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6.3 EtherNet/IP Connection Parameters

Connection parameters the gateway provides are as below:

- a. Input Instance: 102 (128 Bytes), 112 (256 Bytes), 122 (492 Bytes).
- b. Output Instance: 101 (128 Bytes), 111 (256 Bytes), 121 (492 Bytes).
- c. Configuration Instance: 103 (10 Bytes), 113 (10 Bytes), 123 (10 Bytes).

Take configuration parameters of RSLogix5000 as an example:

Туре:	ETHERNET-MODULE Generic Ethe	rnet Module			
Vendor:	Allen-Bradley				
Parent: Na <u>m</u> e:	Scanner SSTGateway	- Connection Para	ameters Assemblu		
Description:		1	Instance:	Size:	
		Input:	102	33	(32-bit
	· · · · · · · · · · · · · · · · · · ·	0 <u>u</u> tput:	101	32	(32-bit
Comm <u>F</u> orma	it: Data - DINT 🔄 💆	<u>Configuration</u>	113	10 -	(8-bit)
Address / I	Host Name	1			
• IP <u>A</u> dd	ress: 192 . 168 . 0 . 10	Status Input:		- <u>1</u>	
C Host N	ame:	Status Output:			

Notes: The "Size" (the bytes number that has been configured) in the above picture, is consistent with the input/output bytes number of Instance which has been configured in the configuration software SST-MI-CFG). In the above picture, "Size" is 32 (32x32/8=128) in the output bytes Instance101. Now, the relevant bytes number should also be 128 in the configuration software.



6.4 How to Read/Write I/O Data

6.4.1 Read and Write Data using I/O mode(Recommended)

The following RSLogix 5000 example will describe how to read/write I/O data using I/O mode.

Right click on EtherNet/IP scanner module, click "New Module", as shown below:



In the pop-up dialog box, unfold "+" before "Communications", choose "ETHERNET-MODULE", click "OK", as shown below:



GT100-EI-RS	
Modbus / EtherNet/IP	Gateway

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	. 10/100 Mbps Ethernet Port on CompactLogix5335E 1788 Ethernet to DeviceNet Linking Device 1788 10/100 Mbps Ethernet Bridge, Twisted-Pai	Allen-Bradley Allen-Bradley Allen-Bradley
TIGU ALLAY, R - 1794-AENT/B - Drivelogix5730 - ETHERNET-BRIDGE - ETHERNET-MODULE - EtherNet/IP - PH-PSSCENA/A + Digital + Drives + HMI	 1708 10/100 Mbps Ethernet Bridge W/Enhanced W 1794 10/100 Mbps Ethernet Adapter, Twisted-Pa 1794 10/100 Mbps Ethernet Adapter, Twisted-Pa 10/100 Mbps Ethernet Port on DriveLogix5730 Generic EtherNet/IP CIP Bridge Generic Ethernet Module SoftLogix5800 EtherNet/IP Ethernet Adapter, Twisted-Pair Media 	Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Allen-Bradley Parker Hannifin Corp.
	(ander L. Enveriere L	<u>Find</u>

Configure relevant information of GT100-EI-RS in the pop-up window, as shown below:

Type: Vendor: Parent:	ETHERNET-MODULE Generic Ethern Allen-Bradley Scanner	et Mot Set Com Please re	munication fer to <u>chap</u>	Parameters ter 6.3.	s.
Na <u>m</u> e: Description: Comm <u>F</u> ormat	Set the name.	Connection Para Input: Output: Configuration:	Assembly Instance: 102 101 113	Size: 33 * 32 * 10 *] (32-bit)] (32-bit)] (8-bit)
● IP <u>A</u> ddr C <u>H</u> ost National State	ess: 192 . 168 . 0 . 10 ame: IP address of the SS'	Status Input: T gateway.			

In the above picture, the module information needs to be configured includes:

Name: Name the added EtherNet/IP adapter module (GT100-EI-RS module).

Comm Format: Configure data types. Users can choose data types as DINT, INT, SINT and REAL, etc. After



confirmation, this cannot be changed. If you want to change data types, you can create new module.

IP Address: Set IP address of the EtherNet/IP adapter module (IP address of GT100-EI-RS). IP address of GT100-EI-RS is the address downloaded into module through software SST-MI-CFG.

Connection Parameters: Set Connection parameters during communication, this parameter GT100-EI-RS supports can refer to past chapter.

Note: "Size" (configured bytes) in the above picture should be the consistent with relevant input and output bytes of Instance in the above chapter.

Click "OK", set scanner polling time interval in the pop-up dialog box, the default is 10ms, as shown below:

Bodule Properties: Baster (ETHERNET-BODVLE 1.1)	×
General Connection Module Info	1
Bequested Packet Interval (RPI): 10.0 + ms (1.0 - 3200.0 ms)	
Major Fault On Controller If Connection Fails While in Run Mode	
Module Fault	
Status: Offline OK Cancel Apply Help	

After setting this interval, click "OK" to save. Double click "Controller Tags", unfold "GT100EIRS: O", as shown below:



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S RSLogix 5000 - Controller in GT100EIRS.ACD File Edit View Search Logic Communications Too	[1756-L55 ols <u>W</u> indow]* Help						×
		• &&& B	2 2	Q				
Offline 🛛 🗸 🗖 RUN	👬 Path: <	none>		- **				
No Forces								
No Edits	< H ⊨		I)(L)-					
Redundancy bog	▼ ► A Fave	rites 🖌 Add-On 👗 Alarms	🖌 Bit 🖌 Timei	/Counter 🛔 In	iput/Output 👗 Ci	ompare 👗 🤇	ompute/Math 🔏 N	tove/Logical 👗 File/Misc. 👗 File/Shift
	p	Controllor Togs - Contr	aller (gents	allar)				
Fower-Up Handler		controller rags contr	orrer (conci	orren				
🖂 🖂 MainTask	S S	cope: 🚺 Controller 📃	Show	Unused, STRI	NG, ALARM, ALA	RM_ANALO	G, ALARM_DIGITAL	., AXIS_CONSUMED, AXIS_GENERIC, A'
🖻 🕞 Mainfrogram		Name 🛆	Alias For	Base Tag	Data Type	Style	Description	
Program Tags		⊞-SSTGateway:C			AB:ETHERN			
MainRoutine		⊡ SSTGateway!			ABETHERN			
		+-SSTGateward Data			DINT[33]	Decimal	6	
Ungrouped Axes		E-SSTG ateman 0				D COMING		
🗀 Add-On Instructions		E-CCTC atauau O Data			DINIT/221	Desired		
🖻 🔄 Data Types					DINT[32]	Decimal		
User-Defined		SSTGateway:U.Data[U]			DINT	Decimal		
dd-Op-Defined		SSTGateway:0.Data[1]			DINT	Decimal		
F Redefined		±-SSTGateway:0.Data[2]			DINT	Decimal		
🗄 📻 Module-Defined		ESSTGateway:0.Data[3]			DINT	Decimal		
- Trends		E-SSTGateway:0.Data[4]			DINT	Decimal		
E G I/O Configuration		E-SSTGateway:0.Data[5]			DINT	Decimal		
□ □ IISb Backplane, IISb-AI		+-SSTGateway:0.Data[6]			DINT	Decimal		
E- 1 [1] 1756-ENBT/A Scanner		+-SSTGatewarr() Data[7]			DINT	Decimal	22	
E Hernet		+-ccTGatowarD Data[0]			DINT	Desimal		
ETHERNET-MODULE SSTGateway		E SSTGaleway.O.Data[0]			DINT	Desimal		
1756-ENBT/A Scanner	-	Monitor Tags AEdi	t Tags/				- 19 - 19 - 19	0
<u></u>								
Create Output Energize instruction								

In the above picture, SSTGateway:O.Data [0] ~SSTGateway:O.Data [31] is the corresponding output data address

of GT100-EI-RS module in scanner.

Unfold "SSTGateway: I", as shown below:

RSLogix 5000 - Controller in GT100E File Edit View Search Logic Communicat	IRS. ACD [1756-L5	i5]* Helm							<u>_</u> _×
	21121 21111	- && & E	2 2 2	Q					
Offline 🛛 🗸 🗐 RUN	Path:	<none></none>		- *					
No Forces	9		1 1						
No Edits	<u>▲</u> <u>⊢</u>)(L)-						
Redundancy 5.0	□ · · Fa	vorites 🖌 Add-On 👗 Alarms	Bit 🖌 Time	r/Counter 🖌 Ir	iput/Output 👗 C	ompare 🛓 C	Compute/Math 🔏 N	1ove/Logical 🖌 File/	Misc. 🖌 File/Shift
Power-In Handler		Controller Tags - Contr	oller (cont	roller)					
E S Tasks		Scope: 1 Controller	Show	Unused STRI					AVIS GENERIC A
🖃 🤕 MainTask						I		1	,AND_GENERIC,A
AinProgram		Name 🛆	Alias For	Base Tag	Data Type	Style	Description		
MainBoutine		±-SSTGateway:C			AB:ETHERN				
Unscheduled Programs / Phases		SSTGateway:			AB:ETHERN				
🖶 😁 Motion Groups		SSTGateway:I.Data			DINT[33]	Decimal			
- Gingrouped Axes		E-SSTGateway:I.Data[0]			DINT	Decimal			
Add-On Instructions		±-SSTGateway1 Data[1]			DINT	Decimal			
E-C Data Types		+ SETG steward Data[2]	7.	8	DINT	Decimal			
String					DINT	Decima	-		
Add-On-Defined		TSSTGateway:I.Data[3]			DINI	Decimal	-		
🕀 🙀 Predefined		SSTGateway:I.Data[4]	<u>.</u>	8	DINT	Decimal			
庄 🙀 Module-Defined		+ SSTGateway:I.Data[5]			DINT	Decimal			
Trends		E-SSTGateway:I.Data[6]			DINT	Decimal			
I/O Configuration		SSTGateway:I.Data[7]			DINT	Decimal			
IISb Backplane, 1155-Af		E-SSTGateway:I.Data[8]			DINT	Decimal			
- 1 [1] 1756-ENBT/A Scanner		+-SSTGateward Data[9]			DINT	Decimal		-	
E & Ethernet		# SSIG staward Data[10]	76	8	DINT	Desimal			
ETHERNET-MODULE SSTGate	way				DINT	Decimal			
1756-ENBT/A Scanner	-	Monitor Tags AEdi	Tags/						
L			10. 10.						
Enter a tag name									//

In the above picture, four bytes of SSTGateway: I. Data [0] is real time frame head of EtherNet/IP adapter. SSTGateway:I.Data [1] ~SSTGateway: I. Data [32] is the corresponding input data address of GT100-EI-RS module in scanner.

6.4.2 Read and Write Data using MSG

The following RSLogix 5000 example will describe how to read/write I/O data using MSG.

1 Read I/O Data

Create a new project. it is in the "Offline" mode. Add two new tags "ReadTag" and "ReadData" under the "Controller Tags" and set the type of "ReadTag" as "MESSAGE" and "ReadData" as "DINT [500]".





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Right click "ReadTag", select "Configure "ReadTag":



In the new pop-up window, it needs to set some parameters as below:

Message Type: CIP Generic

Service Type: Select "Get Attribute Single", now, relevant service code will become "e (Hex)"

Class: 4 (Hex)

Instance: 102 (128 Bytes), 112 (256 Bytes) and 122 (492 Bytes) can be set

Attribute: 3 (Hex)

Destination: Select "ReadData" label, now, the data that have been received will be saved in this tag.

_
Element:
tion ReadData
Ne <u>w</u> Tag
2 Done O
, inter out

Choose "Communication" label, input the relevant path of connecting EtherNet/IP adapter in the blank space



behind the Path, the path format is: EthetNet IP hostname, EtherNet/IP scanner slot No., IP address of EtherNet/IP adapter, after setting the path, click "Apply", "Confirm". As is shown below:

In this instance, EtherNet/IP hostname is "Scanner", EtherNet/IP scanner slot No. Is "2", EtherNet/IP adapter (GT100-EI-RS) is "192.168.0.10". IP address of GT100-EI-RS is the address which is downloaded into the module through SST-MI-CFG.

Path: Scanner,2,192.168. GT100EIRS	0.10		Browse
Communication Method CIP C D <u>H</u> + Eh C CIP <u>With</u> Source ID <u>S</u> o	annel: 💌	Destination Link: Destination <u>N</u> ode:	0 == 0 == (Octal)
Connected	🔽 Cach <u>e</u> Conr	rections 🗲	





Add a "MSG" command in "MainRoutine" under the "MainProgram" and choose "ReadTag" as "Message

Control", as shown below:



This is a simple command which can sent a read request, it still needs to add some logic commands to trigger this command in common program. About the detailed information, please refer to RSLogix5000.

Download the program to the PLC and set PLC into "Online" state.



Click "Control Tags" and select "Monitor Tags", unfold "ReadData", you will see that PLC can read the data of

Modbus slave through the gateway GT100-EI-RS.

👫 BSLogix 5000 - Controller in Controller1. A	CD [1756-L55]*					_ & ×
<u>File Edit View Search Logic Communications To</u>	ols <u>W</u> indow Help					
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Redundancy NO	Add-On A	Alarms 🖌 Bit 🔏 Timer/Counter	K Input/Output K Compare K Comput	eMath A Move/Logical & FileMisc. &	File/Shift & Sequer	
		11 (11 -)				
E Controller Controller	Concroiter rags co	introller (controller)				
- Controller Fault Handler	Scoge: Controller	Show All Show All				
Power-Up Handler	Name	△ Value ← Force	 Style Data Type 	Description		
- Tasks	ReadData	{} {	.) Hex DINT[500]			
🖻 🕞 MainProgram	F ReadData[0]	16#0000_0000	Hex DINT			
Program Tags	E ReadData[1]	16#0000_0000	Hex DINT			
Mainfoutine	+ ReadData[2]	16#0000_0000	Hex DINT			
- Motion Groups	E ReadData[3]	16#0000_0000	Hex DINT			
Ungrouped Axes	E ReadData[4]	16#0000_0000	Hex DINT			
Add-On Instructions	FReadData[5]	16#0000_0000	Hex DINT			
User-Defined	E ReadData[6]	16#0000_0000	Hex DINT			
🕀 🛄 Strings	E ReadData[7]	16#0000_0000	Hex DINT			
Add-On-Defined	+ ReadData[8]	16#0000_0000	Hex DINT			
H - Module-Defined	H ReadData[9]	16#0000_0000	Hex DINT			
- Trends	E ReadData[10]	16#0000_0000	Hex DINT			
I/O Configuration	H ReadData[11]	16#0000_0000	Hex DINT			
[0] 1756-L55 Controller	H ReadData[12]	16#0000_0000	Hex DINT			
- 🖞 [1] 1756-DNB DeviceNet_Master	+ ReadData[13]	16#0000_0000	Hex DINT			
⊞- 🗒 [2] 1756-ENBT/A Master	+ ReadData[14]	16#0000_0000	Hex DINT			
	H ReadData[15]	16#0000_0000	Hex DINT			
	H ReadData[16]	16#0000_0000	Hex DINT			
	H ReadData[17]	16#0000_0000	Hex DINT			
	H ReadData[18]	16#0000_0000	Hex DINT			
	H ReadData[19]	16#0000_0000	Hex DINT			
	H ReadData[20]	16#0000_0000	Hex DINT			
	H ReadData[21]	16#0000_0000	Hex DINT			
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	H ReadData[23]	16#0000_0000	Hex DINT			
	H ReadData[24]	16#0000_0000	Hex DINT			
	It ReadData[25]	16#0000_0000	Hex DINT			
	TheadData[26]	16#0000_0000	Hex DINT			
	Monitor Tags A	Edit lags /				



2 Write I/O Data

Enter the "Offline" mode, add two new tags "WriteTag" and WriteData" under the "Controller Tags". Define the type of "WriteTag" as "MESSAGE" and "WriteData" as "DINT [500]":

Mew Tag					lew Tag				X
Name:	WriteData			OK	<u>N</u> ame:	WriteTag		e.	ОК
Description:			A	Cancel	Description:			-	Cancel
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Type:	Base	Connectio	n		Type:	Base	▼ Connec	stion	
Alias For					Alias For				
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Data <u>T</u> ype:	DINT[500]]		Data <u>T</u> ype:	MESSAGE		()	
Scope:	Controller	j.	-		Scope:	Controller		•	
Style:	Hex		•		Style:			*	
	uration					J CEACE Configure	ation		
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B K B C Controller		AB_ETHIP-11192-168.0 Path: AB_ETHIP-11192-168.0 Faulting: Fau	Image: Control of Control o	STD SIZE CPS	nspare 🖌 Compute Math 🔨 1	Nove/Logical 入 File/Misc.	🖌 File/Shift 🔏 Sequence		_
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Enter the "Monitor Tags" interface. input some data beginning from address WriteData[0] in the "WriteData" tag. There data will be outputted to GT100-EI-RS through PLC and write these data to Modbus slave devices through Modbus write command.



User Manual

Right click "WriteTag", select "Configure "WriteTag"":

E-ReadData	eadData		{}	Hex	DINT[500]	
E-ReadTag		{}	{}		MESSAGE	
^{E-} WriteData		{}	{}	Hex	DINT[500]	
🗄 Writi	New Tag		Ctr	1+W	MESSAGE	
	Edit "WriteTag" Edit "WriteTag" Pro	perties	Alt	+Enter		
	Configure "WriteTag	"	Ctr	1+I		
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	Message Path Editor					
	<u>G</u> o To		Ctr	1+G		
	Toggle Bit		Ctr	1+T		
	Force On					
	Force Off					
	Remove Force					
*	Cut		Ctr	1+X		
e e	Сору		Ctr	1+C		
6	Paste		Ctr	1+V		
	Paste Pass-Through					
	Delete		Del			
	Find All "WriteTag"					

In the new pop-up window, it needs to configure as below:

Message Type: CIP Generic

Service Type: Select "Set Attribute Single", now, relevant Service Code will become "10 (Hex)"

Class: 4 (Hex)

Instance: 101 (128Bytes), 111 (256Bytes) and 121 (492Bytes)

Attribute: 3 (Hex)

Source Element: Select "WriteData" tag, it indicates the data in the "WriteData" tag will become the data PLC outputs.

Source Length: Use byte as unit, this value should be less than or equal to the current selecting bytes which Instance represents (Configured bytes number in SST-MI-CFG).

lessage Con:	figuration - TriteTa	g			
Configurati Message <u>I</u> y Service <u>S</u> Type: <u>S</u> Service <u>10</u> Lode: <u>10</u>	on* Communication T be: CIP Generic et Attribute Single (Hex) Class: 4 Attribute: 3	≤g (Hex) (Hex)	Source Element: Source L <u>e</u> ngth: Destination	WriteData 128 🔹 Ne <u>w</u> Tag	(Bytes)

Choose "Communication" label, input the relevant path of connecting EtherNet/IP adapter in the blank space behind the Path, the path format is: EthetNet IP hostname, EtherNet/IP scanner slot No., IP address of EtherNet/IP adapter, after setting the path, click "Apply", "Confirm". As is shown below:

ath: [Scanner,2,132	<u>B</u>	<u>B</u> rowse		
SST_Gateway				
Communication Met	hod			
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Connected		Cache Connections	+	

In this instance, EtherNet/IP hostname is "Scanner", EtherNet/IP scanner slot No. Is "2", EtherNet/IP adapter (GT100-EI-RS) is "192.168.0.10". IP address of GT100-EI-RS is the address which is downloaded into the module through SST-MI-CFG.



Add a "MSG" command in "MainRoutine" under the "MainProgram" and choose "WriteTag" as "Message

Control", as shown below:

🗱 RSLogix 5000 - MyEnetIP_proj in ENB30xMI_M	36_128byte.ACD [1756-L55]
<u>F</u> ile <u>E</u> dit <u>Y</u> iew <u>Search</u> <u>Logic</u> <u>Communications</u> <u>T</u> ools <u>W</u> in	dow Help
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View Tag Configuration Bialog	Rung 3 of 4 APP WER

Download PLC program to the PLC and set PLC to "Online" state, the data in "WriteData" will be outputted to

Modbus slave through GT100-EI-RS (EtherNet/IP adapter).

