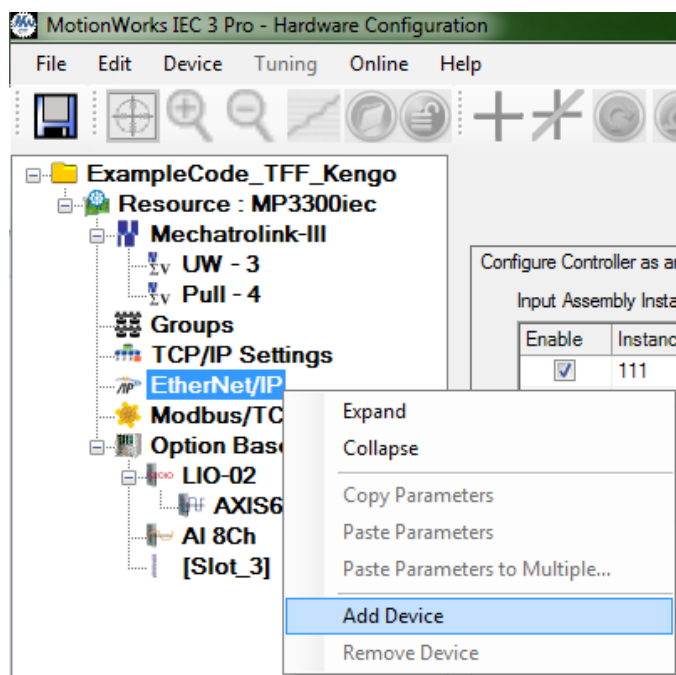
**Doc. No.** AN.MWIEC.04

After gathering these three pieces of data from the RSLogix configuration instructions you are ready to set up the device using MotionWorks IEC. To add the Ethernet adapter:

1. Launch Hardware Configuration



2. Right click on the EtherNet/IP tab and select “Add Device” and select “Generic EIP Device”



## Title: Configuring an Ethernet adapter in MotionWorksIEC using instructions for RSLogix

**Product(s):** MP3200iec, MP2300iec, MP2600iec, MP3300iec, MotionWorks IEC

**Doc. No.** AN.MWIEC.04

3. Enter the device name and IP Address in the adapter settings window. Also create an I/O Group and Status variable name.

4. Select the newly created adapter and add the appropriate Input, Output, and Configuration Assembly Instances. (For the connection field: use Multicast for the Input instance and for Output instance use Point to Point)

**LemCom\_B4\_Bat3** 3

I/O Assembly Instances

Type	Instance #	Size (bytes)	Update Interval (ms)	Ownership	Priority	Connection	Use Run Idle
Input	102	19	25	Exclusive	Scheduled	Multicast	False
Output	100	4	25	Exclusive	Scheduled	Point to Point	True

[Add Input/Output Assembly Instance](#)

Configuration Assembly Instance

Type	Instance #	Size (bytes)	Optional Data (hexadecimal)
Config	255	0	

[Add Configuration Assembly Instance](#)

## Title: Configuring an Ethernet adapter in MotionWorksIEC using instructions for RSLogix

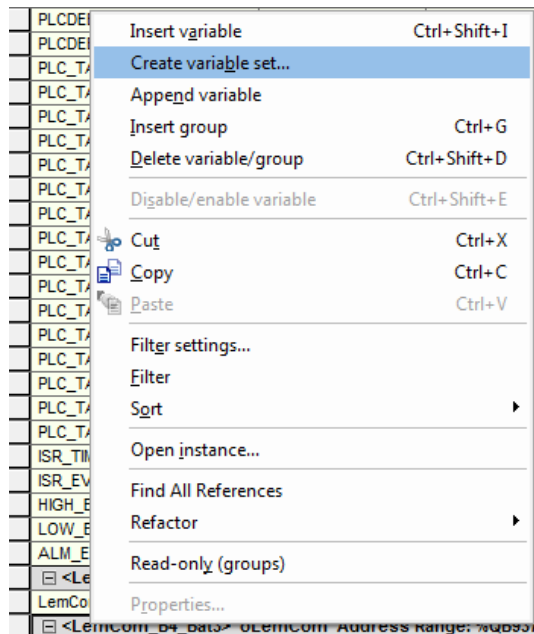
**Product(s):** MP3200iec, MP2300iec, MP2600iec, MP3300iec, MotionWorks IEC

**Doc. No.** AN.MWIEC.04

In RSLogix, the Ethernet variables are automatically created for you once you save the ethernet instance. In Motionworks creating your own Ethernet variables is required. Start by saving the hardware configuration and opening the global variables worksheet in MotionWorks IEC. You will see two new variable groups were created, one for the input assembly instance and one for the output instance (as well as a status variable). Note that the variable group names contain an address range. These addresses will be used when creating variables to access Ethernet data.

<LemCom_B4_Bat3> 'iLemCom' Address Range: %IB93792 - %IB93811 (* Do Not Modify Group Name or Status Variable. *)				
LemComStat	WORD	VAR_GLOB...	(* Do Not Modify. *) EtherNet/IP Adapter Status Variable	%MW93
<LemCom_B4_Bat3> 'oLemCom' Address Range: %QB93792 - %QB93795 (* Do Not Modify Group Name or Status Variable. *)				

The quickest way to create the necessary Ethernet variables is to right click on the group and select “Create variable set...”



## Title: Configuring an Ethernet adapter in MotionWorksIEC using instructions for RSLogix

**Product(s):** MP3200iec, MP2300iec, MP2600iec, MP3300iec, MotionWorks IEC

**Doc. No.** AN.MWIEC.04

When creating a variable set for Ethernet variables use the # to concatenate the number into the variable field. Select an appropriate Start and End number to create the correct number of variables (the range should match the assembly instance sizes). Change the Data type to a Byte. For the I/O address field, enter the starting address from the Address Range specified in the variable group followed by a # sign. Make sure to double check the preview window so that the addresses match the address range from the variable group before selecting OK. See examples below for creating variable sets for the Input/output instances.

Output instance:

Variables created:

OutputByte0	BYTE	VAR_GLOB...	%QB093792
OutputByte1	BYTE	VAR_GLOB...	%QB093793
OutputByte2	BYTE	VAR_GLOB...	%QB093794
OutputByte3	BYTE	VAR_GLOB...	%QB093795

## Title: Configuring an Ethernet adapter in MotionWorksIEC using instructions for RSLogix

**Product(s):** MP3200iec, MP2300iec, MP2600iec, MP3300iec, MotionWorks IEC

**Doc. No.** AN.MWIEC.04

Input instance:

**Create Variable Set**

Name: InputByte#  
(Use # to insert current number)

Start: 0 End: 18

Fill with leading '0' if necessary

I/O address: %IB93792#  
(Use # to insert current number)

Use start value from name

Start: 2 Increment: 1

Preview:  
InputByte0  
...  
InputByte18

Preview:  
%IB093792  
...  
%IB093810

Common

Usage: VAR\_GLOBAL  RETAIN

Data type: BYTE

Initial value:

Description:  
(Use # to insert current number)

PDD  OPC

Buttons: OK, Cancel, Help

Variables created:

LemCom_B4_Bat3> 'iLemCom' Address Range: %IB93792 - %IB93811 (* Do Not Modify Group Name or Status Variable. *)				
InputByte0	BYTE	VAR_GLOB...		%IB093792
InputByte1	BYTE	VAR_GLOB...		%IB093793
InputByte2	BYTE	VAR_GLOB...		%IB093794
InputByte3	BYTE	VAR_GLOB...		%IB093795
InputByte4	BYTE	VAR_GLOB...		%IB093796
InputByte5	BYTE	VAR_GLOB...		%IB093797
InputByte6	BYTE	VAR_GLOB...		%IB093798
InputByte7	BYTE	VAR_GLOB...		%IB093799
InputByte8	BYTE	VAR_GLOB...		%IB093800
InputByte9	BYTE	VAR_GLOB...		%IB093801
InputByte10	BYTE	VAR_GLOB...		%IB093802
InputByte11	BYTE	VAR_GLOB...		%IB093803
InputByte12	BYTE	VAR_GLOB...		%IB093804
InputByte13	BYTE	VAR_GLOB...		%IB093805
InputByte14	BYTE	VAR_GLOB...		%IB093806
InputByte15	BYTE	VAR_GLOB...		%IB093807
InputByte16	BYTE	VAR_GLOB...		%IB093808
InputByte17	BYTE	VAR_GLOB...		%IB093809
InputByte18	BYTE	VAR_GLOB...		%IB093810