Embedded EtherNet/IP Module GS11-EI

User Manual

V 1.4

REVA





SST Automation

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User Manual

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1 Product Overview

1.1 Product Function

GS11-EI is an embedded EtherNet/IP module which can provide easy EtherNet/IP connectivity via a UART interface with a simple polling protocol.. Any device that supports the host interface can communicate with GS11-EI through UART.

1.2 Product Features

- > Upgrade the UART or serial device to EtherNet/IP device easily.
- ► Ethernet is 10/100M self-adaptive.
- Supports one EtherNet/IP connections.
- Provides user configuration software.
- > Setting the IP address via the UART (Optional Features).

1.3 Technical Specifications

- [1] Supports the EtherNet/IP communication protocol that follow ODVA standard.
- [2] GS11-EI provides one Ethernet port and one UART interface (included in the 20-pin connector), it can achieve

the data conversion between the EtherNet/IP data and serial data.

- [3] Ethernet is 10/100M self-adaptive.
- [4] The size of input and output buffers can be set by users:

The input buffer size is 256 bytes at most.

The output buffer size is 256 bytes at most.

- [5] As an EtherNet/IP server on the Ethernet side, can support one EtherNet/IP client to communicate only, the minimum data transmit rate is 5ms.
- [6] The serial interface: UART, half duplex, 8 data bits, one stop bit, and none parity, support 2400, 4800, 9600,

19200, 38400, 57600, 115200, 230400 baud rate. WWW.SSTAUTOMATION.COM



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- [7] Serial port use user-defined protocol, easy to achieve serial port communication.
- [8] Power supply: +3.3VDC (3.14 ~ 3.45V), 190mA.
- [9] Working temperature: $-40^{\circ}F \sim 185^{\circ}F$ ($-40^{\circ}C \sim 85^{\circ}C$), humidity: $5\% \sim 90\%$.
- [10] Dimensions (L x W x H): 1.46 in x 0.88 in x 0.95 in (37.2mm x 22.6mm x 24.2mm).

1.4 Revision History

Revision	Date	Chapter	Description
V1.3	5/10/2018	ALL	New release
V1.4	3/1/2022	PART	Revision for GS11-EI V1.4
V1.4 REV A	6/24/2022	PART	Revision for GS11-EI V1.4 Rev A





2. Hardware Description

2.1 Product Appearance



2.2 Indicators

Indicator	Status	Description	
Green	Off	No network connection	
	Always on	Network connection normal	
Yellow	Off	No network data transmitting	
	Blinking	Network data transmitting normal	





2.3 Interface

2.3.1 Ethernet Interface



The Ethernet interface uses an 8-line RJ-45 interface, follows IEEE802.3u 100BASE-T standard,10/100M

self-adaptive, and the pin definitions are as follows:

Pins	Signals	Descriptions
Pin 1	TXD+	Transmit Data+
Pin 2	TXD-	Transmit Data-
Pin 3	RXD+	Receive Data+
Pin 4	BID+	Bi-directional Data+
Pin 5	BID-	Bi-directional Data-
Pin 6	RXD-	Receive Data-
Pin 7	BID+	Bi-directional Data+
Pin 8	BID-	Bi-directional Data-

2.3.2 Host Interface

GS11-EI has a 20-pin socket connector (needle-type), including power interface, UART interface and GPIO. The pin position and definition are as follows:



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Pins	Signals	Description	
1~6	NC	Reserved	
7	RXD	UART Receiving (Input), connect with TXD of host processor or MCU	
8	TXD	UART Sending (Output), connect with RXD of host processor or MCU	
9	GPIO	Reserved	
		The status of GS11-EI (Output), which need a 10kΩ pull-up resistor on the user board. Logic 1(light on): The GS11-EI module on the startup.	
		Logic 0(light off): The module's startup has been completed. (Include waiting for	
10	/RUN	initialization state, start the EtherNet/IP protocol stack and data exchange state, etc.)	
		*Default IP address mode: By pulling down Pin 10 to low voltage before starting the	
		module (by using a $1k\Omega$ pull-down resistor), the module will start with default IP	
		address (192.168.0.11), and this mode is only used to update the firmware.	
11	BAUD2		
12	BAUD1	Set the UART baud rate (Input), see the following table.	
13	BAUD0		
14	/RESET	Reset signal (Input), Active low.	
15	+3.3V	+3.3V DC power Supply	
16	GND	GND power Supply	
17 ~ 19	NC	Reserved	
		Data Exchange (Output), and need a $10k\Omega$ pull-up resistor on the user board.	
20	/DATAEXCH	Logic 1(light on): The module is in non-data exchange state (such as start state,	
		waiting for initialization state, start the EtherNet/IP protocol stack, etc.)	

GS11-El Embedd	led EtherNet/IP Module
User Ma	nual
	Logic 0(light off): The module is ready for data exchange.

2.4 UART Baud Rate

UART baud rate settings are as follows:

Index	BAUD2	BAUD1	BAUD0	Baud Rate (bps)
0	0	0	0	2400
1	0	0	1	4800
2	0	1	0	9600
3	0	1	1	19200
4	1	0	0	38400
5	1	0	1	57600
6	1	1	0	115200
7	1	1	1	230400

2.5 Reset Signal

GS11-EI RESET (Pin 14) supports input of hardware reset signal. When the RESET pin is pulled down to GND or connects with voltage lower than 2.88V for more than 1 millisecond, the module will be forced to reset. The host must wait for 250 ms (typical value, after reset the module) after reset, then the user must check the Pin 10 (/RUN) and Pin 20(/ DATAEXCH). If the two pins are both Logic 0 (low voltage), then the host (user board) can exchange data.





3. Dimensions

Unit: [mm]



Front:







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Side:



PCB dimension:





4. Communication Protocol

4.1 Description

GS11-EI acts as an EtherNet/IP server at the Ethernet side, serial port uses user-defined protocol. The EtherNet/IP communication and serial communication are completely independent. The data exchange can be finished through the internal input and output data buffer of GS11-EI. According to the GS11-EI serial communication protocol, the user board can complete the input and output data exchange.

The procedure of message transmission is as follows:



4.2 The GS11-EI Communication Flowchart and User Program

Here are the flowcharts of two kinds of IP configuration; users can choose one of them in accordance with specific conditions. For choosing the chart, please refer to the "Advanced Parameters" section in <u>Chapter 6.4</u>.



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The communication flow chart of using serial port (UART) setting method: The communication flow chart of using PC configuration software setting method:



4.3 Real-time monitoring IP function

If the GS11-EI is set to DHCP, then the module will monitor its IP when it is running. If IP changed, it will pull up /DATAEXCH pin to logic 1.Then two cases:

1. Using configuration software to set IP address mode: The module will obtain an IP again. User needs to read

//DATAEXCH pin state. If it returns to logic 0, indicating that the module has obtained IP, and the module can

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begin to communicate;

2. Using UART to set IP address mode: GS11-EI will wait the user to send the request for setting IP address, and the next step is the same with the first initialization.

4.4 Initialize Communication

Communication mode: user board (host) is the communication initiator, and GS11-EI responses.

Configuration of baud rate: Once the GS11-EI is powered on or reset, it reads the pins BAUD0, BAUD1, BAUD2

and select the UART baud rate accordingly by itself.

1. Initialization request message--- (user board->module), When user chooses to use the serial port (UART) to set

the IP address and other inf	formation, sent this	initialization request	message.
------------------------------	----------------------	------------------------	----------

Byte	EtherNet/IP to user-defined protocol	
0	Define the length of the package in bytes, in normal it is 17 bytes (in hexadecimal) which includes all	
1	following bytes from 2 through 18, high-byte is priority.	
2	The default value is 0; when the user sets GS11-EI via UART that use DHCP to assign IP address, the	
2	value of this byte is 1 *	
3	IP Configuration Mode, 0: Static Configuration; 1: DHCP;	
4		
5	ID Address high but first	
6	IP Address, high-byte first	
7		
8		
9	Subject Mask high bate first	
10	Subnet Mask, nign-byte first	
11		
12		
13	Default Cateway Address high bute first	
14	Default Galeway Address, nign-byte first	
15		
16	Reserved, always 0	
17	Reserved, always 0	
18	Reserved, always 0	
19	Check sum, byte 0+byte 1++byte 18	

Notes:

When setting the GS11-EI module via UART that uses DHCP to assign IP address, the user board sends above

message (the value of byte 2 should be 1).

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And then, when GS11-EI does not receive the IP address that assigned by DHCP Server on the network, it will send 0x2E to user board each second.

If DHCP Server finished IP allocate, then GS11-EI will send a message which contains the IP address, the subnet mask, and the default gateway to user board.

For example: GS11-EI sends message to user board: 0C C0 A8 00 BB FF FF FF 00 C0 A8 00 01 95.

The 0x0C is the header and means there are 12 bytes behind, and it follows by a 4 bytes of IP address

(192.168.0.187), 4 bytes of subnet mask (255.255.255.0), 4 bytes The default gateway (192.168.0.1), the last byte represents checksum.

when user set the GS11-EI module IP address via UART and does not use DHCP, user board sends above message

(the value of byte 2 should be 0), and then the module will send the following message to the user board.

1. Initialize response message--- (module->user board)

byte	Correct Response	Incorrect Response
0	Data length is 2	Data length is 2
1	0: Correct	Error code (not 0)
2	0	Extra error code
3	Check sum, byte 0+byte 1+byte 2	Check sum, byte 0+byte 1+byte 2

2. Error code

Index	Error Code	Explanation
0	1	Check sum error.
1	2	Data length error.
2	3	IP configuration mode does not exist.

3. Extra error code is always 0xFF

4.5 User-defined Protocol

Communication mode: User board is the communication initiator, and GS11-EI responses.

The request messages contain input data, and the response messages contain output data. The communication

process is as follows:





1. Request message (user board -> module)

Byte	Description	
0	massage length in shides all fallowing by tag avaant the sheely sum by ta high by ta first	
1	message length includes all following bytes except the check sum byte, high-byte first	
2		
•••	Input data, high-byte first	
n		
n+1	Check sum, byte 0+byte 1++byte n	

2. Response message of user-defined protocol (module -> user board)

Byte	Correct response	Byte	Incorrect response
0	message length includes all following bytes except the	0	0x80
1	check sum byte , high-byte first	1	Data length is2
2		2	Error code
•••	Output data high but first	3	Extra error code
	Output data, figh-byte first	4	Check sum, byte 0+byte 1+byte
11		4	2+byte3
n+1	Check sum, byte 0+byte 1++byte n		

3. Error code

Index	Error code	Description
0	1	Sum CRC Error
1	2	Data Length Error

4. Extra error code is always 0xFF.





5. Development Board

5.1 Appearance



5.2 Function

5.2.1 RS232 Interface

RS232 interface is DB9 pin-connector, the description show as follow:

Pin	Signal	Description
2	RX	Connect with pin TX of RS232 of PC
3	TX	Connect with pin RX of RS232 of PC
5	GND	Connect with pin GND of RS232 of PC

DB9 hole-connector crossover cable must be used when connect the board with RS232 interface of PC, as shown below:





5.2.2 Baud Rate Setting Switch

The 4-bit DIP switch on the development board is used to set the serial (UART) baud rate and default IP address locking (for firmware update), shown as below:



Low bit Middle bit High bit Default IP address

Corresponding relationship of baud rate is as follows:

Index	High bit	Middle bit	Low bit	Corresponding baud rate (bps)
0	0	0	0	2400
1	0	0	1	4800
2	0	1	0	9600
3	0	1	1	19200
4	1	0	0	38400
5	1	0	1	57600
6	1	1	0	115200
7	1	1	1	230400

The baud rate showing in the picture is 115200bps. WWW.SSTAUTOMATION.COM



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The fourth bit of DIP is "Default IP address locking" bit. When this bit is "ON", Module is in firmware update state (unable to communicate normally), and the module will start up with default IP configuration.

IP address: 192.168.0.11 Subnet mask: 255.255.255.0 Default gateway: 192.168.0.1

5.2.3 Reset Key

The key on the development board is the reset key, which is used to manual reset GS11-EI through clicking once.

5.2.4 LED

Index	Name	Description
0	Power	Power indicator, On: Power on; Off: Power off
1	RTS	Reserved
		GS11-EI'UART transmits indicator;
2	TX	Blinking: GS11-EI'UART is transmitting data;
		Off: GS11-EI'UART isn't transmitting data.
		GS11-EI'UART receives indicator.
3	RX	Blinking: GS11-EI'UART is receiving data;
		Off: GS11-EI'UART isn't receiving data.
		GS11-EI status indicator,
4	Run	On: In run status;
		Off: In start-up status.
		GS11-EI data exchange indicator,
5	DataExch	On: In data exchange status;
		Off: Not in data exchange status.

There are six indicators on the development board, and the description is as follows:





6. Configuration Software

Download the configuration software SST-EIP-CFG on www.SSTAutomation.com and install . Follow the prompts to complete the installation. Then open the configuration software and finish the configuration of GS11-EI.

6.1 SST-EIP-CFG Introduction

SST-EIP-CFG is a product based on Windows platform, and is used to configure parameters of GS11-EI, Double click the icon to run the SST-EIP-CFG and its main window will appear as below:

Search Equipment	No.	Name	Module	IP Address	MAC Address	Firmware Version	Password
IP Search							
Configuration							
dvanced Configuration							
IP Address Report							
	Nev	w	Open		Save		Exit
Embedded	Modulo	Sories		UUUUUUU			
Easily provides Eth	erNet/IP, Mo	odbus TCP, PROFI	BUS DP		A CAN	3.00	

6.2 Search Equipment

Before configurating the parameters of GS11-EI, the user needs to search the equipment. Click the "Search

Equipment" button in the main window, SST-EIP-CFG will automatically list all of the GS11-EI on the network,

as shown below.

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Search Equipment	No.	Name	Module	IP Address	MAC Address	Firmware Version	Password
Staten Equipment	1	Ethernet/IP	GS11-EI	1 <mark>92.168.0.11</mark>	64-ea-c5-27-03-ac	1.4	None
IP Search							
Configuration							
dvanced Configuration							
IP Address Report							
	N	ew	Open		Save		Exit
Embedded I	Module	Series					
Easily provides Eth	erNet/IP, N	Nodbus TCP, PROFIB	US DP 🛁				

6.3 IP Search

When user just wants to search a known IP address device on the network, click "IP Search" button in the main window, and there will be popping up a dialog box: Fill in the IP address you want to search in the window and click OK.

192		168	0	ंट	11	
01	c	_	ſ		Cano	-01

The SST-EIP-CFG will list all searched equipment(s) in the table, as shown below.

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Search Equipment	No.	Name	Module	IP Address	MAC Address	Firmware Version	Password
otalen Equipment	1	Ethernet/IP	GS11-EI	192.168.0.11	64-ea-c5-27-03-ac	1.4	None
IP Search							
Configuration							
dvanced Configuration							
IP Address Report							
	N	ew	Open		Save		Exit
Embedded I Easily provides Eth	Module	e Series Nodbus TCP, PROFIB	US DP			3. 100	

6.4 Advanced Configuration

Note: The Advanced configuration is used to set the product-related parameters, it require the user to set the

administrator password to prevent other users from modifying the advanced parameters through the

SST-EIP-CFG.

Select one device in the main window, Click "Advanced Configuration" button.



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Search Equipment	No.	Name	Module	IP Address	MAC Address	Firmware Version	Password
	1	Ethemet/IP	GS11-EI	192.168.0.11	64-ea-c5-27-03-ac	1.4	None
IP Search							
Configuration					_		
Advanced Configuration		Search Equ	ipment by IP				
IP Address Report			OK [Cancel			
	N	ew	Open		Save		Exit
Embedded I						The seal	

The following interface will pop up:

lotice:	Nome	Ether	e thar	. 20	9			1		
	TP Configuration Mode	DHCP		_			_	1		
	II CONFIGURATION MODE	LINCE	100		0		45	J		
	IP Address	192	. 168		U	-2	15			
	Subnet Mask	255	, 255		255		0			
	Default Gateway	192	. 168	4	0		1			
	DNS1	0	. 0	4	0	3	0	Ī.		
	DNS2	0	. 0	- 3	0		0	I.		



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In this interface, users can configure: Ethernet, Password, IP Address Report and Advanced Parameters. The

following describes the above interface.

- Ethernet Parameters: (as shown above)
 - Name——The name is used to identify the GS11-EI module on the network, it can also be the name of the device's model;
 - IP Configuration Mode——Set the device's IP address configuration mode, Static or DHCP;
 - IP Address——Set the device's IP address;
 - Subnet Mask——Set the subnet mask of the device;
 - Default Gateway——Set the default gateway address of the device;
 - DNS1—currently not supported
 - DNS2—currently not supported
- Password Setup (as shown below)
 - User Password: Refers to the password that the user needs to enter when clicking the "advanced configuration" button on the main screen. Once the user password is set, the user needs to enter this password every time when configuring SST-EIP-CFG for user parameters. It is recommended not to set this password, as this password is for the users.
 - Admin Password: Refers to the password that the administrator needs to enter when clicking the "Advanced Configuration" button on the main screen. After the admin password is set, the administrator needs to enter this password when configuring SST-EIP-CFG for advanced parameters. It is recommended that the administrator set this password after the product setup is complete, it protect the advanced parameters from being modified by other users..



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Ethernet	Password IP Address	s Report Advanced Parameters	
Notice:	The password length ca User Password [Confirm Password [annot be more than 20!	
	Admin Password Confirm Password		

> IP Address Report:

It is used to set the GS11-EI by sending a packet that reports its current IP address, subnet mask, and default gateway to a port of the specified IP address device, which is sent as UDP. Users can enable this function by clicking on the "IP Address Report" button in the main screen of the configuration software SST-EIP-CFG. Click "Start" button and the SST-EIP-CFG will list all of the messages sent by the devices on the network.



IP A	ddress	Report				(
	UDP Mo	nitor Port: 1680 (1 ~	0 65535)	Begin	S	op
	NO.	Device_Na	IP_Address	MAC_Address	Nu	Previc

After this function is enabled, the user needs to set the IP address, Port Number and the Auto Report Period of the remote device, , as shown below:

Ethernet	Password	IP Add	bress Re	port			
-Cont	figuration ZEnable		102	120 0		 16900	
A: A:	ito Report ito Report	To Period	192 . 10 (1-7200))	. 11	(1-65535)	

Advanced Parameters: (as shown above)

The way to obtain IP address

• Setting the IP address via software SST-EIP-CFG. The users use this software to configure WWW.SSTAUTOMATION.COM 24

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network parameters (user parameter configuration).

- Setting the IP address via host interface (UART): The user board sets the IP address and other parameters through the UART. The user board sets parameters such as the IP address by sending an initialization request message; see section 4.4.
- Ethernet/IP connection parameters: The GS11-EI supports 3 sets of connection parameters.
 Each set of parameters has input and output. The number of input and output bytes can be any value from 0 to 256 bytes. (These three parameters are valid according to the largest Assembly Instance)
- Ethernet/IP device parameters: Supports changing VendCode and ProdCode.

thernet	Password	IP Addre	ss Report Adva	nced Parameters		
How to	Set the Mo	dule's II FP addres	ř Address – vie softwere	SST-FTP-CFG		
O Se	tting the 1	IP addres	s via the host	interface (VART)		
Ethern	et/IP Conne	ection Par	rameters	Accombly: Tostona		
102	(Input):	64	+4 (bytes)	112 (Input):	128	+4 (bytes)
101	(Output)	64	(hytes)	- 111 (Output):	128	(hytes)
101	(output).	04		III (Jucpac).	120	(by ces)
103		U	(bytes)	113	0	(bytes)
Åssen	bly Instan	ce				
122	(Input):	256	+4 (bytes)			
121	(Output):	256	(bytes)			
123		0	(bytes)			
Ethern	et/IP Equip	oment Par	ameters			
Vend	ICode:	1	(0 [~] 65535)	P JC . J	2035	(0 [~] 65535)
rent		-		rrodLode.	2000	(0.00000)
				<i></i>		20.000

6.5 User Parameter Configuration

Note: The user parameter configuration is the parameters set for user, such as the IP address parameters (If the IP

address obtain method in Advanced Parameters choose "Setting the IP address via software SST-EIP-CFG", see

chapter 6.4)



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S Gateway Configuration Software SST-EIP-CFG No. Name Module IP Address MAC Address Firmware Version Password Search Equipment 1 Ethernet/IP GS11-EI 192.168.0.11 64-ea-c5-27-03-ac 1.4 None IP Search Configuration Advanced Configuration IP Address Report New Open Save Exit **Embedded Module Series** Easily provides EtherNet/IP, Modbus TCP, PROFIBUS DP or PROFINET interface for your serial device.

In the main screen select the device need to be configured and click the "Configuration" button.

It will pop up the following interface:

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iner ne t	rassword if Address f	eport								_	1
	IP Configuration Mode	Stati	c					•]		
	IP Address	192		168		0	-	11			
	Subnet Mask	255		255	×	255	6	0]		
	Default Gateway	192	,	168	×	0	8	1			
	DNS1	0	ų,	0	4	0	ş	0			
	DNS2	0		0	3	0	8	0			

In this interface, users can configure: Ethernet, Password, IP Address Report. The following describes the above interface.

Ethernet Parameters: (as shown above)

- Name——The name is used to identify the GS11-EI module on the network, it can also be the name of the device's model;
- IP Configuration Mode——Set the device's IP address configuration mode, Static or DHCP;
- IP Address——Set the device's IP address;
- Subnet Masks——Set the subnet mask of the device;
- Default Gateway——Set the default gateway address of the device;
- DNS1—currently not support;
- DNS2—currently not support;

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Password: (as shown below)

• User Password: Refers to the password that the user needs to enter when clicking the "User parameter configuration" button on the main screen. After the user password is set, the user needs to enter this password when configuring SST-EIP-CFG for user parameters. It is recommended not to set this password., as this password is for users.

	Tassword IF Addre	ss Keport			
Notice: 1	The password length	cannot b	e more than	20!	
	2				
	User Password				
	Confirm Password	1			

> IP Address Report:

It is used to set the GS11-EI by sending a packet that reports its current IP address, subnet mask, and default gateway to a port of the specified IP address device, which is sent as UDP. Users can enable this function by clicking on the "IP Address Report" button in the main screen of the configuration software SST-EIP-CFG. Click "Start" button and the SST-EIP-CFG will list all of the messages sent by the devices on the network.

	anua	I				
IP A	ddress	Report				
	UDP Mo	nitor Port: 1680 (1 ~	0 65535)	Begin	S	top
	NO.	Device_Na	IP_Address	MAC_Address	Nu	Previc
	-					
	-					
	_					

After this function is enabled, user needs to set the IP address, Port Number and the Auto Report Period of the

remote device, , as shown below:

Address Report				
192 . 168 .	0.11	:	16800	
od 10 (1-7200)	5		(1-65535)	
	.ddress Report 192 . 168 . od 10 (1-7200)	.ddress Report 192 . 168 . 0 . 11 od 10 s (1-7200)	.ddress Report 192 . 168 . 0 . 11 : od 10 s (1-7200)	.ddress Report 192 . 168 . 0 . 11 : 16800 (1-65535) od 10 s (1-7200)

Appendix: How to Read and Write I/O Data

There are 2 ways to read and write I/O data.

Use I/O Method to Read and Write Data (Recommended)

The following uses RSLogix 5000 as an example to explain how to use I/O method to read and write I/O data.

Right-click on the EtherNet IP master module and choose "New Module..." as shown below:





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In the pop out module selection window, click on the "+" in front of "Communications" to expand, then select

"ETHERNET-MODULE" and click "OK" as shown below:

lodule	Description	Vendor
	. 10/100 Mbps Ethernet Port on CompactLogix5335E	Allen-Bradley
-1788-EN2DN/A	1788 Ethernet to DeviceNet Linking Device	Allen-Bradley
-1788-ENBT/A	1788 10/100 Mbps Ethernet Bridge, Twisted-Pai	Allen-Bradley
	1788 10/100 Mbps Ethernet Bridge w/Enhanced W	Allen-Bradley
-1794-AENT/A	1794 10/100 Mbps Ethernet Adapter, Twisted-Pa	Allen-Bradley
- 1794-AENT/B	1794 10/100 Mbps Ethernet Adapter, Twisted-Pa	Allen-Bradley
Drivelogix5730 .	. 10/100 Mbps Ethernet Port on DriveLogix5730	Allen-Bradley
- ETHERNET-BRIDGE	Generic EtherNet/IP CIP Bridge	Allen-Bradley
ETHERNET-MODULE	Generic Ethernet Module	Allen-Bradley
-EtherNet/IP	SoftLogix5800 EtherNet/IP	Allen-Bradley
PH-PSSCENA/A	Ethernet Adapter, Twisted-Pair Media	Parker Hannifin Corp.
🕂 Digital		
🛨 Drives		
± HMI		
		1.0
• <u> </u>		<u>.</u>
		Eind Add Favori
Bu Category By V	/endor Favorites	

Set the related information of GS11-EI in the pop out window, as shown below.

Type:	ETHERNET-MODULE Generic Etherne	t Module	coi Th	responding	g number of	f byte R-byte
Parent:	Allen-Bradley master	- Connection Para	inp meters	out, 128-by	te output.	5-0 y t
Name. Description:	Set the name of the added EtherNet IP slave station	Input: Output:	Assembly Instant 102	Size:] (8-bit)] (8-bit)	
Comm <u>F</u> ormat Address / H IP <u>A</u> ddr C <u>H</u> ost Na	t: Data - SINT	<u>C</u> onfiguration: Status Input: I us Output:	103		_] (8-bit)	

The module information that needs to be set in the above figure includes:



GS11-EI Embedded EtherNet/IP Module User Manual

Name: Name the added EtherNet IP slave module (GS11-EI module)

Comm Format: Set the data type. User can choose to set the data type to DINT, INT, SINT, REAL, and so on. This setting cannot be changed after confirmation. If you need to change the data type, you can create a new module. IP Address: Set the IP address of the EtherNet IP Slave module need to be connected, it is also the GS11-EI's IP address.

Connection Parameters: Set the connection parameters used in the communication. For the connection parameters supported by the GS11-EI, see the previous chapter.

Note: The size of "Size" set in the above figure (the number of bytes set) should be consistent with the number of input and output bytes corresponding to the instance described in the previous chapter.

Click "OK" to set the polling interval of the master station in the pop out window. The default is 10ms, as shown below:

■odule Properties:	aster (ETHERHET-BODVLE 1.1)
General Connection Mo	odule Info
Requested Packet Interva	al (RPI): 10.0 + ms (1.0 - 3200.0 ms)
☐ <u>M</u> ajor Fault On Control	ler If Connection Fails While in Run Mode
- Module Fault	
Status: Offline	UK Lancel Apply Help

After setting the master polling interval, click "OK" to save. Double-click "Controller Tags". In the pop out window, click "GS11EI: O", as shown below:





User Manual

🎎 ESLogix 5000 - EIP341L [1756-L55]* - [Contr	ler Tags - EIP341L(controller)]		_ 🗗 🗶
🛃 Eile Edit View Search Logic Communications	ols <u>M</u> indow Help		×
	- & & & E I - QQ		
Offline 🛛 🗸 🗐 RUN	Path: AB_ETHIP-1\192.168.0.147\Backplane\0*	- 8	
No Forces			
No Edits			<u>></u>
Redundancy Mg	Favorites & Add-On & Alarms & Bit & Timer/Counter & Input/O	utput 🔏 Compare 🔏 Compute/Math 🔏 Move/Logical 🔏 File/	vlisc. 🔏 File/Shift 🔏 Sequence
Controller EIP3411	Scope: Material Show STRING ALARM	ALARM ANALOG ALARM DIGITAL AXIS CONSUMED AXIS	GENERIC AXIS GENERIC DRIVE AXIS SERVO AXIS SERVO DRIVE AXIS VI
Controller Tags		Data Tura	
- Controller Fault Handler	Theorem () ()	AD-CTUEDNET MODULE-C-0	
Power-Up Handler		AD.CTUEDNET MODULE.C.U	
E - A MainTask		AD.E I RENNE I_MODULE_SIN I_I	
🖹 🥞 MainProgram	E-CC11EU Data () () Hex	CINT	
Program Tags	Hex USTIELL David) 16000 Hex	SINI	
Unscheduled Programs / Phases	E-CONTRACTOR 16000 Hex	CINT	
- Can Motion Groups			
Ungrouped Axes	Hex GSTTELLO L (1) 16900 Hex	SINT	
Add-Un Instructions	Hex GSTTELLO JUST	SINT	
User-Defined	Hex GSTELLD & KOL	SINI	
🕀 🌆 Strings		SINI	
Add-On-Defined	Hex Hex Hex Hex Hex	SINI	
Hodule-Defined	Hex GSTTELLO J (20) Hex	SINI	
- Trends	Hex CSTTEL: Data[9] 16#00 Hex	SINI	
I/O Configuration	Hex Contraction (10) 16#00 Hex	SINT	
- 1150 Backplane, 1150-Al	E-GS11EI:Data[11] 16#00 Hex	SINT	
- [2] 1756-ENBT/A master	Hex	SINT	
E-S Ethernet	Hex	SINI	
1756-ENBT/A paster	GS11EI:I.Data[14] 16#00 Hex	SINT	
,	GS11EI:I.Data[15] 16#00 Hex	SINT	
	GS11EI:I.Data[16] 16#00 Hex	SINT	
	GS11EI:I.Data[17] 16#00 Hex	SINT	
	Hex Hex	SINT	
Description	GS11EI:I.Data[19] 16#00 Hex	SINT	
Status Offline Module Fault	GS11EI:I.Data[20] 16#00 Hex	SINT	
		SINT	
	Hex (5)11EI:I.Data[22] 16#00 Hex	SINT	
	GS11EI:I.Data[23] 16#00 Hex	SINT	
	GS11EI:I.Data[24] 16#00 Hex	SINT	
	GS11EI:I.Data[25] 16#00 Hex	SINT	
	Innitor Tags / Edit Tags	ICINT	
Ready			

In the figure above, GS11EI:O.Data [0]~GS11EI:O.Data [127] is the corresponding output data address of the

added GS11-EI module in the master station.

Click on "GS11EI: I", as shown below:

& RSLogix 5000 - EIP341L [1756-L55]*		_ @ ×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>Search</u> <u>Logic</u> <u>Communications</u> <u>Tool</u>	.s ¥indow Help	
	- 33.	
Offline 🛛 🗸 🗐 RUN	Path: AB_ETHIP-1\192.168.0.147\Backplane\0" V 🚼	
No Forces		
No Edits		
Redundancy 5-0	Favorites Add-On A Alarms & Bit & Timer/Counter & Input/Output & Compare & Compute/Math & Move/Logical & File/Misc. & File/Shift & Sequence	
Controller EIP341L		2
Controller Tags	Scoge: 🛅 EIP341L 🔄 String, ALARM, ALARM, ALARM_ANALOG, ALARM_DIGITAL, AXIS_CONSUMED, AXIS_GENERIC,	/E
Power-Up Handler	Name △ Value ← Force ← Style Data Type Description	
📄 🖨 🞯 Tasks	GS11ELC (···) (···) AB:ETHERNET MODULE:C0	
HainTask	BGS11EII () () AB:ETHERNET MODULE SINT 1	
Inscheduled Programs / Phases	BS11ELO () () AR ETHERNET MODILLE SINT 1	
- 🔄 Hotion Groups	EGS11EHO Data () Could Decimal SINTI 28	
🗁 Ungrouped Axes		
Add-On Instructions		
Jata lypes	Barterobaldiji o Decital Sini -	
E Grings	BSTERUDAR(2) 0 Decmai STN1	
- Add-On-Defined	tas heru bada(s) u Decmai sini	
🕀 🙀 Fredefined	GS11EI:0.Data(4) 0 Decimal SINT	
H um Module-Defined	GS11EI:0.Data(5) 0 Decimal SINT	
- G I/O Configuration	GS11EI:0.Deta(6) 0 Decimal SINT	
😑 📾 1756 Backplane, 1756-A7	GS11EI:0.Data[7] 0 Decimal SINT	
[0] [0] 1756-L55 EIP341L	GS11EI:0.Data[8] 0 Decimal SINT	
E- 1 [2] 1756-ENBT/A master	GS11EI:0.Data[9] 0 Decimal SINT	
THERNET-MODULE GS11EI	GS11EI:0.Data[10] 0 Decimal SINT	
1756-ENBT/A master	GS11EI:0.Deta[11] 0 Decimal SINT	
83	BS11EI:0.Date[12] 0 Decimal SINT	
	BGS11EI:0.Data(13) 0 Decimal SINT	
	GS11Eh0.Data[14] 0 Decimal SINT	
	+ GS11EF0.Data[15] 0 Decimal SINT	
	T GS11EF0 Data161 0 Decimal SINT	
	CS11EL0 Data 171 D Decimal SNT	
	HIGGIERD David RI 0 Decida SNT	
	Figure 1 (1970) 0 Decima Ont	
	Contraction of the contraction o	
	u usrine.cu.ata(22) U Uecmal SiNi	
	Prissibility Data[23] U Decmai SINT	1
	Monitor Tags & Edit Tags /	1



In the figure above, the 4 bytes corresponding to GS11EI:I.Data [0] is the real time frame header of EtherNet IP slave station.

GS11EI: I.Data[1]~GS11EI: I.Data[127] is the corresponding input data address of the added GS11EI module in the master station.

Use MSG Method to Read and Write Data

The following uses RSLogix 5000 as an example to explain how to use MSG to read and write I/O data.

Read I/O Data

Create a new project and be in "Offline" mode. Add two new tags "ReadTag" and "ReadData" under "Controller Tags", and define the type of "ReadTag" as "MESSAGE" and define the type of "ReadData" as "DINT[500]":



Right-click on "ReadTag" and select "Configure "ReadTag"":



User Manual

Controller Tags	- MyEthernetIP(controller)	
Scope: MyEthernetIP	Show Show All	
Name	△ Value ← Force Mask ← Style	Data Type Description
E Local:1:1	{}	AB:1756_DN
E Local:1:0	{}	AB:1756_DN
+ Local:1:S	()	AB:1756_DN
▶ + ReadTag	Edit "ReadTag"	39169219
── ReadData	Edit "ReadTag" Properties	Alt+Enter]
	Configure "ReadTag"	
	Edit "MESSAGE" Data Type	
	Go to Cross Reference for "ReadTag" Message Path Editor	Ctrl+E
	<u>G</u> o To	Ctrl+G
	Toggle Bit	Ctrl+T
	Force On	
	Force Off	
	Remove Force	
X	Cut	Ctrl+X
<u> </u>	р Сору	Ctrl+C
E	Paste	Ctrl+V
	Paste Pass-Through	
	Delete	Del
	Options	
▲ ↓ \ ∎onitor Tag	s 🖌 Edit Tags /	•

In the new pop-out window, finish the settings as below:

Message Type: CIP Generic

Service Type: select "Get Attribute Single", at this point, the corresponding Service Code becomes to "e (Hex)"

Class:4 (Hex)

Instance:102 (64Bytes), 112 (128Bytes), 122 (256Bytes) can be set.

Attribute:3 (Hex)

Destination: Select the "ReadData" tab. At this point, the read data will be saved in this tab.



User N	lanua	I				
essage (Configu	ration - Rea	adTag			
Configura	tion* Co	mmunication T	ag			
Message]	[ype:	CIP Generic		•		
Service	Get Attribu	ite Single	•	Source Element:	1	Ŧ
Туре:	Gott Kinbo			Source Length:		(Bytes)
Ser <u>v</u> ice	e (H	lex) <u>C</u> lass: 4	(Hex)	Destination	ReadData	+
Instance:	102	Attribute: 3	(Hex)	-	New Tag	1
) Enable	🔵 Enabi	le Waiting 🔵 S	Start	O Done	Done O	

Select the "Communication" tab. In the space after Path, enter the path which corresponding to the connected EtherNet IP slave station. The format of the path is: the EtherNet IP master name, the slot number where the EtherNet IP master resides, and the connected EtherNet IP address. After the path is set up, click "Apply" and "Confirm". As shown below.

In this example, the name of EtherNet IP master is "Master", the EtherNet IP master station is in the slot number "2", and the connected EtherNet IP slave (GS11-EI) has the IP address "192.168.0.10".



User Manual

ath: ENetMaster, 2,	192.168.0.10			Browse
ENetMaster, 2,	192.168.0.10			
-Communication Meth	nod			
€ CIP C D <u>H</u> +	Channel:	🗾 Destin	ation Link: 🛛 🚺	÷
C CIP With Source ID	Source Link: 0	📑 Destin	ation <u>N</u> ode: 0	(Octal)
Connected		ache Connections	*	
Frahla Strahl	e Waiting 🛛 🔘 Sta	art 🔵 Done	Done	0

Add a "MSG" instruction to "MainRoutine" under "MainProgram" and select "ReadTag" as "Message Control", as



This is a simple instruction that can send a read request. In a normal program, some logical commands need to be

added to trigger this instruction. For details on this instruction, refer to RSLogix5000. WWW.SSTAUTOMATION.COM 37



shown below.

GS11-EI Embedded EtherNet/IP Module User Manual

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

Click on "Control Tags" and select "Monitor Tags" to expand "ReadData", as shown below. The data stored at the

starting address ReadData[0] is the data of the user device which is read by the PLC via the gateway GS11-EI.

🔏 BSLogix 5000 - Controller in Controller1. A	CD [1756-L55]*						_ 8 ×
<u>File Edit View Search Logic Communications To</u>	ols <u>M</u> indow Help						
	- £8	6 F 2 2 QQ					
Offline 🛛 🗸 🗐 RUN	Path: AB_ETHIP-1\192.168.0	.147\Backplane\0* 🗸 🗸	品				
No Forces	11673 J.	· · · · · · · · ·					
No Edits	In the provide the second	AND OR XOR SWPB NOT C	CLR BTD			•	
Redundancy 0-0	K ► Favorites & Add-On &	Alarms 🔏 Bit 🔏 Timer/Counter	K Input/Output	Compare 🔏 Comput	e/Math 🔪 Move/Logical 🖌 File/Misc. 🔏	File/Shift K Sequer	
	Controller Ters - Co	ntroller (controller)					
Controller Tags		Change Lot 12					
Controller Fault Handler	Scope: Controller	Show All					
Power-Up Handler	Name	🛆 Value 💉 Force	 Style 	Data Type	Description		
E Tasks	- ReadData	() (.) Hex	DINT[500]			
MainFrogram	+ ReadData[0]	16#0000_0000	Hex	DINT			
- Program Tags	⊞ ReadData[1]	16#0000_0000	Hex	DINT			
MainRoutine	🗄 🕀 ReadData[2]	16#0000_0000	Hex	DINT			
Unscheduled Frograms / Phases	E ReadData[3]	16#0000_0000	Hex	DINT			
Ungrouped Axes	🗄 ReadData[4]	16#0000_0000	Hex	DINT			
- Add-On Instructions	readData(5)	16#0000_0000	Hex	DINT			
🕀 🔄 Data Types	TReadData[6]	16#0000_0000	Hex	DINT			
The Strings	⊞ ReadData[7]	16#0000_0000	Hex	DINT			
Add-On-Defined	+ ReadData[8]	16#0000 0000	Hex	DINT			
🕀 🚂 Predefined	E ReadData[9]	16#0000_0000	Hex	DINT			
H	E ReadData[10]	16#0000 0000	Hex	DINT			
E 🖨 I/O Configuration	E BeadData[11]	16#0000 0000	Hex	DINT			
🖻 😅 1756 Backplane, 1756-A7	E:BeadData[12]	16#0000 0000	Hex	DINT			
[0] [0] 1756-L55 Controller	±:BeadData[13]	16#0000 0000	Hex	DINT			
H- 1 [2] 1756-ENBT/A Master	T:BeadData[14]	16#0000_0000	Hex	DINT			
	E:BeadData[15]	16#0000 0000	Hex	DINT			
	±:BeadData[16]	16#0000 0000	Hex	DINT			
	F:BeadData[17]	16#0000_0000	Hex	DINT			
	T BeadData[18]	16#0000_0000	Hey	DINT			
	E BeadData[19]	16#0000_0000	Hev	DINT			
-	H ReadData[20]	16#0000_0000	Hey	DINT			
	H ReadData[21]	16#0000_0000	Hey	DINT			
	H BeadData[22]	16#0000_0000	Hey	DINT			
	TreadData[22]	16#0000_0000	Lou	DINT			
	E rieadData[23]	1640000_0000	Han	DINT			
	HineadData[24]	1640000_0000	Hex	DINT			
	theadData[25]	16#0000_0000	riex Use	DINT			
	HeadUata[26]	1090000_0000	rtex				
	Monitor lags A	suit lags /					

Write I/O Data

Go to the "Offline" mode, add two new tags "WriteTag" and "WriteData" under "Controller Tags", and define the type of "WriteTag" as "MESSAGE", also the type of "WriteData" as "DINT[500]":



User Manual

Name: WriteTag DK Description: Image: Cancel Hap Image: Cancel Hap Hap Description: Image: Usage: Image: Image: Image: Type: Base Image: Image: Jata Eor: Image: Image: Image: Stope: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Stope: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Imag	New Tag				×	Hew Tag					×
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Hebp Hebp Lage: romab Type: Base Data Type: Data Type: Data Type: Data Type: Stope: Controller Stope: Controler Stope: <	Description:		A] Cano	el	Description:			-	Cancel	
Usage: Crosseds Type: Base Type: Base Obal Type: Diversion Style: Image: Style: Image: Other Loss Style: Other Loss Style: Image: Image: Style: Image: Image: Image: Image: Image: Style: Image: Image: Image: Ima				Hel						Halo	
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Usage: normab Type: Base Type: Base Immediation: Alias Eo: Data Type:			*	1 ₈			3		T		
Type: Base Alas Eor: Data Lype: Stope: Controller Stope: Stope: Stope: Stope: Stope: <td><u>U</u>sage:</td> <td><normal></normal></td> <td>-</td> <td>]</td> <td></td> <td><u>U</u>sage:</td> <td><normal></normal></td> <td></td> <td>Ŧ</td> <td></td> <td></td>	<u>U</u> sage:	<normal></normal>	-]		<u>U</u> sage:	<normal></normal>		Ŧ		
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Dela Lype DNT(50) Scope: Controller Style: Example Con]	 			Finds Lon	J		<u> </u>		
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<pre>st soon</pre>					3		-				
Controller Controller Controler Contro	t <u>Y</u> iew <u>S</u> earch Logic	c <u>C</u> ommunications <u>T</u> ool	s <u>M</u> indow Help								
Controller Fault Radier Image: Controller Fault Radier Faxe: Usalier Name: Controller Face: Style: Data Type: Description Fax: Statustice Histati (income) Statustice Force: Style: Data Type: Description Data Type: Type: Tage: Description Histati (income) Data Type: Descrisite (income) Histati (incom				TABACKPlane\0"	SIZE CPS	ura I ComudaMath I i	Avent overal D. Eile Miler	(Electric Common) C Equip		
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Go to the "Monitor Tags" page, input some data into the address writeData[0] under "WriteData" tab. The data will be sent out by the PLC to the GS11-EI first, then to the user device by using the configured write command.

User Manual

E-ReadData	a	{}	{}	Hex	DINT[500]	
E-ReadTag	8	{}	{}		MESSAGE	
^E ⁺WriteData	L	{}	{}	Hex	DINT[500]	
🗄 Writh 📝	New Tag		Ctr	1+W	MESSAGE	
	Edit "WriteTag" Edit "WriteTag" Pro	perties	Alt	+Enter		
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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-out window, finish the settings as below:

Message Type: CIP Generic

Service Type: select "Get Attribute Single", at this point, the corresponding Service Code becomes to "10(Hex)"

Class:4 (Hex)

Instance:101 (64Bytes), 111 (128Bytes), 121 (256Bytes) can be set

Attribute:3 (Hex)

Source Element: Select the "WriteData" tab. It represents the data used in the "WriteData" tab as PLC output data.

Source Length: With the unit of byte, this value should be less than or equal to the number of bytes represented by

the currently selected instance.

Destination: Select the "ReadData" tab. At this point, the read data will be saved in this tab.

User Manual

Message <u>Type</u> : CIP Generic	
Service Type: Set Attribute Single Service Code: 10 (Hex) Class: 4 (Hex) Instance: 101 Attribute: 3 (Hex)	Source Element: WriteData Source Length: 128 Destination Image: Comparison
) Enable) Enable Waiting) Start) Error Code: Extended Error rror rror	⊙ Done Done O ☐ Timed Ou ←

Select the "Communication" tab. In the space after Path, enter the path which corresponding to the connected EtherNet IP slave station. The format of the path is: the EtherNet IP master name, the slot number where the EtherNet IP master resides, and the connected EtherNet IP address. After the path is set up, click "Apply" and "Confirm". As shown below.

D-4. ENetMaster 2.19	2162010		Browse
ENetMaster 2 19	2 168 0 10		<u>D</u> 104456
- Communication Method CIP C D <u>H</u> + C CIP <u>W</u> ith Source ID	d Shannel: Source Link: 0	Destination Link:	0 🕂 0 🚍 (Octal)
Connected	🔽 Cach <u>e</u> C	Connections 🗧 🗧	
	Waising 🙈 Csuus	🔾 Done – Done	0

In this example, the EtherNet IP master station name is "Master", the EtherNet IP master station is in the slot

number "2", and the connected EtherNet IP slave (GS11-EI) has the IP address "192.168.0.10". The IP address of





the GS11-EI is downloaded to the module via software SST-EIP-CFG.

Add a "MSG" instruction to "MainRoutine" under "MainProgram" and select "WriteTag" as "Message Control",

as shown below.

🎉 RSLogix 5000 - MyEnetIP_proj in ENB30xMI_M	ISG_128byte.ACD [1756-L55]
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Download the PLC program to the PLC and put the PLC into the "Online" state. The data in "WriteData" will be sent to the user device via the GS11-EI (EtherNet IP Slave station) by the PLC module.

