EtherNet/IP Configuration for MGate 5105-MB-EIP and CompactLogix L32E

EtherNet/IP Configuration for a Moxa MGate 5105-MB-EIP and an Allen-Bradley CompactLogix L32E

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About Moxa

Moxa manufactures one of the world's leading brands of device networking solutions. Products include serial boards, USB-to-serial hubs, media converters, device servers, embedded computers, Ethernet I/O servers, terminal servers, Modbus gateways, industrial switches, and Ethernet-to-fiber converters. Our products are key components of many networking applications, including industrial automation, manufacturing, POS, and medical treatment facilities.

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1. Introduction

This application note will explain how to configure a Moxa MGate gateway as an EtherNet/IP Adapter and an Allen-Bradley CompactLogix L32E as an EtherNet/IP Scanner. On the Modbus RTU side, this note will also explain how to connect a Moxa ioLogik R2110 as a Modbus RTU slave with 12 digital inputs and 8 digital outputs.

2. Applicable products

Product Line	Model Name
MGate 5000 series	MGate 5105-MB-EIP, MGate 5105-MB-EIP-T

3. System requirements

Description	Model / File Name	Version
Allen-Bradley 1769-L32E controller	1769-L32E CompactLogix5332E	18.12
Rockwell single control platform	RSLogix 5000	18.02.00
Moxa RS-485 remote I/O with 12 digital	ioLogik R2110	1.2
inputs and 8 digital outputs		
Moxa EtherNet/IP-to-Modbus gateway	MGate 5105-MB-EIP	1.1
Software utility to configure Moxa	MGate Manager	1.8
devices		

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4. System overview

This application note will use the Moxa MGate 5105-MB-EIP for illustration purposes. The system architecture is shown below.



5. MGate 5105-MB-EIP configuration

5.1. Device configuration with MGate Manager

5.1.1. Start MGate Manager on your host computer and click the **Search** button to locate the Moxa MGate 5105-MB-EIP gateway on your network.

MGate	Manager			
No.	Name	Model		MAC Address
- Dev	vice Identification		Device Fund	tion
	Search		Confi	guration
	Locate		Load	Default
		'		

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5.1.2. Select the MGate gateway and click the **Configuration** button to configure it.

MGate 5105_153	MGate 5105-MB-EIP	00:90:E8:00:01:04	192.168.33.10	Locked	Ver.1.0 Build 13061017
evice Identification	Device Func				1
Search	Config	guration	Monitor	ProCOM Mappir	ig Import

If MGate Manager requests a password, **moxa** is the default password.

Password	×
MGate 5105-MB-EIP 192.168.33.10	
Password ••••	
OK Cancel	

5.1.3. Select the Network tab to configure the IP address and netmask of the MGate 5105-MB-EIP gateway. In this example, the IP address is 192.168.33.10 and the default netmask is 255.255.255.0.

Basic	Network	Serial	Pro	tocol	Sy	/stem	į.			
Ethern	et Settings									
IP configuration Static										
IP	address			192		168		33	10	
Ne	tmask			255		255		255	0	
Ga	teway			0		0		0	0	
DNS S	erver —								 	
DN	IS server 1			0		0		0	0	
DN	IS server 2			0		0	•	0	0	

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5.1.4. Select the **Serial** tab to configure the serial parameters to be the same as the parameters on the Modbus device, which is the ioLogik R2110 in this example.

Basi	c Network	Serial	Protocol	System	n
⊢ P	ort 1				
	Baud rate		115200	•	
	Parity		None	•	
	Data bit		8	7	
	Stop bit		1	•	
	Flow control		None	•	
	FIFO		Enable	•	
	Interface		RS232	•	
	RTS on delay	,	0		ms
	RTS off delay	/	0		ms

5.1.5. Select the **Protocol** tab to configure the protocol conversion settings. The first sub-tab is **Protocol Conversion** and shows which protocols are going to be converted. In this demo, select **EtherNet/IP <-> Modbus RTU/ASCII** from the dropdown menu.

Basic Network Serial Protocol System
Protocol Conversion EtherNet/IP Modbus RTU/ASCII Modbus TCP I/O Data Manping
Protocol selection EtherNet/IP <-> Modbus RTU/ASCII

- 5.1.6. Select the **EtherNet/IP** tab to configure EtherNet/IP settings.
- 5.1.7. Since we will use the Allen-Bradley PLC as the EtherNet/IP Scanner, select Adapter for the MGate 5105-MB-EIP's Mode selection.
 - 5.1.7.1. Then select **Automatic** for **I/O data size configuration** so that the MGate 5105-MB-EIP will automatically map the I/O data.

Ba	asic Network Serial Protocol System
P	Protocol Conversion EtherNet/IP Modbus RTU/ASCII Modbus TCP I/O Data Mapping
	Mode selection
	Adapter Settings
	I/O data size configuration Automatic 💌

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- 5.1.7.2. Select the **Modbus RTU/ASCII** tab to configure Modbus RTU/ASCII settings and Modbus commands. Refer to the ioLogik R2110 user's manual to understand how to read the DI status information from the ioLogik R2110 and write DO statuses to the ioLogik R2110.
- 5.1.8. You will need to configure two Modbus commands. Start by clicking the **Add** button to create a new Modbus command.

Basic Netw	sic Network Serial Protocol System								
Protocol Con	version Eth	erNet/IP M	lodbus R1	TU/ASC	II Modbus	TCP I/O D	ata Mapping	1	
Mode sele	ction	RTU Mast	er 💌						
Master Se	Master Settings								
Initial de	lay	0			ms	Max. retry		3	
Respons	Response timeout 1000				ms Inter-frame delay 0			ms	
Inter-cha	aracter timeo	ut 0			ms				
Index	Name	Slave ID	Fu		Address/Qua	antity	Trigger	Poll Int	Endian S
	Add Modify Remove								·

5.1.8.1. Name the new command **Command1** and configure it to read the DI status from the ioLogik R2110. Then click **OK** to add the command.

Modbus Command		×
Name	Command1	
Slave ID	2	
Function	02 - Read discrete inputs	•
Trigger	Cyclic	
Poll interval	1000	ms
Endian swap	None	
Read starting address	0	
Read quantity	8	
Write starting address	0	
Write quantity	0	
ОК	Cancel	Help

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5.1.8.2. Next, configure **Command2** to write the DO status to ioLogik R2110, and then click **OK** to add the command.

Modbus Command		×
Name	Command2	
Slave ID	2	
Function	15 - Write multiple coils	•
Trigger	Cyclic	
Poll interval	1000	ms
Endian swap	None	
Read starting address	0	
Read quantity	10	
Write starting address	0	
Write quantity	8	
ОК	Cancel	Help

5.1.8.3. Return to the **Modbus RTU/ASCII** tab to view a summary of the commands we just added.

Bas	ic Netv	vork Serial	Protocol	System				
Pro	Protocol Conversion EtherNet/IP Modbus RTU/ASCII Modbus TCP I/O Data Mapping							
	Mode selection RTU Master							
Г	Master Se	ettings						
	Initial de	elay	0		ms Max. retry		3	
	Respons	se timeout	10	000	ms Inter-frame	e delay	0	ms
	Inter-ch	aracter timeo	ut 0		ms			
	Inter-ch Index	aracter timeo	ut 0 Slave ID	Fu	ms Address/Quantity	Trigger	Poll Int	Endian S
	Inter-ch Index	Name Command 1	ut 0 Slave ID 2	Fu	ms Address/Quantity Read address 0, Quantity 8	Trigger Cyclic	Poll Int 1000	Endian S None
	Inter-ch Index 1 2	Name Command 1 Command 2	ut 0 Slave ID 2 2	Fu 2 15	ms Address/Quantity Read address 0, Quantity 8 Write address 0, Quantity 8	Trigger Cyclic Cyclic	Poll Int 1000 1000	Endian S None None
	Inter-ch Index 1 2	aracter timeo Name Command1 Command2	ut 0 Slave ID 2 2	Fu 2 15	ms Address/Quantity Read address 0, Quantity 8 Write address 0, Quantity 8	Trigger Cyclic Cyclic	Poll Int 1000 1000	Endian S None None
	Inter-ch Index 1 2	aracter timeo Name Command1 Command2	ut 0 Slave ID 2 2	Fu 2 15	ms Address/Quantity Read address 0, Quantity 8 Write address 0, Quantity 8	Trigger Cyclic Cyclic	Poll Int 1000 1000	Endian S None None
	Inter-ch Index 1 2	aracter timeou Name Command1 Command2	ut 0 Slave ID 2 2 Add	Fu 2 15	ms Address/Quantity Read address 0, Quantity 8 Write address 0, Quantity 8 Modify	Trigger Cyclic Cyclic Remove	Poll Int 1000 1000	Endian S None None

5.1.9. Then, click the **OK** button to save all the configurations we just added and the MGate 5105-MB-EIP will restart automatically for the new settings to take effect.



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6. PLC configuration

6.1. Install the EDS file

6.1.1. Open the EDS hardware Installation Tool to install the EDS files for the MGate 5105-MB-EIP. Click **Add** to choose the folder where the EDS files will be stored.

tockwell Automation - Hardware Installation Tool		
This tool allows yo information curren	u to change the hardware description tly installed on your computer.	
Add	Launch the EDS Wizard and add selected hardware description files and associated components only. Launch the EDS Wizard and remove selected hardware description files and associated components only.	
Remove <u>A</u> ll	Remove all previously installed hardware description files and associated components from your computer.	
	Exit	

6.1.2. You will need to install two separate EDS files—one for EtherNet/IP Scanner and another for EtherNet/IP Adapter—in a new directory. Create a new directory by selecting **Register a directory of EDS files** and clicking the **Browse...** button to select the appropriate folder to store the files.

Rockwell Automation's EDS Wizard	×
Registration Electronic Data Sheet file(s) will be added to your system for use in Rockwell Automation applications.	
C Register a single file	
Register a directory of EDS files	
In folder:	
C:\Users\ray_chen\Desktop\5000 Browse	
• If there is an icon file (ico) with the same name as the file(s) you are registering then this image will be associated with the device. To perform an installation test on the file(s), clic	* Next
Next > C	ancel

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6.1.3. Click **Next >** to view the EDS files that are going to be installed.

Rockwell Automation's EDS Wizard	×
EDS File Installation Test Results This test evaluates each EDS file for errors in the EDS file. This test does not guarantee EDS file validity.	
Installation Test Results C:\Users\ray_chen\Desktop\5000\EtherNetIP_Adapter.eds C:\Users\ray_chen\Desktop\5000\EtherNetIP_Scanner.eds	
View file	
< Back Next >	Cancel

6.1.4. Click **Next >** to view the devices on which the EDS files will be installed.

Rockwell Automation	s EDS Wizard	×
Change Graphic In You can change	nage the graphic image that is associated with a device.	
F	Product Types	
Change icon	Communications Adapter EtherNet/IP Adapter EtherNet/IP Scanner	
	< Back Next >	Cancel

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6.1.5. Click **Next >** to see a summary of the installation.

Rockwell Automation's EDS Wizard	×
Final Task Summary This is a review of the task you want to complete.	
You would like to register the following 2 devices EtherNet/IP Adapter EtherNet/IP Scanner	
< Back Next >	Cancel

6.1.6. Click **Next >** and then **Finish** to complete the installation process.

Rockwell Automation's EDS Wizard		
	You have successfully completed the EDS Wizard.	
	[

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6.2. Configure the EtherNet/IP network

6.2.1. Start RSLinx Classic and create a new project by selecting **File** → **Open Project...**



6.2.2. Click the **New...** button to create a new DDE project for this demo.

Open DDE Project	
Currently Defined Projects	OK
Deraon	Cancel
	<u>D</u> elete
	<u>N</u> ew
	<u>H</u> elp

Enter Demo for the Project Name.

New DDE Project		? ×
		OK
New Project Name:	Demo	Cancel
		Help

6.2.3. Select **Communications** → **Configure Drivers...** to configure the EtherNet/IP network.



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6.2.4. There may be a default driver already installed, as shown in the screenshot below. You may configure a new driver or check if the default settings are suitable for the network topology of the application. Select the appropriate driver and click the **Configure...** button.

Configure Drivers		? ×
Available Driver Types:	Add New	<u>C</u> lose <u>H</u> elp
Configured Drivers:		_
Name and Description	Status	
AB_ETHIP-1 A-B Ethemet RUNNING	Running	Configure
		Starjup
		Start
		Stop
		Delete

6.2.5. Choose the proper Ethernet interface then click the **OK** button.

Configure driver: AB_ETHIP-1	? ×
EtherNet/IP Settings	
Browse Local Subnet C Browse Remote Subnet	
Description IP Ac	ddress
Broadcom NetXtreme 57xx Gigabit Controller 192.	168.33.25
OK Cancel Apply	Help

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6.2.6. Return to the main window and select **Communications** → **RSWho** to detect all the EtherNet/IP devices on the network.



6.2.7. In the left column tree menu, expand the **AB_ETHIP-1**, **Ethernet** driver to confirm that all the devices were detected. In this example, you should see the Allen-Bradley PLC and Moxa MGate 5105-MB-EIP.



6.3. Create RSLogix 5000 project

6.3.1. Start RSLogix 5000 and create a new project by selecting **File** \rightarrow **New**.

🎊 R	SLogix 500	0 - test [17	69-L32	E 18.12]
File	Edit View	Search Lo	ogic Co	mmunicati
ê	<u>N</u> ew	Ctr	I+N	00
Ê	<u>O</u> pen	Ctr	I+0 =	
	Close			
	<u>S</u> ave	Ctr	I+S	
	Save <u>A</u> s			

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6.3.2. You must choose the proper controller type and controller firmware version. In this example, we are using the 1769-L32E CompactLogix5332E
Controller and Revision 18. In addition, you should also assign a name for this project. For this example, enter Demo as the Project Name.

New Controller			×
Vendor:	Allen-Bradley		
<u>T</u> ype:	1769-L32E CompactLogix5332E Controller	-	OK
Re <u>v</u> ision:	18 🔻		Cancel
	<u>R</u> edundancy Enabled		Help
Na <u>m</u> e:	Demo		
Descri <u>p</u> tion:		<u> </u>	
		Y	
<u>C</u> hassis Type:	<none></none>	Y	
Sl <u>o</u> t:	0 = Safety Partner Slot: <none></none>		
Cr <u>e</u> ate In:	C:\RSLogix 5000\Projects		<u>B</u> rowse
Security Authority:	No Protection	~	
	Lise only the selected Security Authority for Authentication and Authorization		
	Lise only the selected Security Authority for Authentication and Authorization		

6.4. Create an Ethernet Module for the MGate 5105-MB-EIP

6.4.1. When the new project opens, find the **Controller Organizer** window.



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6.4.2. In the **Controller Organizer** tree menu, expand the **I/O configuration** field and right-click on **Ethernet**. Select **New Module** from the pop-up menu to add an Ethernet module to the MGate 5105-MB-EIP.



6.4.3. A new dialog box will appear for you to select modules to add. Expand the **Communications** category

Select Module				×
Module	Description			Vendor
⊕- Drives ⊕- HWI ⊕- Other ⊕- Specialty				
By Category	By Vendor Fa	vorites	<u></u> ind	Add Favorite
		0K.	Cancel	Help

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6.4.4. Then select ETHERNET-MODULE and click the OK button.

🛛 Select I	Module		×
Module		Description	Vendo
	Checker 4G1	Checker 4G Series	Cor
	Checker 4G7	Checker 4G Series	
	DataMan 200 Series	ID Reader	Cor
	DataMan 500 Series	ID Reader	Cor
	DataMan 8000 Series	ID Reader	Cor
	Drivelogix 5730 Ethernet Port	10/100 Mbps Ethernet Port on Drivel onix 5730	Alle
	F1 Plus	Electronic Overload Relay Communications Interface	Alle
	ETHERNET-MODULE	Generic Ethernet Module	Alle
	ILX34-AENWG	1734 Wireless Ethernet Adapter, Twisted-Pair Media	Pro
	In-Sight 1700 Series	Vision System	Coç
	In-Sight 3400 Series	Vision System	Cor 💌
			▶
		<u> </u>	vorite
By Ca	tegory By Vendor	Favorites	
		OK Cancel Help	

6.4.5. Enter the module's information, including the Name, Comm Format, IP address, and Connection Parameters.

New Module						×
Type: Vendor: Parent: Na <u>m</u> e: Descri <u>p</u> tion:	ETHERNET-MODULE Generic Etherne Allen-Bradley LocalENB MGate_5105	t Module - Connection Par <u>I</u> nput:	ameters Assembly Instance: 110	Size:	- (8-bit)	
·		O <u>u</u> tput:	100	1	- (8-bit)	
Comm <u>F</u> ormat ⊏ Address / H	: Data - SINT	Configuration:	1	0		
	ess: 192 . 168 . 33 . 10	<u>S</u> tatus Input:				
C <u>H</u> ost Na	ame:	Status Output				
🔽 Open Mod	ule Properties	OK	Can		Help	

- 6.4.5.1. For this example, enter **MGate_5105** for the Name, and **192.168.33.10** for the IP address.
- 6.4.5.2. Since we are simply testing the ioLogic R2110, configure the Comm Format as Data – SINT, and the Assembly Instance to only read and write 8 bits. The Assembly Instance Input of 110 and Assembly Instance Output of 100 are fixed by the MGate 5105-MB-EIP.

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6.4.5.3. After clicking the **OK** button, you can configure the **Requested Packet Interval (RPI)**, or keep the default settings on this page.

Module Properties: LocalENB (ETHERNET-MODULE 1.1)
General Connection Module Info
Requested Packet Interval (RPI): 10.0 + ms (1.0 - 3200.0 ms) ☐ Inhibit Module
Major Fault On Controller If Connection Fails While in Run Mode
☑ Use Unicast <u>C</u> onnection over EtherNet/IP
Module Fault
Status: Offline OK Cancel Apply Help

- 6.4.5.4. Lastly, click the **OK** button to finish the configuration.
- 6.4.6. Select the **Controller Tags** under Controller Demo to view all the tags you created. Verifying whether all the necessary tags have been created.

RSLogix 5000 - Demo [1769-L32E 18.11]* - [Control	r Tags - Demo(controller)] <u>Wi</u> ndow Help	×
	🗾 📕 🍓 强 🕼 📝 😰 🔍 Select a La	nguage 🔽 🕺
Offline RUN	Path: <none></none>	
No Edits BAT	H H	
Controller Organizer	Scope: 🛱 Demo 💌 Show: All Tags	💌 🔽 Enter Name Filter 💌
Controller Tags	Name === 🛆 Value 🔸 Force Mask	Properties 📮
Pa		
Power-Up Handler		} General
- Tasks		Name MGate 5105:
		Usage
	-MGate 5105:I.Data[0].0 0	Type Base
	-MGate 5105:I.Data[0].1 0	Alias For
Ungrouped Axes	-MGate 5105/LData[0] 2 0	Base Tag
- Add-On Instructions	MG do 51051 D do(0)2	- Data Type SINT
- 🔄 Data Types	Mode_StationUpito	- Scope I Demo
User-Defined	Middle_01001.04400.4	Style Desimal
🕀 🙀 Strings	MGate_51051.Data[0].5	Constant No
Add-On-Defined	MGate_5105:I.Data[0].6 0	Required
	MGate_5105:I.Data[0].7 0	Visible
	MGate_5105:0 {} {	} 🗄 Description 👻
		3
Backplane, Compacti ogix System	∰-MGate_5105:0.Data[0] 0	-
	Monitor Tags / Edit Tags /	

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6.5. Download Configuration to PLC

6.5.1. Select **File** \rightarrow **Save** to save this project.

8	RSLo	gix 50	000 - 0)emo [1	769-L3	2E 18.11] -
Ø	File	Edit	View	Search	Logic	Communica
裡	Ē	New.			Ctrl+N	
Ľ	2	<u>O</u> pen			Ctrl+O	
Off		<u>C</u> lose				
No						_
No	H	<u>S</u> ave			Ctrl+S	
		Save	<u>A</u> s			

6.5.2. Select **Communications** \rightarrow **Who Active** to find the target PLC.

👫 RSLogix 5000 - Demo [1769-] 3	OF 18 11] - [Controller Tag
🎽 File Edit View Search Logi	Communications Tools Wir
	Who Active
	Select Recent Path
Offline	Co Online
No Forces	<u>G</u> o Online
No Edits A	Upload
	Download

6.5.3. In the Who Active tree menu, expand the EtherNet/IP network field and select **Backplane, CompactLogix Processor**. On the right-hand side of the tree menu, click the **Download** button to download the above settings onto the PLC.

👸 Who Active	<u>_ ×</u>
Autobrowse Refresh	
Workstation, RAY-CHEN-PC	Go Online
⊡	Upload
🚍 🔎 192. 168. 32. 110, 1769-L32E Ethernet Port, 1769-L32E Etherne	Download
⊡ ∰ Backplane, CompactLogix System ⊡ ∰ 00, CompactLogix Processor, test	Update Firmware
	Close
	Help
192.168.33.10, EtherNet/IP Adapter, EtherNet/IP Adapter	
▼ ▲	
Path: AB_ETHIP-1\192.168.32.110\Backplane\0	Set Project Path
Path in Project: <none></none>	Clear Project Path

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6.5.4. A warning message will pop up to remind you to that you are downloading an offline project onto the PLC. Click the **Download** button to proceed.

Download	1			×
Â	Do	wnload offline proje	ect 'Demo' to the controller.	
_	Co	nnected Controller:		
		Name:	test	
		Туре:	1769-L32E/A CompactLogix5332E Controller	
		Path:	AB_ETHIP-1\192.168.32.110\Backplane\0	
		Serial Number:	602D5557	
		Security:	No Protection	
	1	The controller is in Remote Program p	n Remote Run mode. The mode will be changed to prior to download.	
	⚠	DANGER: Unexpe	ected hazardous motion of machinery may occur.	
		Some devices main not loaded to the o	intain independent configuration settings that are device during the download of the controller.	
		Verify these devic have been proper	es (drives, network devices, 3rd party products) ly loaded before placing the controller into run mode.	
		Failure to load pro unexpected equip	per configuration could result in misaligned data and ment operation.	
		Download	Cancel Help	

6.5.5. When downloading completes, you will be prompted to change the PLC to **Remote Run** mode. Click **Yes** to continue.

RSLogix 5000		
	Done downloading. Change controller mode back to Remote Run?	
	Yes No	

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6.5.6. Return to the main window of the RSLogix 5000. The indicators should all be green.

BSLogix 5000 - Demo [1769-L32E 18.12] - [Controller Tags - Demo(controller)] Pile Edit View Search Logic Communications Tools Window Help				
Rem Run Run Mode No Forces Controller OK Battery DK Here Harl 1/0 OK Image: Add-On K Safety K Alarms K Bit K TimerOc				
Controller Organizer - 4 X	Scope: 🔁 Demo 💌 Shgw: All Tags 💌	Y. Enter Name Filter		
Controller Jemo Controller Tags Controller Fault Handler Power-Up Handler	Name □∃ △ Value € Force Mask ▲ ⊞-MGate_5105:C { } { } { } { } }	Properties 4		
- ← Tasks → ← ↓ MainTask ⊕ - ↓ MainProgram	HGate_5105:LData {} {}	Name MGate_5105: Usage Type Base		
- G Motion Groups	-MGate_5105:I.Data[0].1 0 -MGate_5105:I.Data[0].2 0	Alias For Base Tag Data Type SINT		
- 🔄 Data Types - Cing User-Defined - Cing Strings	Mutate_5105:I.Data[0].3 0 MGate_5105:I.Data[0].4 0 MGate_5105:I.Data[0].5 0	Scope Demo External Access Read/Write Style Decimal		
Add-On-Defined		Constant No Required Visible		
- Trends - 🔄 I/O Configuration 	Image: High and the state of the	E Description		
Download complete with no errors or warnings.				

7. Communication Test

7.1. Monitor / Modify Test

7.1.1. Modify the DO data and check if the LED indicators on the ioLogik R2110 have changed.



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7.1.2. Monitor the DI data for changes when you send an input signal from the ioLogik R2110.

