

Standard Solutions

G3 Ethernet IP (240-325)
Commissioning (EDS file)

3/14/2016



G3 Ethernet IP/DLR Configuration (240-325)

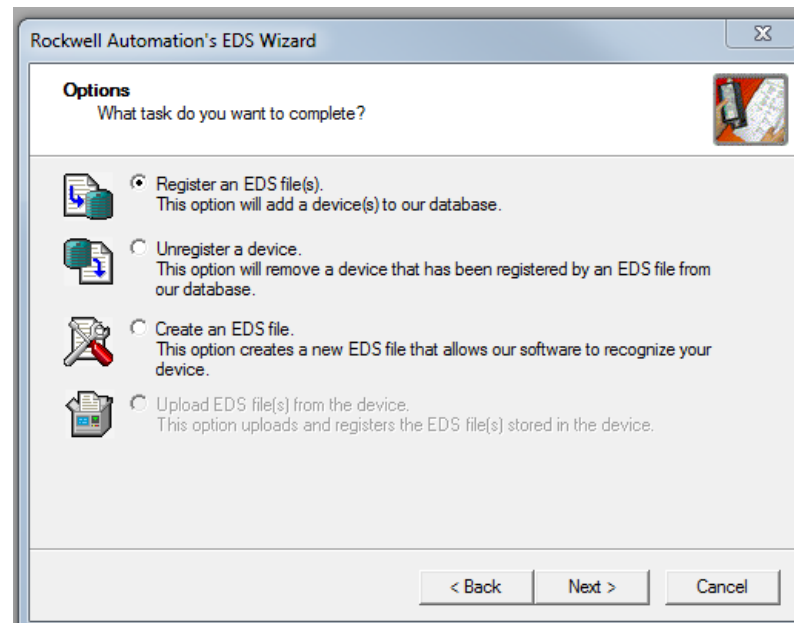
Applies to G3 Ethernet IP (240-325)

1. Instructions to configure a Rockwell PLC to communicate with a G3 Ethernet IP module using RS Logix 5000)
2. The Numatics G3 EDS file version 1.04 and 1.08 must be installed, EDS files are available for download at Asco.com
3. G3 Technical manuals and configuration files can be found at;
<http://www.asco.com/en-us/Pages/fieldbus-technical-document-search.aspx>

G3 Ethernet IP/DLR Configuration (240-325)

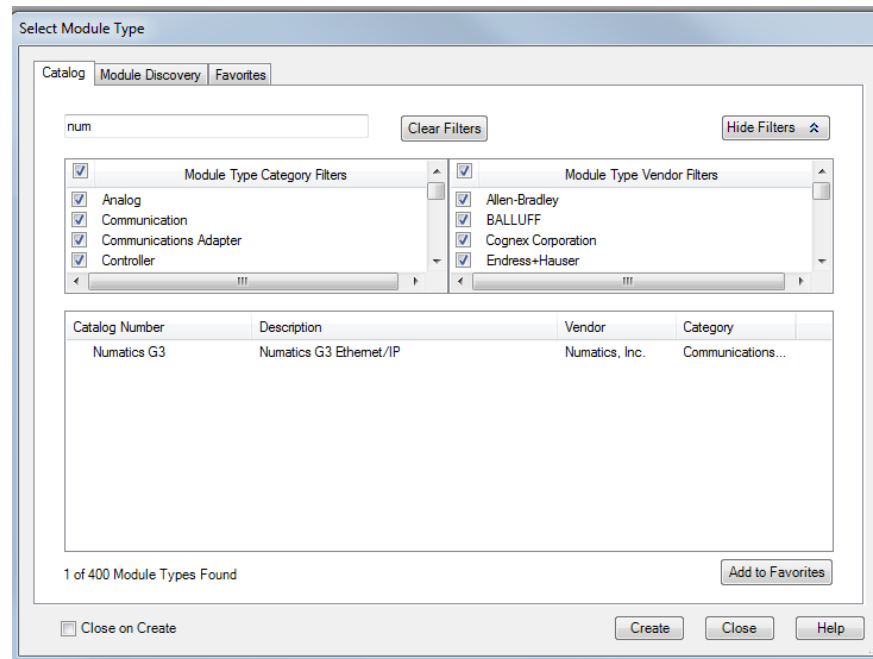
Install the Numatics “G3 Ethernet IP v1.08” Ethernet IP EDS file

If the Numatics EDS file has not been installed; open RS Logix 5000 and run the Hardware installation tool to register the Numatics G3 EDS file. Once the file is registered; proceed to the next step.



G3 Ethernet IP/DLR Configuration (240-325)

Select add new module and choose Numatics G3 Ethernet IP



G3 Ethernet IP Configuration (240-325)

Enter a Name, description and IP address for the G3 manifold. Then select “Change”

The screenshot shows a Windows-style dialog box titled "Module Properties: Local (Numatics G3 2.001)". It has several tabs: "General", "Connection", "Module Info", "Internet Protocol", "Port Configuration", and "Network". The "Network" tab is selected. The dialog is divided into two main sections. The left section contains fields for "Type:" (Numatics G3 Numatics G3 Ethernet/IP), "Vendor:" (Numatics, Inc.), "Parent:" (Local), "Name:" (Numatics_G3), and "Description:" (Numatics G3 IP Manifold). Below these is a "Module Definition" section with "Revision:" (2.001), "Electronic Keying:" (Compatible Module), and "Connections:" (Discrete Exclusive Owner). The right section is titled "Ethernet Address" and contains three radio buttons: "Private Network:" (with a value of 192.168.1.), "IP Address:" (selected, with a value of 192 . 168 . 3 . 100), and "Host Name:". At the bottom of the dialog, there is a "Status: Offline" label and four buttons: "OK", "Cancel", "Apply", and "Help". A red circle highlights the "Change ..." button located at the bottom center of the dialog.

Module Properties: Local (Numatics G3 2.001)

General Connection Module Info Internet Protocol Port Configuration Network

Type: Numatics G3 Numatics G3 Ethernet/IP
Vendor: Numatics, Inc.
Parent: Local
Name: Numatics_G3
Description: Numatics G3 IP Manifold

Ethernet Address
☐ Private Network: 192.168.1.
☒ IP Address: 192 . 168 . 3 . 100
☐ Host Name:

Module Definition
Revision: 2.001
Electronic Keying: Compatible Module
Connections: Discrete Exclusive Owner

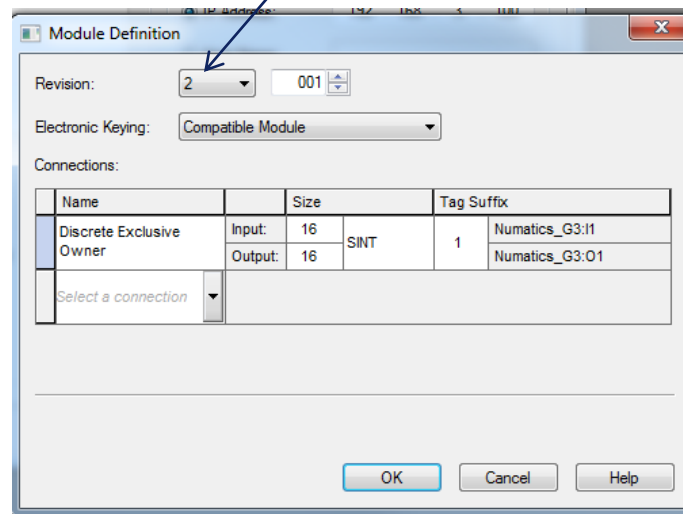
Change ...

Status: Offline OK Cancel Apply Help

G3 Ethernet IP Configuration (240-325)

Module Definition Select Module Type

Select Revision "2" for G3 240-325 Ethernet IP/DLR module



Module Definition

Revision: 2 001

Electronic Keying: Compatible Module

Connections:

Name	Size	Tag Suffix
Discrete Exclusive Owner	Input: 16 Output: 16	SINT 1 Numatics_G3:I1 Numatics_G3:O1
Select a connection		

OK Cancel Help

G3 Ethernet IP Configuration (240-325)

Module Definition

Configure Input and Output data table type and size

Module Definition

Revision: 2 001

Electronic Keying: Compatible Module

Connections:

Name	Input	Output	Size	Tag Suffix
Discrete Exclusive Owner	16	16	SINT	1
Select a connection				

OK Cancel Help

Set data type as SINT,INT or DINT

Set Input and Output sizes based on the specific manifold I/O sizes*

*Refer to the G3 Ethernet IP Technical Manual TDG3EDM1-3EN at asco.com for more information on I/O mapping and data size

G3 Ethernet IP/DLR Configuration (240-325)

Module Definition

Configure Input and Output data table type and size

Module Definition*

Revision: 1 001

Electronic Keying: Compatible Module

Connections:

Name	Input	Output	Size
Discrete Exclusive Owner	16	16	SINT

OK Cancel Help

Set data type as SINT, INT or DINT

Set Input and Output sizes based on the specific manifold I/O sizes*

*Refer to the G3 Ethernet IP Technical Manual TDG3EPTM1-6EN at asco.com for more information on I/O mapping and data size

G3 Ethernet IP Configuration (240-325)

Module Definition

Configure Diagnostic data table type and size

Select "Status Only" To map the G3 diagnostic data into the PLC status table

Module Definition*

Revision: 2 001

Electronic Keying: Compatible Module

Connections:

Name	Input:	Output:	Size	Tag Suffix
Discrete Exclusive Owner	16	16	SINT	1
				Numatics_G3:I1
				Numatics_G3:O1
Status Only	16	0	SINT	2
				Numatics_G3:I2
				<none>

OK Cancel Help

Set data type as SINT,INT or DINT

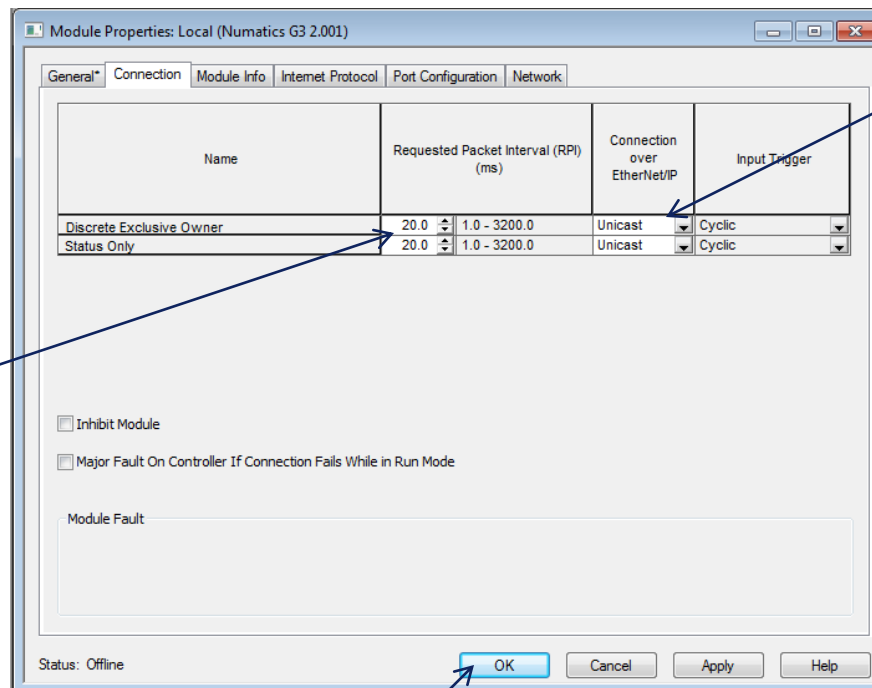
Set Status data sizes based on the specific manifold diagnostic data size*

Select OK to save configuration

*Refer to the G3 Ethernet IP Technical Manual TDG3EPTM1-6EN at asco.com for more information on I/O mapping and data size

G3 Ethernet IP Configuration (240-325)

Module Properties Connection Tab
Configure Diagnostic data table type and size



RPI value selects the rate at which the G3 Ethernet IP/DLR module data is updated (default =20ms)

Unicast vs Multicast communication (Unicast is the preferred mode)

Select OK to complete the G3 Ethernet Module configuration settings