Standard Solutions

G3 Ethernet IP Commissioning 2/26/2016





Applies to 580 and G3 EtherNet/IP

AST

- 1. Instructions to setup communication with a Rockwell PLC using RS Logix 5000
- 2. Start by opening RS Logix 5000 and creating a new module
- 3. Select the "Generic Ethernet Module"

talog Module Discovery Favor	ites	Clear	Filters			Hide Filte	rs 🛠
Module Typ Analog Communication Communications Adapter Controller	be Category Filters	•	 <	Allen-Bradley BALLUFF Cognex Corp Endress+Hau	Module Type Vend , oration user !!!	or Filters	•
Catalog Number ETHERNET-BRIDGE ETHERNET-MODULE	Description Generic EtherNet/IP CIP Generic Ethernet Module	Bridge			Vendor Allen-Bradley Allen-Bradley	Category Communication Communication	
2 of 400 Module Types Found						Add to Fa	vorites



Enter the required parameter data including; Name, Connection Parameters, IP Address and Comm. Format

Type: Vendor: Parent:	ETHERNET-MODULE Generic Ethernet Module Allen-Bradley LocalENB							
Name:	Numatics_G3_Ethernet_IP	- Connection Para	Assembly Instance:	Size:				
e compositi t		Input:	100	10	4	(32-bit)		
		Output:	150	10	-	(32-bit)		
Comm Formal	: Data - DINT	Configuration:	1	0		(8,64)		
Address / H	lost Name	coniguration	<u> </u>			(0.04)		
IP Addre	ess: 192 . 168 . 1 . 120	Status Input			_			
🔿 Host Na	ime:] Status Gulput:						
🗸 Open Mod	ule Properties	OK) [fam	cel		Halo		





Generic Ethernet Module Parameters

RS Logix 5000 uses the connection parameter to configure communication to the G3. The comm. format parameters are used to create the G3 data table within the Rockwell PLC controller tag data.

Comm. Format

The "Comm Format" determines the format of the data exchanged with the G3 EtherNet/IPTM node.

Description	Data	Description
	Data – DINT	Double Integer 32 Bits
Comm. Format	Data – INT	Integer 16 Bits
	Data – SINT	Single Integer 8 Bit

Assembly Instance Values

The following Assembly Instance parameters must used with the G3 EtherNet/IPTM module.

Description	Assembly Instance Values	Size (depends on data format)
Input	100 (Decimal)	Total input value from the physical manifold configuration. This is a minimum value. Larger values may be specified for future expansion purposes.
Output	150 (Decimal)	Total output value from the physical manifold configuration. This is a minimum value. Larger values may be specified for future expansion purposes.
Configuration	1 (Decimal)	0





General Tab Enter the required parameter data including; Name, Connection Parameters, IP Address and Comm. Format

Type: Vendor: Parent:	ETHERNET-MODULE Generic Eth Allen-Bradley LocalENB	emet Module						
Name:	Numatics_G3_Ethernet_IP	Connection Par	ameters Assembly Instance:	Size:				
Description.	-	Input:	100	10	A Y	(32-bit)	\leftarrow	Enter number of Inputs data blocks
	-	Output:	150	10	-	(32-bit)	\leftarrow	Set the Input instance to 150
Comm Formal	Data - DINT	Configuration	1	0		(8,64)	,	
Address / H	lost Name	Consiguration	<u> </u>			(0.00)		Set the Configuration instance to 0
IP Addre	ess: 192 . 168 . 1 . 120	Status Input						Set the Configuration size to 0
🖱 Host Na	me:	Status Gutput						
🗸 Open Mod	ule Properties	ОК	Can	cel		Help		

Assign a name to the manifold configuration

Enter the G3 Ethernet IP Address





Connection Tab Enter the required parameter data including; RPI Value, Unicast

	Module Properties Report: Local (ETHERNET-MODULE 1.1)
	General Connection Module Info Requested Packet Interval (RPI): 20.0 ms (1.0 - 3200.0 ms) Inhibit Module Major Fault On Controller If Connection Fails While in Run Mode
Select Unicast	Use Unicast Connection over EtherNet/IP
	Module Fault
	Status: Offline OK Cancel Apply Help



