

Allen-Bradley Micro800 Series Driver (v1.01+)

Information Sheet for Crimson v3.0+

Compatible Devices

• Allen-Bradley Micro800 Series PLCs

Verified Device

• Micro820 2080-LC20-20QBB

Overview

The Micro800 Series driver allows access to data tags in Allen-Bradley Micro800 series PLCs. It also provides a method to import tag definitions from Connected Components Workbench into Crimson 3.0+.

Serial Configuration

In Rockwell Automation's Connected Components Workbench (CCW) software open the Project Organizer window via the View Menu then double click on the controller at the top level of the tree in the Project Organizer window to open the controller tab.



In the Controller tree within the controller tab, click on Serial Port.



Set the Driver to CIP Serial and note/adjust the Baud Rate, Parity and Station Address in that they are suitable for the application.

In Crimson's Communications category select the desired serial port in the Communications tree and click on the Pick... button.

Navigation Pane X	Communications - RS-232 Comms Port
🔊 New - 🗙	Driver Selection
Communications	
🖻 🐢 Network	Driver: No Driver Selected Pick
🏹 Protocol 1	
🍹 Protocol 2	Port Commands
🍯 Protocol 3	Class Bart Sattings
§ Protocol 4	clear Fort Settings
	Add Additional Device
RS-232 Program Port	
=0 RS-485 Comms Port A	
C RS-232 Comms Port	
=() RS-485 Comms Port B	
Driver Picker fo	or Serial Port
We Keyboard	
Anutacture	er <u>D</u> river
System>	No Driver Selected
ABB	DF1 Master Version 1.02
Amazon MOTT Adam	Micro800 Master Version 1.02
Azure MOTT Allen-Bradi	lley Native Tag Addressing Version 1.01
Sparkplug MOTT Alpha Gear	r Ultra 3000 Version 1.00
Cumulocity REST Alstom	
Services Applied Mc	otion
OPC UA Server Automation	n Direct - Koyo
Time Manager B&R	
FTP Server	
Sync Manager	
🚔 Mail Manager OK	Cancel Total of 172 Drivers Available.
🚱 SQL Sync	
🖃 🎆 Comms Modules)
Slot 1	
Slot 2	
Slot 3 🗸	
Communications	

Find the Allen-Bradley Micro800 Master communications driver as shown above and click OK.

Modify the Baud Rate and Parity settings such that it mirrors the port settings in the CCW software.

Navigation Pane X	Communications - RS-232 Comms Port		
🙈 New - 🔀	Driver Selection		
🚦 Communications			
E 🍄 Network	Driver: Allen-Bradley Micro800 Master Pick		
🍹 Protocol 1			
Protocol 2	Driver Settings		
🍹 Protocol 3			
Frotocol 4	Source Address: 0		
🖃 🖏 Serial Ports	Data link laver: Eull Dupley -		
RS-232 Program Port	Tun-Duplex +		
RS-485 Comms Port A	Frame Validation: CRC -		
= =() RS-232 Comms Port - Micro800			
III PLC1	Port Settings		
Image: Comms Port B			
😑 🖨 USB Host Ports	Baud Rate: 38400 🔻		
Memory Stick			
Expoard Expoard	Data Bits: Eight 👻		
🐑 Mouse	Stop Bits: One		
🖃 🥵 Connectors			
😪 Generic MQTT	Parity: None 👻		
😭 Amazon MQTT			
😪 Azure MQTT	Port Sharing		
😪 Sparkplug MQTT			
Sumulocity REST	Share Port: No TCP Port: 0		
🖃 🍰 Services			
🙀 OPC UA Server	Port Commands		
Time Manager			
ETP Server	Clear Port Settings		
🥵 Sync Manager	Add Additional Device		
🚔 Mail Manager			

Driver settings are available as follows:

<u>Source Address</u>: Configure the unique address that will represent the Red Lion device on the CIP network.

<u>Data Link Layer:</u> Select between Full-Duplex or Half-Duplex communications. This should be configured to match the setting used by the Micro800 PLC.

<u>Frame Validation</u>: Choose from CRC or BCC for the frame validation. This should be configured to match the setting used by the Micro800 PLC.

In Crimson click on the PLC device and set the Station Number to the same number as the Station Address in the CCW software.

Navigation Pane	Communications - RS-232 Comms Port - PLC1	
🙈 New 🗸 📉	Device Settings	
Communications	Enable Device: Yes	
Protocol 1	Tag Names	
Frotocol 3	Manage Import Export	
■ #① Serial Ports =① RS-232 Program Port =① RS-485 Comms Port A	Device Options	
E = ■ RS-232 Comms Port - Micro800	Station Number: 1	
■ 🛱 USB Host Ports	Transaction Timeout: 1000 📩 ms	

Device settings are available as follows:

<u>Transaction Timeout:</u> This is the amount of time that the driver will wait before a transaction is considered to have failed. Shorter times will detect failures sooner, but longer times will be more tolerant of slow connections.

Ethernet Configuration

In Rockwell Automation's Connected Components Workbench (CCW) software open the Project Organizer window via the View Menu then double click on the controller at the top level of the tree in the Project Organizer window to open the controller tab.

Project Organizer 👻 म 🗙	Prog1-POU Micro820 + X Start Page	
Name: Project2	Micro820	Run
월 월 월		Program
Micro820		
로 Prog1 - : Cocal Variables - : Global Variables - 중 User-Defined Function Bic - 중 DataTypes	2080-LC20-20QBB	
	Controller - General - Memory - Startup - Serial Port - Ethernet	

In the Controller tree within the controller tab, click on Ethernet.

Name: Project2	Micro820	Run Remote Run D Program Program
Micro820	L C ☉ A Download Upload Diagnose ∽ Secure ∽	
e - I Prog1	2080-LC20-20QBB	
	General General General	
	Memory 💮 Diagnose	
	Serial Port Serial Po	y Port Settings Port Settings Port State: Port State: Port State: Port State: Port State: Port State: Port State: Port St
	Recipe Plug-in Modules Vetect duplicate IP addres	55

Configure an appropriate IPv4 address according to the network requirements. Please consult your IT department for assistance if needed.

In Crimson's Communications category select an available protocol in the Network element of the Communications tree and click on the Pick... button.

Navigation Pane	×	Communications - Network - Protocol 1	
Communications Network Determine	^	Driver Selection Driver: No Driver Selected Pick	
		Port Commands Delete Network Port Clear Port Settings Add Additional Device	
□ ↓ USB Host Ports □ Memory Stick □ Keyboard ↓ Mouse □ Sconectors ↓ Amazon MQTT ↓ Amazon MQTT ↓ Azure MQTT ↓ Sparkplug MQTT ↓ Cumulocity REST □ ↓ ↓ OPC UA Server ↓ ↓	Picker for nufacturer 5ystem> 88 E Tech tromag Jenus (en-Bradley stom utomation I Cnet unner tchoff tta LaserMil	er Port Port Port Port Port Port Port Port Port Port	
Mail Manager SQL Sync Gomes Modules Slot 1 Slot 2 Note: 2	ОК	Cancel Total of 100 Drivers Available.	

Find the Allen-Bradley Micro800 Master communications driver as shown above and click OK.

In Crimson click on the PLC device.

Navigation Pane	Communications - Network - Protocol 1 - PLC1
💰 New 🗸 📉	Device Settings
Communications	A
Performance	Enable Device: Yes 👻
🖃 🍸 Protocol 1 - Micro800	
PLC1	Tag Names
🏋 Protocol 2	
🏋 Protocol 3	Manage Import Export
🐮 Protocol 4	
🖃 📹 Serial Ports	
= RS-232 Program Port	Device Options
RS-485 Comms Port A	IP Address: 192.168.1.100
C RS-232 Comms Port	
RS-485 Comms Port B	Transaction Timeout: 1000 🔶 ms
USB Host Ports	
Memory Stick	E Advanced Settings
iiii Keyboard	
Mouse Nouse	Spanning Reads: Enabled 👻
🖃 🧱 Connectors	Transactional Writery Frankland
💭 🙅 Generic MQTT	Inansactional writes.
🙅 Amazon MQTT	Preempt Other Devices: No
🙅 Azure MQTT	
Sparkplug MQTT	Favor UI Writes: No 👻
Cumulocity REST	Comme Delaw
🖃 🧱 Services	
OPC UA Server	
Time Manager	Device Commands
🚡 FTP Server	Delete This Device
👜 Sync Manager	Add Gataway Block
🙈 Mail Manager	Add Gateway block
🚱 SQL Sync	Create Data Tags

Device settings are available as follows:

IP Address: This is the IP address of the target Micro800 PLC.

<u>Transaction Timeout</u>: This is the amount of time that the driver will wait before a transaction is considered to have failed. Shorter times will detect failures sooner, but longer times will be more tolerant of slow connections.

Tag Creation

The driver maintains a list of tag names that correspond to the tags configured in the Micro800 PLC. A tag import mechanism is provided, but these tags can also be manually created.

To create a tag, click on the Manage button from the device configuration page:

Communications - Networ	k - Protocol 1 - PLC2
Device Settings	
Enable Device: Yes	-
Tag Names	
Manage	Import Export
Device Options	
IP Address:	192.168.1.100
Transaction Timeout:	1000 ms

The following dialog will appear:

Manage Tag Names	X
Tag Names	Create Tags BOOL Create Array 1 Array Details Type: Minimum: Maximum: CIP Type: Close

Manage Tag Names	X	
Tag Names	Create Tags	

To create a new tag, select the appropriate type from the drop-down box:

Then click the Create button and the following dialog will appear:

Create Tag	×
Tag Name	
OK Cancel	

Enter the name of the tag as found in Connected Components Workbench and click OK.

Manage Tag Names		×
Tag Names		Create Tags
MyTag	*	DINT Create
		Array
		Details
		Туре:
		Minimum:
		Maximum:
	-	CIP Type:
	Delete	Close

To create an array, click the Array checkbox and set how many dimensions the array should be, up to a maximum of 3. This will enable a corresponding box for each dimension. Enter the maximum size of the array for each dimension. The dimensions are assumed to start at index and span to the maximum dimension, inclusive. Then click create and name the tag as above. Use driver v1.01+ in Crimson 3.1+ for support of string arrays.

Manage Tag Names			×
Tag Names BigArray CountUpBit CountUpDone CountUpReset DINT_Array DoubleArray Global_add_bit Global_REAL Global_reset_bit Global_STRING MultiArray MyTag	E Delete	Create Tags DINT Create Array 3 10 10 10 Details Type: Minimum: Maximum: CIP Type:	
[USE

Tag Import and Export

This section will describe the procedure to export tags from Connected Components Workbench and then import the file into Crimson 3.0.

First, open the project for the Micro800 PLC in Connected Components Workbench. There are two ways to export the tags in the project to a file.

The first way is to select the Device menu from the main menu bar. Then select Export->Variables to Excel:



Alternatively, right-click on the controller's name, and select Export->Variables to Excel:



A dialog will appear. Select the desired location and name for the exported file and click the Export button:

Variable Exp	ort/Imp	oort - Micro820	- □ ×
Import Var	iables	Export Variables	
File name	U:\De	sktop\test.xls	Browse
			Export Cancel

Now the variables are in a spreadsheet file in Excel format, but Crimson 3.0 is unable to read Excel files directly. The file will need to be saved as a Comma Separated Values (CSV) file as described below.

First, open the exported spreadsheet file in Excel. Then, select File->Save As from the main menu bar. Select the CSV file type from the drop-down menu, and save the file:

	File name:	test.xls
	Save as type:	Excel 97-2003 Workbook (*.xls)
Authors:		Excel Workbook (*.xlsx) Excel Macro-Enabled Workbook (*.xlsm) Excel Binary Workbook (*.xlsb) Excel 97-2003 Workbook (*.xls) XML Data (*.xml)
0	Hide Folders	Single File Web Page (*.mht;*.mhtml) Web Page (*.htm;*.html) Excel Template (*.xltx)
22		Excel Macro-Enabled Template (*.xltm)
23		Text (Tab delimited) (*.txt)
25		Unicode Text (*.txt)
26		XML Spreadsheet 2003 (*.xml)
27		CSV (Comma delimited) (* csv)
28		Formatted Tast (Space delimited) (*.prn)
29		Text (Macintosh) (*.txt)
30		Text (MS-DOS) (*.txt)
31		CSV (Macintosh) (^.csv)

Now go to Crimson 3.0, and click on the import button in the driver's configuration page:

Tag Names	;	 \frown	_	
	Manage	Import	D	Export
		\sim		

Use the file selection dialog to navigate to the location where the CSV file was saved. Click the Open button and the tags in the file will be automatically created and are available to map in Crimson 3.0.

Tags can also be exported from Crimson 3.0 to a CSV file. Select the export button and use the dialog to select a name and location for the exported file. This file can be imported in other Crimson 3.0 databases.

Mapping to Crimson 3.0+ Tags

The "Select Address" dialog box can be found by selecting the device representing the Micro800 device in the Source drop down box of a Tag created in the Data Tag category in Crimson.

🕒 🗇 🗅 🔂 🖬 ២ 💷 🐁 🖻 🖺 🖓 🐼	
Navigation Pane X	Data Tags - Tag1
🧠 New 👻 🛱 🔀 🖉	Data Format Colors Alarms Triggers Plot Security
Data Tags	Data Source
X lag1	Source
	Extent:
	Manipulation:
	Treat As:
	Access: New Tag
	Read Mode: Next
	Storage: Master
	PLC1
	Data Scaling
Select Address	22
Tag <u>N</u> ames	Address
MyBoolArray	MyDintArray
MyDintArray	
MyIntArray	1 2 3
MyLintAriay MyNewVar =	
MySintArray	- Details
MyStringArray1	Details
MyUdintArray	Type: Long as Long
MyUsintArray	Minimum: MyDintArray[0, 0, 0]
tagBOOL	Maximum MyDintArray/5 5 51
tagBYTE	maximum. myomorray[5, 5, 5]
tagDATE	CIP Type: DINT
tagDINT	
tagDWORD	
tanINIT	OK Cancel
	Cancer

Highlight the desired tag name and click OK. If the tag name represents an array, enter the desired offsets into the offset boxes and click OK.

For array assignments set the Extent field in the Data Source group to a value consistent with the assigned Source index and the array length as created or imported.

Navigation Pane	×	Data Tag	Data Tags - TagsPLC1.MyDintArray								
🥶 New 🔹 🖙 🗙 💑 🔎		Data	Data Format Colors Alarms Triggers Plot Security								
Sata Tags ☐ ☐ TagsPLC1 ₩ MyBoolArray		Data So Sou	urce	V PL	a	MyDint/	\rray[1,2,3	3] Pick			
MyDintArray MyIntArray MyLintArray		Exte	nt:	. ▼ Ar	ray	3]				
X MyNewVar X MySintArray MyStringArray1		Mar Trea	nipulation t As:	: None Signe	d Integer		•				
MyUdintArray MyUintArray	_	Acce	ess: d Mode:	Read	and Write	2	-				
I tagBOOL I tagBOOL	2	Stor	age:	Non-F	Retentive	-					

String Access

Strings should be assigned to a string tag with the Data Source Packing element set to None as shown below.

🗠 New 🗸 🕞 🗶 🖧 🔎		Data Format Colors Security
MySintArray	•	Data Source
MyStringArray1		
MyUdintArray		Source: PLC1 tagSTR Pick
MyUintArray		
VintArray2		Extent: One Item
MvUsintArray		
tagBOOL	- 11	Length: 80 Characters
X tagBYTE		
		Packing: None 👻
		Access: Read and Write
X tagDWORD		
X tagINT		Read Mode: Entire Array 👻
🔀 tagLINT		
AB WriteLINT		Storage: Non-Retentive 👻
WriteLREAL		
Tagl REAL		Data Simulation
Deadl DEAL		
		Simulate As: General Edit
AB ReadLINI		
X tagLWORD		
7 tagREAL		Data Actions
X tagSINT		
AB tagSTR		On Write: General None

Ensure that the Length property in the Data Source group is set to the same value as specified in the tag import operation.

64-bit Data Access

Map 64-bit data types (LINT, ULINT, LWORD, LREAL) to a tag and set the Extent property in the Data Source group to a value two times the number of 64-bit values that this tag will represent.

🧠 New 👻 🛱 🗙 🖓		Data	Format	Colors	Alarms	Triggers	Plot	Security	
MySintArray	~	Data Co							
10 MyStringArray1		Data 30	uice						
X MyUdintArray		Sou	rce:	PL	C1	tagLINT			Pick
🔀 MyUintArray						-			
🔀 UintArray2		Exte	nt:	🔻 Ari	ray	2			
🔀 MyUsintArray									
🕫 tagBOOL		Man	ipulation:	None			•		
X tagBYTE		Trea	+ Ac:	Ciana	d Integer		-	1	
X tagDATE		iica		signer	u integer		•		
X tagDINT		Acce	ess:	Read a	and Write		-]	
X tagDWORD								2	
X tagINT		Rea	d Mode:	Entire	Array		•		
X tagLINT		Stor	-	Non B	Intentive				

Use the following user functions to get double values.

cstring AsTextL64(*data, radix, count*) for integers cstring AsTextR64(*data*) for reals

Where *data* is the first element in the array of the double value that will be passed as a string, *radix* is the number base to be used and *count* is the number of digits to generate.

ata Tags	- TagsPL	.C1.Readl	INT		
Data	Format	Colors	Security	ty	
Data So	urce —				
Sou	rce:	💌 Gen	eral	AsTextL64(tagLINT[0],10,20)	dit
Exte	nt:	🔻 One	Item		
Leng	ith:	16	*	characters	
Pack	ing:	None		-	
Acce	551	Read Or	nly	~	
Read	d Mode:	Entire A	rray	T	
Stor	age;	Non-Re	tentive	¥	

Use the following user functions to set double values.

void TextToL64(input, output) for integers
void TextToR64(input, output) for reals

Where *input* is a string representing a double value and *output* is the first element in the array of the double value to be set.

Image Button 3 Properties	23
Button Show Action	
Action Mode Operation: User Defined	
Acti Edit General Action	×
Editor TextToL64(TagsPLC1.WriteLINT, TagsPLC1.tagLINT[0], 10) OK Cancel	
Action Control	
Protection: None	
Enable: General true Edit	
Remote: Enabled 🔻	
OK Cancel	

Crimson 3.1+ Auto Mapped Tag Creation

Red Lion's Micro800 driver version v1.01+ also supports Crimson 3.1+ automatically mapped tag creation from an imported CSV file.

First, follow the steps in the previous Tag Import and Export section to produce a CSV file suitable for import.

Next, in Crimson 3.1+ go to the Communications category and select the PLC device that represents the Micro800 device.

Navigation Pane X	Communications - Network - Protocol 1 - PLC1
🔏 New 🕶 🗙	Device Settings
Communications	Device settings
Retwork	Enable Device: Yes 👻
Yrotocol 1 - Micro800	
MI PLC1	Tag Names
Y Protocol 2	
Trotocol 3	Manage Import Export
🏅 Protocol 4	
🖃 🜒 Serial Ports	Device Options
RS-232 Program Port	Device Options
RS-485 Comms Port A	IP Address: 192.168.1.100
RS-232 Comms Port	
=1 RS-485 Comms Port B	Transaction Timeout: 1000 📄 ms
🖃 🖨 USB Host Ports	
🖬 Memory Stick 🗧	Advanced Settings
I Keyboard	Companies Bander
to Mouse	spanning Reads:
🖃 🍔 Connectors	Transactional Writes: Enabled -
👷 Generic MQTT	
Search Amazon MQTT	Preempt Other Devices: No 🔻
Search Azure MQTT	Favor I II Writes:
Sparkplug MQTT	No T
Cumulocity REST	Comms Delay: 0 ms
E Services	
OPC DA Server	Device Commands
Ime Manager	
	Delete This Device
Mail Manager	Add Gateway Block
	Create Data Tags
Comms Modules	-

Click on the Create Data Tags link in the Device Command group.

Allen Bradley Tag Configuration
Folder
Folder Name: TagsPLC1
Name and Label
Define: Tag Names
Vame Name
Alias
Comment
Data Type
Information
Only those tag names with legal characters and length will be used to create automatically mapped data tags.
OK Cancel

The Folder Name defines the name of the folder in the Crimson's Data Tag category in which the newly created data tags will reside. Modify the text if desired.

Use the UI elements in the Name and Label group to set the newly created tags names and/or labels based upon aspect(s) of the imported file.

Allen Bradley Tag Configuration	x
Folder	
Folder Name: TagsPLC1	
Name and Label	
Define: Tag Names	
Tag Names Tag Labels	
Alias	
Comment	
🔲 Data Type	
Information	
Only those tag names with legal characters and length will be used to create automatically mapped data tags.	
OK Cancel	

Click OK which will launch the Open File dialog box.

-P Open File				
O → Micro800				
Organize 🔻 New folder				
☆ Favorites	Name	Date modified	Туре	Size
🥅 Desktop	CCW_Export.csv	8/30/2018 3:01 PM	Microsoft Excel C	2 KB
🚺 Downloads	Global.csv	9/25/2018 7:40 AM	Microsoft Excel C	738 KB
🔢 Recent Places	Global2.csv	9/28/2018 10:29 AM	Microsoft Excel C	740 KB
Music	Local.csv	9/6/2018 1:41 PM	Microsoft Excel C	1 KB

Select the desired previously prepared for import CSV file and click OK.

Crimson will attempt to replace illegal characters with an underscore. Any remaining duplicate or illegal tag name details are shown in the Micro800 Import Error Dialog.



Tags are now auto created and exist in the Data Tags category in Crimson available for further configuration and usage.

Navigation Pane 🗙	Data Tags - TagsPLC1
🧠 New 👻 🛱 🔀 🔑 🔎	Folder Details
🔩 Data Tags 🔹	
🗉 🧰 TagsPLC1	Description: Global2
W MyBoolArray	Clarge
X MyDintArray	
X MyIntArray	
X MyLintArray	
X MyNewVar	
X MySintArray	
1 MyStringArray1	
X MyUdintArray	
X MyUintArray	
X MyUsintArray	
🔨 tagBOOL	
🔀 tagBYTE 📰	
X tagDATE	
X tagDINT	
X tagDWORD	
X tagINT	
🔀 tagLINT	
X tagLREAL	
X tagLWORD	
7 tagREAL	
X tagSINT	
AB tagSTR	
X tagTIME	
Communications	
🔁 Data Tags	
Of Diselect Deser	

Note array tags Read Mode property (in the Data Source group) is initially set to Entire Array. To improve efficiency the Read Mode can be set to On Demand as shown below.

Navigation Pane	Data Tag	s - TagsPL	C1.MyUi	ntArray			
🧠 New 👻 🛱 🔀 🔑	Data	Format	Colors	Alarms	Triggers	Plot	Security
🗆 🧁 TagsPLC1	Data So	urce					
MyBoolArray	Sou	irce:	V PL	C1	MyUint/	Array[0,0,	0] Pick
MyDintArray MyIntArray	Exte	ent:	T Ar	rav	31	1	
MyLintArray				,		1	-
MyNewVar MySintArray	Wat	iipulation	None				
MyStringArray1	Trea	at As:	Unsig	ned Integ	ger	•	
MyUdintArray	Acc	ess:	Read	and Write	e	•	•
UintArray2	Rea	d Mode:	On D	emand		-	•
tagBOOL	Sto	rage:	Non-	Retentive	-		
X tagBYTE	Data Sc	aling					
X tagDATE X tagDINT	Data St					_	1
X tagDWORD	Sca	ling:	Do Not	tScale		•	
X taglini X taglini	Dat	a From:	🔻 Ger	neral			Edit
WriteLINT	Dat	a To:	🔻 Ger	neral			Edit

Multi-dimensional arrays will have an array tag created to access a single dimension of the array.

Navigation Pane	×	Data Tags - TagsPLC1.MyLintArray Tag 20 🔘 🕻
🐗 New 🗸 🛱 🗡		Data Format Colors Alarms Triggers Plot Security
🖃 🗁 TagsPLC1		Data Source
AB ReadLREAL	_	Data Solice
WriteLREAL		Source: VIC1 MyLintArray(0.0.0) Pick
MyBoolArray		
WriteLINT		Extent: Array 12
MyDintArray		
MyIntArray		Manipulation: None 👻
MyLintArray		Tract Ar
ReadLINTArray		Signed Integer
WriteLINTArray		Access: Read and Write
WriteLINTArray_1		
WriteLINTArray_2	=	Read Mode: Entire Array
MyNewVar		Stavager New Petersting
MyNewVar_1		Storage.

To access another single dimension of the multidimensional array – right click on the created array tag and select Smart Duplicate.

Navigation Pane	×	Data Tags - TagsPLC1.MyLintArray Ta						fag 20 🄇		
🧠 New 👻 🛱 🗙 💑 🔎		Data	Format	Colors	Alarms	Triggers	Plot	Security		
TagsPLC1 Read(REA)	^	Data So	urce							
WriteLREAL		Sou	rce:	v PL	C1	MyLintA	rray[0,0,0]		Pick	
WriteLINT		Exte	nt:	📼 Ar	ray	12				
MyDintArray MyIntArray		Man	ipulation	: None			•			
MyLintAreau		Trea	t As:	Signe	d Integer					
Writel Sync Panes		Access:		Read	and Write					
Writel 🐇 Cut	E	Read	d Mode:	Entire	Array		•			
MyNet Copy		Stor	age:	Non-F	Retentive	-				
ReadL Z Delete		Data Sca	aling —							
MyStri		Scali	ing:	Do Not	Scale		•			
MyUir Find Usage		Data	a From:	🔻 Ger	neral				Edit	
tagBC 🧇 Add to Watch List		Data	а То;	🔻 Ger	neral				Edit	
tagBY T Rename		Disp	lay From:	🔻 Ger	neral				Edit	
X tagDI Private Access		Disp	lav To;	🔻 Ger	neral				Edit	
TagINT										

Select the newly created tag and click on the Pick... button in the Data Source group of the Data tab.

Navigation Pane	×	Data Tags - TagsPLC	C1.MyLintArray_1			Tag 33 (
🥶 New 👻 🛱 🔀 🎝		Data Format	Colors Alarms	Triggers Plot	Security	
TagsPLC1 ReadLREAL WriteLREAL	^	Data Source		Mad int America 1	01	
MyBoolArray		Source:	▼ PICI	WyLintArray(0,1,	J	PICK
MyDintArray		Extent:	▼ Array	12	_	
MyIntArray MyLintArray		Manipulation:	None		-	
MyLintArray_1		Treat As:	Signed Integer	•	-	
AB WriteLINTArray	Select Address	Access:	Read and Write			<u> </u>
	Tag <u>Names</u> MyBoolArray MyDintArray MyIntArray MyNewVar MySintArray MyVdintArray MyUdintArray MyUdintArray MyUsintArray tagBOOL tagBYTE			Address MyLintArray 2 Details Type: Minimum: Maximum: CID Type:	1 0 Long as Long MyLintArray(0, 0, 0) MyLintArray(5, 5, 5)	
X tagDINT X tagDWORD X tagINT X tagLINT	tagDINT tagDWORD		-		ОК	Cancel
🔽 taol REAL		Simulate AS.	• General		cur)

Enter the desired starting element and click OK.

Cable Information

RS232 Serial Connection

Micro800	Red Lion Device
Tx	2 Rx
Rx	5 Tx
G	3/4 COMM

Ethernet – Standard Ethernet Cable

Revision History

02/04/2016 – Created 08/30/2018 – Updated to new Crimson 3.0+ information sheet format. 10/18/2018 – Added Crimson 3.1+ Auto Mapped Tag Creation section. 10/22/2018 – Added 64-bit data access notes. 02/20/2019 – Added clarification of string array support for driver v1.01+.