Embedded EtherNet/IP Module EIP-341L

User Manual REV 2.0

RevA



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User Manual

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1. Product Overview

1.1 Product Function

EIP-341L is an embedded EtherNet/IP module that enables user devices to communicate via a UART serial interface, facilitating connection between the EtherNet/IP protocol and the user device.

1.2 Product Features

- Allows users to easily upgrade to EtherNet/IP via a serial interface
- Supports one EtherNet/IP connection
- Comes with dedicated configuration software for easy setup
- Optional feature to configure the module's IP address via the serial port

1.3 Technical Specifications

- [1] Supports the EtherNet/IP communication protocol and follows ODVA standards.
- [2] EIP-341L provides one Ethernet port and one UART interface (included in the 20-pin connector) to convert data between EtherNet/IP and serial.
- [3] Ethernet 10/100M (auto-negotiating).
- [4] The size of input and output buffers can be set by users:
 - Maximum input buffer size: 256 bytes.
 - Maximum output buffer size: 256 bytes.
- [5] Functions as an EtherNet/IP Adapter (Server) device on the Ethernet side and can only support one EtherNet/IP Scanner (Client) connection at a time. The minimum data transmit rate is 5ms.



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- [6] Serial interface parameters:
 - ♦ UART.
 - Operation mode: Half duplex.
 - ♦ Data Bits: 8.
 - ♦ Stop Bits: 1.
 - Parity: None.
- [7] Baud Rate: Supports 2400, 4800, 9600, 19200, 38400, 57600, 115200, and 230400 bps options.
- [8] Serial port uses a pre-defined UART message protocol that is easy to use for serial communication.
- [9] Power supply: +3.3VDC (3.14 ~ 3.45V), 190mA.
- [10] Working temperature: -40°F~185°F (-40°C~85°C), humidity: 5% ~ 90%.
- [11] Dimensions (L x W x H): 1.46 in x 0.89 in x 0.95 in (37.2mm x 22.6mm x 24.2mm).



2. Hardware Description

2.1 Product Appearance



Note: This picture is for reference only. Product appearance is subject to the actual product.

2.2 LED Indicator

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-position RJ-45 interface, follows IEEE802.3u 100BASE-T standard, with 10/100M autonegotiation. The pin definitions are as follows:

Pin	Signal Name	Signal Description
Pin 1	TXD+	Transmit Data+
Pin 2	TXD-	Transmit Data-
Pin 3	RXD+	Receive Data+
Pin 6	RXD-	Receive Data-
Pin 4,5,7,8	BID	Keep (reserved)

2.3.2 Host Interface

EIP-341L has a 20-pin socket connector (needle-type), including power interface, UART interface, SPI interface, and GPIO. The pin position and definition are as follows:



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Pin	Signals	Description
1	SPI_CLK	Clock Signal
2	SPI_MISO	Master Device Data Input, Slave Device Data Output
3	SPI_MOSI	Master Device Data Output, Slave Device Data Input
4	SPI_NSS	Chip Select Signal
5~6	NC	No Pin
7	RXD	UART Receive (Input), connected to the User Board processor's TXD
8	TXD	UART Transmit (Output), connected to the User Board processor's RXD
9	GPIO	Reserved
		The status of EIP-341L (Output), which needs a $10k\Omega$ pull-up resistor on the user board.
10	RUN	Logic 1 (light on): The EIP-341L module on the startup.
		Logic 0 (light off): The module's startup has been completed. (Include waiting for 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	- UART Baud Rate Setting (Input): See the table below for detailed configuration.
13	BAUD0	
14	RESET	Reset Signal (Input): Active low
15	+3.3V	Connect to DC power supply +3.3V
16	GND	Connect to Power Ground

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		EIP-341L Embedde User Man	d EtherNet/IP Module ual
	17~19	NC	Reserved
-	20	DATAEXCH	Data Exchange Status (Output). Requires 10K pull-up resistor on user board. Logic 1: Module in non-data exchange state (e.g., startup, waiting for initialization, starting
			EtherNet/IP stack); Logic 0: Module ready and in data exchange state.

2.4 UART Baud Rate

UART baud rate settings:				
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 SPI Rate (Under Development)

SPI functionality is under development and will be released subsequently.

2.6 Reset Signal

EIP-341L 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. Communication Protocol

3.1 Description

EIP-341L acts as an EtherNet/IP adapter at the Ethernet side, and communicates with a user-defined protocol over UART at the serial port side. The EtherNet/IP communication and UART communication are completely independent. The data exchange can be finished through the internal input and output data buffer of EIP-341L. According to the EIP-341Lserial communication protocol, the user board can complete the input and output data exchange.

The procedure of message transmission is as follows:



3.2 EIP-341L Initialization Flowchart

The IP Address for the EIP-341L module can be initialized by using UART or the EIP-123 PC configuration software. The flowcharts in this chapter show the steps for the two kinds of IP configuration modes. Users can choose either one of them according to their application needs. Before choosing flowchart, please refer to the "How to Set the Module's IP Address"

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section in Chapter 6.5.4 to set the IP configuration mode. The factory default for the EIP-341Lmodule is set to PC configuration with DHCP.

Initialization flow chart for using the serial port (UART) method:

Initialization flow chart for using the PC configuration software method:







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3.3 Real-time IP Monitoring

If the EIP-341L module is set to DHCP, then the module will monitor its IP address while it is running. If the IP address changes, it will pull up the /DATAEXCH pin to logic 1. The EIP-341L module's action after this will depend on the IP configuration mode:

1. When using the configuration software IP address setting mode: The module will obtain an IP address again. The user will need to read //DATAEXCH pin state. If it returns to logic 0, this indicates that the module has obtained IP address and that the module is ready to communicate.

2. When using the UART IP address setting mode: The module will wait for the user to send the IP Address Initialization request message. The next step will be the same as with the first initialization.

3.4 Initialization Communication

Communication Method: The user board initiates communication; the EIP-341L module responds passively.

Baud Rate Setting: The EIP-341L determines the UART baud rate at startup by reading the state of pins BAUD0~BAUD2.

1.Initialization Request Message (User Board -> Module): Sent when choosing to use the UART to set the IP address and other information. Before sending this message, you must use EIP-123 (Background Parameter Configuration section) to set the "Obtain IP Address Method" to "Use UART Settings". After successful configuration download, you must send the correct initialization message to the UART to start the Ethernet interface. This message must be sent after every module reset or restart. The input/output byte lengths for the EtherNet/IP side still need to be set via EIP-123 Initialization Request Message Format (20 bytes):



Byte	EtherNet/IP Description	
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hich includes byte. High- ign the IP
n byte. High-
sign the IP
ign the IP
sign the IP
-

*Note:

When setting the EIP-341L module via UART to use DHCP to assign the IP address, the user board should first send the IP Address Initialization message through UART (the value of Byte 2 must be set to 1).

If the EIP-341L module does not receive an IP address from the DHCP Server on the network, it will send 0x2E to the user board each second.

If the DHCP Server assigns an IP address to the EIP-341L module, then the EIP-341L will send a message which contains the IP address, the subnet mask, and the default gateway to the user board.

For example: The EIP-341L sends the following message to the user board: 0C C0 A8 00 BB FF FF FF 00 C0 A8 00 01 95.

The 0x0C is the header and indicates that the message is 12 bytes long. It is followed by 4 bytes for the IP Address (192.168.0.187), 4 bytes for the Subnet Mask (255.255.255.0), 4 bytes for the Default Gateway (192.168.0.1), and the last byte represents the checksum.



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When setting the EIP-341L module IP address via UART to use a static configuration, the user board should send the IP Address Initialization message through UART (the value of Byte 2 must be set to 0),

For example: The user board sends the following message to the EIP-341L: 00 11 00 00 C0 A8 00 0A FF FF FF 00 C0 A8 00 01 00 00 00 E9.

The 0x0011 is the header and indicates that the message is 17 bytes long. It is followed by 4 bytes for the I P Address (192.168.0.10), 4 bytes for the Subnet Mask (255.255.255.0), 4 bytes for the Default Gateway (192.168.0.1), 3 bytes for the reserved data (0x000000), and the last byte represents the checksum.

and then the module will send the following message to the user board.

2. Initialization Response Message (EIP-341L module -> User board):

Byte	Successful Response	Error Response
0	Data Length: 2	Data Length: 2
1	0	Error Code: (not 0)
2	0	Extra Error Code
3	Check Sum: 0x02	Check Sum: Byte 0+byte 1+byte 2

Note: Extra error code is always 0xFF

3. Response Message Error Codes:

Index	Error Code	Explanation
0	1	Check Sum Error
1	2	Data Length Error
2	3	IP configuration mode does not exist.

Example UART Exchange (Static IP Config)::



3.5 Custom Protocol Communication

Communication Method: The user board initiates communication; the EIP-341L module responds passively.

This protocol includes input data in the request message and output data in the response message, enabling data exchange.



1. Custom Protocol Request Message (User Board -> Module)

Byte	Description
0	Message Length (Bytes): This length includes all following bytes except the check sum byte. High-
	byte first.
1	The size of the message length must match the number of Input bytes of the largest Assembly Instance
	configured in Chapter 6.5.4. The default size is 256 bytes.
2	
•••	Input data: High-byte first.
n	
n+1	Check Sum: Byte 0+byte 1++byte n
2. Custo	om Protocol Response Message (Module -> User Board)

Byte	Successful Response	Byte	Error Response
0	Message Length (Bytes): Includes all following bytes	0	0x80

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	<i>EIP-341L</i> Embedded EtherNet/IP Module		
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1	except the check sum byte. High-byte first.	1	Data Length: 2
2	_	2	Error Code
	Output Data: High-byte first.	3	Extra Error Code
n		5	
n+1	Check Sum: Byte 0+byte 1++byte n	4	Check Sum: Byte 0+byte 1+byte 2+byte3

Note: Extra error code is always 0xFF.

3. Error Codes:

Index	Error Code	Description
0	1	Check Sum Error
1	2	Data Length Error

3.6 Restore Default IP Address

When the module's IP setting mode is configured via PC software and the module's IP address cannot be confirmed, connect Pin 10/RUN to ground through a 1K pull-down resistor to pull it low before the module starts up or resets. After startup, open a browser and enter 192.168.0.11, then click "Load Factory Defaults"—this will restore the gateway IP address to the fixed 192.168.0.11.

← → C ☆ ▲	192.168.0.11			
Enter User ID and Password: User ID Login	Password			
Enter User ID and Passw	vord:]		
User ID Login Reset to factory default	ok!!			

Before the module starts up or resets, connect Pin 10/RUN and Pin 20/DATAEXCH to low level through a 10K pull-up resistor. After startup, set the IP address of the computer connected to the module to a fixed IP 192.168.0.X. Then, scan for the module's IP address (192.168.0.11) using software EIP-123 and configure it.



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Search Equipment	No.	Name	Module	IP Address	MAC Address	Firmware Version	Password
IP Search							
Configuration							
Advanced Configuration							
IP Address Report							
	Nev	N	Open		Save		Exit





4. Dimensions

Unit: [mm]



Front:







Side:



PCB dimensions:







5. Evaluation Board

5.1 Appearance





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5.2 Functions

5.2.1 RS485 Interface

The EV board uses a three-pin pluggable terminal for RS-485:

PIN	Function
1	D+, RS485 Data Positive
2	D-, RS485 Data Negative
3	GND

5.2.2 TYPE-C Interface

- ① Supports power supply via Type-C alone.
- ② Supports serial communication and can be used as a communication port.

5.2.3 Serial Switching Jumper

The interface switching jumper is located in the middle of the evaluation board; users can switch USB TYPE-C communication or serial communication according to actual needs.

1. When the jumper is connected to the middle two pins and the left two pins, the evaluation board uses USB TYPE-C for communication.



2. When the jumper is connected to the middle two pins and the right two pins, the evaluation board uses RS-485 for communication.



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5.2.4 Baud Rate Setting Switch

The 3-position DIP switch below the evaluation board is used to set the serial port baud rate, as shown in the figure below:



The displayed baud rate in the figure above is 115200bps. The correspondence of baud rates is as follows:

Index	Pos 1 (High/BAUD2)	Pos 2 (Mid/BAUD1)	Pos 3 (Low/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



5.2.5 Mode Selection Switch



The left side of the DIP switch is the mode switching switch. When this bit is "ON", the 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

5.2.6 Reset Button

The button on the development board is the reset button, used to manually reset the EIP-341L module. Useful for applying changes (like mode or baud rate) without power cycling.

5.2.7 LED Indicators

There are five indicators on the evaluation board, and the description is as follows:

Index	Name	COLOR	Description
0	Power	Orange	Steady On: Power Applied; Off: No Power.
1	TX	Green	Flashing: UART Transmitting Data; Off: UART Idle.
2	RX	Green	Flashing: UART Receiving Data; Off: UART Idle.
3	Run	Green	Steady On: Module in Running State; Off: Module in Startup State.
4	DataExch	Green	Steady On: Module in Data Exchange State; Off: Module in Non-Data Exchange State.



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5.3 Wiring

Take USB power supply and serial communication as an example, the wiring is shown in the figure.



Note: Ensure UART Interface Selection Jumper connects Left and Middle pins.



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6. Configuration Software

Download the configuration software EIP-123 from the Shanghai Sibotech website. After installation, EIP-123 can be used to configure the EIP-341L module.

System Requirements:

- 1GHz processor or higher PC.
- ♦ Windows® 7 / Windows® 10 / Windows® 11.

6.1 EIP-123 Introduction

EIP-123 is Windows-based software for configuring EIP-341L parameters. The main interface after launching EIP-123 is shown below:

Search Equipment	No.	Name	Module	IP Address	MAC Address	Firmware Version	Password
IP Search							
Configuration							
Advanced Configuration							
IP Address Report							
	Nev	v	Open		Save		Exit

6.2 Search Device

To configure the EIP-341L, first search for the target module by clicking the Search Device button in EIP-123. All networked EIP-341L modules will be listed automatically:



User Man	ual						
Search Equipment	No. 1	Name Ethemet/IP	Module EIP-341L	IP Address 192.168.0.11	MAC Address 64-ea-c5-27-06-b4	Firmware Version 2.1	Password None
IP Search							
Configuration							
Advanced Configuration							

6.3 Designated IP Search

To search for devices with a known IP address, click Designated IP Search, enter the IP address, and confirm:

	Sea	arch Equipme	ent by IP		×		
		192 .	168 . 0	. 11			
[]	No.	OK.	Module	Cancel	MACAddress	Firmware Version	Password
Search Equipment	1	Ethemet/IP	EIP-341L	192.168.0.11	64-ea-c5-27-06-b4	2.1	None
IP Search							
Configuration							
Advanced Configuration							
IP Address Report							
	Ne	w	Open		Save		Exit

6.4 Configuration

The Configuration window is used to set user parameters relating to the EIP-341L module's Ethernet settings. The IP address can be set through DHCP or static configuration (to set the IP address through UART, the "Setting the IP address via host interface(UART)" option must be enabled through the Advanced Configuration window. See Chapter 6.5). The EIP-341L module supports setting a user password to protect the configuration data from being modified.



In the Configuration interface, users can configure the following options: Ethernet, Password, and IP Address Report.

To open the Configuration window, select the device to be configured in the main window and click the "Configuration" button.

Search Equipment	No. 1	Name Ethernet/IP	Module EIP-341L	IP Address 192.168.0.11	MAC Address 64-ea-c5-27-06-b4	Firmware Version 2.1	Password None
IP Search							
Configuration							
Advanced Configuration							
IP Address Report							
	N	ew	Open		Save		Exit



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6.4.1 Ethernet

Ethernet Parameters:

IP Mode	DHCP ~	~
ress	192 . 168 . 0 . 15	
Mask	255 , 255 , 255 , 0	
Gateway	192 . 168 . 0 . 1	
	0.0.0.0	
	0.0.0.0	
	IP Mode ress Mask Gateway	IP Mode DHCP ress 192 168 0 15 Mask 255 255 255 0 Gateway 192 168 0 1 0 0 0 0 0

- Assign IP 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 network.
- DNS1: Currently not supported.
- DNS2: Currently not supported.



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6.4.2 Password

Password Setup:

ingulation			^
Ethernet Passw	ord IP Address Report		
Notice: The pas	sword length cannot be more	than 20!	
	2010-00-000	9 4	
	User Password		
	Confirm Password		

• User Password: Refers to the password that the user needs to enter when clicking the "Configuration" button on the main screen. Once the user password is set, the user needs to enter this password every time when configuring EIP-123 for user parameters. It is recommended not to set this password, as this password is for users.

6.4.3 IP Address Report Parameters

IP Address Report:



The IP Address Report function is used to identify the EIP-341L on the network by sending a UDP packet that reports its current IP address, subnet mask, and default gateway to a port of the specified IP address device. Users can enable this function by clicking on the "Enable" check box in the IP Address Report tab of the Configuration window.

Conf	iguration					
		192 . 168	. 0 . 100	1.	16800	
	Auto Report Period	10	5		(1-65535)	
	Auto hepoir i ellou	(1-7200)				

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After this function is enabled, the user will need to set the following parameters:

- Auto Report To: Set the IP address and Port Number of the remote device.
- Auto Report Period: Set the Auto Report Period to the remote device.

For detailed instructions on how to use the IP Search Function, see Chapter 6.3.

6.5 Advanced Configuration

The Advanced Configuration window is used to set the EIP-341L module settings such as UART IP address configuration, EtherNet/IP assembly instance data sizes, and device identification parameters. The EIP-341L module supports setting an administrator password to protect the advanced configuration data from being modified.

In the Advanced Configuration interface, users can configure the following options: Ethernet, Password, IP Address Report, and Advanced Parameters.

To open the Advanced Configuration window, select the device to be configured in the main window and click the "Advanced Configuration" button.

Search Equipment	No. 1	Name Ethernet/IP	Module EIP-341L	IP Address 192.168.0.11	MAC Address 64-ea-c5-27-06-b4	Firmware Version 2.1	Password None
IP Search							
Configuration							
Advanced Configuration							
IP Address Report							
	N	ew	Open		Save		Exit



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6.5.1 Ethernet

Ethernet Parameters:

han 20! Ethemet/IP
Ethemet/IP
DHCP
192 . 168 . 0 . 15
255 , 255 , 255 , 0
192 . 168 . 0 . 1
0.0.0.0
0.0.0.0

• Network Name: The name is used to identify the EIP-341L module on the network, it can also be the name of the device's model.

- Assign IP 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 network.
- DNS1: Currently not supported.
- DNS2: Currently not supported.

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6.5.2 Password

Password Setup:

	uration	
emet Passwo	ord IP Address Report Advanced Parameters	
otice: The pass	word length cannot be more than 20!	
	User Password	
	Confirm Password	
	Admin Password	
	Confirm Password	

• User Password: Refers to the password that the user needs to enter when clicking the "Configuration" button on the main screen. After the user password is set, the user needs to enter this password when configuring EIP-123 for user parameters. It is recommended not to set this password, as this password is for 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 EIP-123 for advanced parameters. It is recommended that the administrator set this password after the product setup is complete since it protects the advanced parameters from being modified by other users.



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6.5.3 IP Address Report Parameters

IP Address Report:

The IP Address Report function is used to identify the EIP-341L on the network by sending a UDP packet that reports its current IP address, subnet mask, and default gateway to a port of the specified IP address device. Users can enable this function by clicking on the "Enable" check box in the IP Address Report tab of the Advanced Configuration window.

Configuration				
Enable Auto Report To Auto Report Period	192 . 168 . 10 (1-7200)	0 . 100 s	16800 (1-65535)	

After this function is enabled, the user will need to set the following parameters:

- Auto Report To: Set the IP address and Port Number of the remote device.
- Auto Report Period: Set the Auto Report Period to the remote device.

For detailed instructions on how to use the IP Search Function, see Chapter 6.6.



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6.5.4 Advanced Parameters

Advanced Parameters:

ernet Password	IP Address R	eport Advance	ed Parameters		
How to Set the Mod	lule's IP Addr	ess			
Setting the IP	address via s	oftware			
O Setting the IP	address via tł	ne host interface	(UART)		
Ethemet/IP Connec	tion Paramet	ers (0~256)			
Assembly Instance	e		Assembly Instance	100	10.000
TUZ (input).	64	+4(bytes)	112 (input).	128	+4(bytes)
101 (Output):	64	(bytes)	111 (Output):	128	(bytes)
103(Configuration): 0	(bytes)	113(Configuration):	0	(bytes)
Assembly Instance					
122 (Input):	256	+4(bytes)			
121 (Output):	256	(bytes)			
	-				
123(Configuration): 0	(bytes)			
Ethemet/IP Equipm	ent Paramete	rs			
		(1~65535)	ProdCode:	2035	(1~65535)

How to Set the Module's IP Address:

- Setting the IP address via software EIP-123: The users use the SiboTech software to configure network parameters (user parameter configuration).
- Setting the IP address via host interface (UART): The user board sets the IP address and other parameters through UART. The user board sets parameters such as the IP address by sending an initialization request message. See Chapter 3.4.



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EtherNet/IP Connection Parameters:

• The EIP-341L supports 3 sets of EtherNet/IP assembly instances. Each set of assembly instances has an input and output. The number of input and output bytes can be any value from 0 to 256 bytes. (All three sets of assembly instances will share the same memory buffer and will store the same data).

Note: The size of the message length for the Request Messages sent through UART in Chapter 3.5 must match the number of Input bytes of the largest Assembly Instance.

EtherNet/IP Equipment Parameters:

.

• Supports changing VendCode and ProdCode.

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7. Operation, Maintenance, and Precautions

- Protect the module from heavy pressure to prevent damage to the panel.
- Protect the module from impacts, which may damage internal components.
- Keep the power supply voltage within the range specified in the manual to prevent the module from burning out.
- Protect the module from water ingress, as water entry may affect normal operation.
- Before powering on, check the wiring for incorrect connections or short circuits.

8. Copyright

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The product has many applications. The users must make sure that all operations and results are in accordance with the safety of relevant fields, and the safety includes laws, rules, codes and standards.





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9. Revision History

Date	Revision	Description
2025-6-13	ALL	New release



10. Related Products

Other related products of our company include:

PNE-422, CPD-521, GS20-PN, etc.

If you want to get more information about these products, please visit SiboTech website: https://www.sibotech.net.



Appendix: How to Read and Write I/O Data

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

Implicit I/O Messaging Connection Method (Recommended)

The following Studio 5000 Logix example will show how to connect using Implicit I/O Messaging.

First, right click on the EtherNet/IP scanner module and click "New Module", as shown below:



In the pop-up dialog box, search for "GENERIC ETHERNET", choose "ETHERNET-MODULE", and click

"Create" as shown below:

0.51								-
GEN	NERIC ETHERNET		lear	Filter	5		Hide Filters	*
	Module Type Category Filters		^		Module Type Ve	ndor Filters		^
	20 - Comm-ER				Advanced Energ	y Industries, Inc.		
\checkmark	Analog				Cognex Corporat	ion		
\checkmark	CIP Motion Safety Track Sect	ion			Dialight			
\square	Communication		~		Endress+Hauser			~
<		>		<			>	
Cat	alog Number	Description				Vendor	Category	
	ETHERNET-BRIDGE	Generic EtherNet/IP CIP	Brid	ge		Rockwell Autom	Communication	
	ETHERNET-MODULE	Generic Ethernet Module				Rockwell Autom	Communication	
	ETHERNET-SAFETY-STAN	Generic EtherNet/IP Saf	ety a	nd Sta	andard Module	Rockwell Autom	Safety,Other	
2 -4	712 Module Types Found						Add to Favor	ites

Configure relevant information of EIP-341L in the pop-up window, as shown below:

Type: Vendor: Par <mark>en</mark> t:	ETHERNET-MODULE Generic Etheme Rockwell Automation/Allen-Bradley ENET	Set Com	munication	on Parameters.
Name: Description:	SiboGateway Set the device name.	Input:	Assembly Instance: 112	124 (32bit) 123 (32bit)
Comm Format:	Data - DINT V	Configuration:	113	10 (8-bit)
Address / H IP Addre	ss: 192 . 168 . 0 . 10	Status Input:		
O Host Nar	ne:	Status Output:		

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

Name:	The name of the added EtherNet/IP device module.
Comm Format:	Configure data types such as DINT, INT, SINT, REAL and etc. After confirmation, this cannot be changed. To change data types, a new module must be created.
IP Address:	Set the IP address of the EtherNet IP adapter module need to be connected, it is also the EIP-341L's IP address.
Connection Parameters: Set the connection	parameters used in the communication. For the connection parameters supported by the EIP-341L, see the previous chapter
Note: "Size" (configured bytes) output bytes of the instance	in the image above should be the consistent with relevant input and e in the above chapter.



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

General	Connection*	Module Info			
Reques	sted Packet Inte	erval (RPI):	10.0 🜩 ms	(1.0 - 3200.0 ms)	
🗌 Inhi	bit Module				
🗌 Maj	or Fault On Con	troller <mark>If</mark> Conne	ction Fails While	in Run Mode	
	Universit Course		No. ID		
	Unicast Conne	ction over Eth	ernet/IP		
Mode	lo Esult	ction over Eth	envet/1P		
Modu	ile Fault	ction over Eth	envet/iP		
Modu	ile Fault	ction over Eth	envet/iP		
Modu	ile Fault	ction over Eth	envet/iP		
Modu	ile Fault	ction over Eth	ervet/iP		

After setting this interval, click "OK" to save.

User Manual

To view the output data, first double click the "Controller Tags" tree. Then expand the "SiboGateway:O" tag as

shown below:

+ SiboGateway:C	{}	{}	-	AB:ETHERNET	
+ SiboGateway:	{}	{}		AB:ETHERNET	
- SiboGateway:0	{}	{}		AB:ETHERNET	
- SiboGateway:O.Data	{}	{}	Hex 🗸	DINT[32]	
+ SiboGateway:0.Data[0]	16#0000_0000		Hex	DINT	
+ SiboGateway:0.Data[1]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[2]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[3]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[4]	16#0000_0000		Hex	DINT	
+ SiboGateway:0.Data[5]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[6]	16#0000_0000		Hex	DINT	
+ SiboGateway:0.Data[7]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[8]	16#0000_0000		Hex	DINT	
+ SiboGateway O.Data[9]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[10]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[11]	16#0000_0000		Hex	DINT	
+ SiboGateway:0.Data[12]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[13]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[14]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[15]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[16]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[17]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[18]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[19]	16#0000_0000		Hex	DINT	
+ SiboGateway:O.Data[20]	16#0000_0000		Hex	DINT	
+ SiboGateway.O.Data[21]	16#0000_0000		Hex	DINT	
+ SiboGateway:0.Data[22]	16#0000_0000		Hex	DINT	
+ SiboGateway:0.Data[23]	16#0000_0000		Hex	DINT	
+ ShoGateway O Data[24]	1640000 0000		Hex	DINT	

The SiboGateway:O data tag represents the corresponding output data addresses of the SiboTech Gateway.

User Manual

To view the input data, expand the "SiboGateway: I" tag as shown below:

- SiboGateway:I.Data	{}	{}	Hex 🗸	DINT[33]	
+ SiboGateway:I.Data[U]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[1]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[2]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[3]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[4]	16#0000_0000		Hex	DINT	
+ SiboGateway:1.Data[5]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[6]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[7]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[8]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[9]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[10]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[11]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[12]	16#0000_0000		Hex	DINT	
+ SiboGateway:1.Data[13]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[14]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[15]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[16]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[17]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[18]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[19]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[20]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[21]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[22]	16#0000_0000		Hex	DINT	
+ SiboGateway:I.Data[23]	16#0000_0000		Hex	DINT	
+ SiboGateway Data[24]	16#0000.0000		Hey	DINT	

The SiboGateway: I data tag represents the corresponding input data addresses of the SiboTech Gateway.

Please note that the first 4 input bytes are used to display the status bytes of the SiboTech Gateway.

Explicit MSG Connection Method

The following Studio 5000 Logix example will describe how to read/write EtherNet/IP data using explicit MSG messaging.

Read MSG Instruction Block

To start, create a new project in "Offline" mode. Then under "Controller Tags", add two new tags named

"ReadTag" and "ReadData" as shown below:

User Manual



Set the data type of "ReadTag" as "MESSAGE":

Name:	ReadTag		Create 💌
Description:		~	Cancel
			Help
		~	
Usage:	<controller></controller>	~	
Type:	Base ~	Connection	
Alias For:		~	
Data Type:	MESSAGE		
Parameter Connection:		~	
Scope:	Controller	~	
External Access:	Read/Write	~	
Style:		\sim	
Constant			
Sequencin	g		

	÷.					
MESSAGE	8		 			OK
MESSAGE					^	Cancel
MINIMUM_	CAPTUR	RE				
MODULE					3	Help
MOTION O	GROUP			- 1		
MOTION_I	NSTRUC	TION				
MOVING_/	AVERAG	E				
	STD_DE	V			~	
MOVING_9	VED					
	ensions					
MOVING_S MILLITELE Array Dim Dim 2	ensions	Dim 1	Dim 0			

User Manual

Set the data type of "ReadData" as "SINT", then set the Array Dimension "Dim 0" to match the Input Data Size.

×

OK Cancel Help

Nume.	ReadData		Cleale						
Description:		^	Cancel	Select Data	a Type				
			Help	Data Type:	s:				
		~		SINT[496]	1				
Jsage:	<controller></controller>	~		SINT					
Гуре:	Base V Cor	nection		SPLIT_RA	NGE				
Nias For:		~		STRING	16				
Data Type:	SINT[496]			THRS_EN	HANCE	D			
Parameter Connection:		~				U CTATIC	M		
Scop <mark>e</mark> :	Controller	~		Array Dim	nensions	-			
External	Read/Write	~		Dim 2		Dim 1		Dim 0	
vccess: Style:	Hex	~		0	*	0	-	496	-
Constant				Show D	ata Typ	es by Grou	ips		
Sequencin	Ig								





RUN							
Energy Storage			* # 1 < H = 1	+ + + + + + + + + + + + + + + + + + +	(L)-		0
I I/O Offline I - No Forc	es P., No Edits	et.	Redundancy	(1756 ENRT 5 001)	ty Atarms Bit Tim	ancounter inpusouput	Compare C
02	Same Ta Controller	nuoner(o	Show Al Teer	(1736-ENDI 5.001)			
Controller Controller	Scope. Excontroller	•	Show, Ne ruga	and a series		1	
Controller Tags	Name	2	S A Value Force Mask	 Style 	Data Type	Description	Constan
Controller Fault Handler	ReadTag	0.	f 1	Christia	MESSAGE		
Power-Up Handler	ReadData	× 1	ten log	Curt	SINT[500]		
lasks		E	dit "ReadTag"				
 L MainProgram 			dit "ReadTag" Properties	Alt+Enter			
Unscheduled		(Configure "ReadTag"	Ctrl+I			
Motion Groups		E	dit "MESSAGE" Data Type				
Assets		E	dit 'ReadTag' Description	Ctrl+D			
he Logical Model			So to Cross Reference for "ReadTag"	Ctrl+E			
I/O Configuration			So to First Destructive Reference for 'ReadTag	Ctrl+Shift+E			
I/30 Backplane, 1/30-A10 10 101 1756-L71 Controller		(So to Next Destructive Reference for "				
(1) 1756-ENBT/A ENET		F	filter on "MESSAGE"				
aa chemer		c	50 To	Ctrl+G			
		1	oggle Bit	Ctrl+T			
		F	force On				
		F	Force Off				
		F	Remove Force				
		* 0	Eut	Ctrl+X			
		D	Copy	Ctrl+C			
		61 F	Paste	Ctrl+V			
		ş	Paste Pass-Through				
)elete	Delete			
		F	ind All "ReadTag"				
		E	xpand All "ReadTag" Members	Ctrl+Plus			
			ollapse All "ReadTap" Members	Constraints of			

Right click on "ReadTag", select "Configure "ReadTag" as shown below:

In pop-up window, configure the following settings:

Message Type:	CIP Generic.
Service Type:	Select "Get Attribute Single". The relevant service code will become "e (Hex)".
Class:	4 (Hex)
Instance:	112
Attribute:	3 (Hex)
Destination:	Select the "ReadData" tag. The obtained data will be saved in this tag.

User Manual

Message Ty Service C Service Code: Instance:	ype: Get Attribu e (H 112	CIP Generi tte Single ex) Class: Attribute:	ic 4 (Hex) 3 (Hex)	Source Element: Source Length: Destination Element:	0 0 ReadData New Tag	(Bytes)
Service Code: Code	e (H	ex) Class: Attribute:	 4 (Hex) 3 (Hex) 	Source Element: Source Length: Destination Element:	0 \$ ReadData New Tag	(Bytes)
Service (Code: Instance:	e (H	ex) Class: Attribute:	4 (Hex) 3 (Hex)	Source Length: Destination Element:	0 ¢ ReadData New Tag	(Bytes)
Code:	e (H	ex) Class: Attribute:	4 (Hex) 3 (Hex)	Destination Element:	ReadData New Tag	
Instance:	112	Attribute:	3 (Hex)	Dement:	New Tag	
) Enable) Error Code:	O Enable	e Waiting Extende	⊖ Start ed Error Code:	O Done	Done Length: 0	
rror <mark>Pa</mark> th: mor Text:						



Select the "Communication" tab and click the "Browse" button. Then input the network path to connect to the EIP-341L.

Enter the network path in the following format:

[EtherNet/IP Interface Name], 2 (Ethernet Communication), [EIP-341L IP Address]

Then click "OK" to confirm:

coningeneutor	1 dg	_
Path	ENET, 2, 192.168.0.10 Browse	
🔿 Broad	Message Path Browser	<
Communi	Path: ENET,2,192.168.0.10	
() CIP	ENET, 2, 192.168.0.10	
	E 🔛 1/0 Configuration	(Octal)
Conr	⊡-	inection
) Enable	OK Cancel Help	
) Enable) Error Code irror Path: El irror Text:	OK Cancel Help : Extended Error Code: Timed Out VET, 2, 192.168.0.10	

Add a "MSG" command and select "ReadTag" as "Message Control" in the "MainRoutine" of "MainProgram" as shown in the image below. This is a simple command which can send a read request. The user still needs to add some logic commands to trigger this command in common program. For further details, please refer to Studio 5000 Logix reference material.

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

File Edit View Search Logic Communications	Tools Window Help							
15 🖴 🔛 🖶 🔺 🕮 🙃 🦻 🔍 🔛	v 🕈 🗘 .	🎮 📴 🏡 🗋 🗞 📩	CC 166 C2 C2					
UN CK Energy Sorage U0 Offline	▶_ No Edits	 ♣ ▲ 8 ♣ Redundancy Ⅰ·종 Ⅰ·종 	Favorites Add-On Alarms Bit Timer/Counter	Input/Output Compare Compute/Math Move/Logical	File/Misc. File/Shift Se			
Controller Organizer 🗾 👻 🔻 🛪	🥏 Controller Tags - Controlle	ler(controller) 📙 MainProgram - I	MainRoutine ×					
d "I	Q Q 10 15 17 13	E no Pa e (e)						
▲ Controller Controller Controller Tags Controller Tags Controller Fault Handler ■ Controller Fault Handler ■ Controller Fault Handler ■ Controller Tault Handler	0 -	TimerScan.DN				TON Timer Preset Accum	TimerScan 100+ 0+	Â
Uluscheduled Median Groups Median Groups Goodsatta Goodsatta Goodsatta Dig 11 1756-171 Centralier Dig 11 1756-171 Centralier Jin 11 11 11 11 11 11 11 11 11 11 11 11 11	1 -	TimerScan.DN				MSG Message Control	ReadTag (EN) (DN) (ER)	
	(End)							

Click "Control Tags" and select "Monitor Tags". Expand "ReadData" to see that PLC can read Modbus TCP data through the EIP-341L gateway.



Write MSG Instruction Block

Switch to "Offline" mode and add two new tags "WriteTag" and WriteData", under the "Controller Tags". Define the type of "WriteTag" as "MESSAGE" and "WriteData" as "SINT[500]" as shown below:



Set the data type of "WriteTag" as "MESSAGE":

Name:	WriteTag	Create 👻		
Description:	^	Cancel	Select Data Type	
		Help	Data Types:	
	~		MESSAGE	ОК
Usage:	<controller></controller>		MESSAGE	Cancel
Туре:	Base ~ Connection		MINIMUM_CAPTURE MMC	Hole
Alias For:	~		MODULE	neip
Data Type:	MESSAGE			
Parameter Connection:	~			
Scope:	Controller ~		Array Dimensions	
External Access:	Read/Write ~		Dim 2 Dim 1 Dim 0	
Style:	~			
Constant			Show Data Types by Groups	
Sequencin	g			

Set the data type of "WriteData" as "SINT", then set the Array Dimension "Dim 0" to match the Output Data Size.

User Manual

Name:	WriteData		Create
Description:		~	Cancel
			Help
	2	~	
Usage:	<controller></controller>	~	
Type:	Base ~	Connection	
Alias For:		~	
Data Type:	SINT[492]		
Parameter Connection:		~	
Scope:	Controller	~	
External Access:	Read/Write	~	
Style:	Hex	~	
Constant			
Sequencir	ng		

Jaca Type	3:						
SINT[492]							ОК
SINT						~	Cancel
SPLIT_RA	NGE						
STRING							Help
STRING_1	16						
STRING_3	32						
THRS_EN	HANCE	D					
TIMER					1		
TOTALIZE	R					~	
Array Dim	ensions		NI CONTRACTOR				
Dim 2		Dim 1		Dim 0			
DHUZ			1.4.1		1.4.1		

File Edit View Search Logic Communications	Tools Window Help						
10 🖆 🔛 🖶 🗶 🗗 🏦 🤊 🤆 📃	م* م* ~	🏓 📴 ha 🗈 🖪 🖄		12			
RUN Path: <none></none>	No Edite	옥 뮵 B		-+/(U)(L)- Alarms Bit Timer/Count	er Input/Output Comp	are Compute/Math	Move/Logical File/Misc.
Controller Organizer	Controller Tags - Controll		Reagram MainPoutine				
ð 1	Scoge: Controller	Show: All Tags	n rogram - Mannoottine				✓ Enter Name
Controller Controller	Name	=≡ ▲ Value	 Force Mask 	 Style 	Data Type	Description	Constant
Controller Fault Handler	▶ TimerScan		{}	{}	TIMER		
Power-Up Handler	▶ ReadTag		{}	{}	MESSAGE		
🔺 📹 Tasks	ReadData		{}	{} Decimal	SINT[496]		
A Main lask	▶ WriteTag		{}	{}	MESSAGE		
Parameters and Local Tags	WriteData		{}	{} Decimal	SINT[492]		
 Unscheduled Imotion Groups Assets Logical Model VIC Configuration IT756 Backplane, 1756-A10 I[0] 1756-L71 Controller I[1] 1756-BK7/A ENET Ethernet 	∢ ➤ \ Monitor Tags √Edit	t Tags /			¢		

Enter into the "Monitor Tags" interface and input some data in the "WriteData" tag. This data will be outputted to EIP-341L through PLC. As shown in the image below, 0x10, 0x20, 0x30, 0x40, 0x50, 0x60, 0x70, 0x80 and 0x90 are the data that will be outputted.

pe: 🖸 Controller 🗸 🗸	Show: All Ta	ags				
Name		Value 🔶	Force Mask 🗧 🗧	Style	Data Type	Description
TimerScan		{}	{}		TIMER	
▶ ReadTag		{}	{}		MESSAGE	
ReadData		{}	{}	Hex	SINT[496]	
♦ WriteTag		{}	{}		MESSAGE	
▲ WriteData		{}	{}	Hex	SINT[492]	
WriteData[0]		16#10		Hex	SINT	
WriteData[1]		16#20		Hex	SINT	
WriteData[2]		16#30		Hex	SINT	
WriteData[3]		16#40		Hex	SINT	
WriteData[4]		16#50		Hex	SINT	
WriteData[5]		16#60		Hex	SINT	
WriteData[6]		16#70		Hex	SINT	
WriteData[7]		16#80		Hex	SINT	
WriteData[8]		16#90		Hex	SINT	
WriteData[9]		✓ 16#00		Hex	SINT	
WriteData[10]		16#00		Hex	SINT	

User Manual

Right click "WriteTag" and select "Configure "WriteTag" as shown below:

Name		=≡ ▲ Value	+	Force Mask	+	Style	Data Type
ReadTag			{}		{}		MESSAGE
ReadData			{}		{}	Hex	SINT[500]
> TimerScan			{}		{}		TIMER
> WriteTag	0	NewTan	1 1			1.14	MESSAGE
▶ WriteData	~	New Tag			Cu	1+ 1	SINT[500]
		Edit "WriteTag"					
		Edit "WriteTag" Propertie	15		Alt+E	Inter	
		Edit "MESSAGE" Data Tvo	ie.				
		Edit "WriteTag" Descripti	on		Ct	rl+D	
		Go to Cross Reference fo	or "WriteTag"		C	trl+E	
		Go to First Destructive R	eference for *	WriteTag*	Ctrl+Sh	ift+E	
		Go to Next Destructive R	eference for '	*			
		Filter on "MESSAGE"					
		Go To			Ct	rl+G	
		Toggle Bit			C	trl+T	
		Force On					
		Force Off					
		Remove Force					
	Ж	Cut Ctrl+X				trl+X	
	ŋ	Сору			Ct	trl+C	
	£	Paste			CI	trl+V	
		Paste Pass-Through					
		Delete			D	elete	
		Find All "WriteTag"					
		Expand All "WriteTag" M	embers		Ctrl+	Plus	

User Manual

In the new pop-up window, configure the following settings:

Message Type:	CIP Generic
Service Type:	Select "Set Attribute Single", and the relevant Service Code will become "10 (Hex)"
Class:	4 (Hex)
Instance:	111
Attribute:	3 (Hex)
Source Element:	Select "WriteData" tag, indicating that the data in the "WriteData" tag will become the data PLC outputs.
Source Length:	Use byte as unit, and this value should be less than or equal to the currently selecting bytes which instance represents (Configured bytes number in EIP-123).

× Message Configuration - WriteTag Configuration* Communication Tag Message Type: **CIP** Generic \sim Service Set Attribute Single ~ Source Element: WriteData V Type: Source Length: + (Bytes) 492 Service (Hex) 10 (Hex) Class: 4 Destination Code: × Element: Instance: 111 Attribute: 3 (Hex) New Tag... O Enable O Enable Waiting O Start O Done Done Length: 0 O Error Code: Extended Error Code: Timed Out 🕈 Error Path: Error Text: OK Cancel Apply Help

Select the "Communication" tab and click the "Browse" button. Then input the network path to connect to the EIP-341L.

Enter the network path in the following format:

[EtherNet/IP Interface Name], 2 (Ethernet Communication), [EIP-341L IP Address]

Then click "OK" to confirm:

comgalation	Communication Tag	
Path:	ENET, 2, 192.168.0.10 Browse.	
Broad	Message Path Browser X	
Communi	Path: ENET, 2, 192.168.0.10	-
CIP	ENET, 2, 192.168.0.10	1
CIP V Sourd		(Octal)
	0°	
) Enable	OK Cancel Help	

Add a "MSG" command in the "MainRoutine" of "MainProgram" and select "WriteTag" as "Message Control" as shown below.Download the PLC program to the PLC and set PLC to "Online" state,. The data in "WriteData" will be outputted to Modbus TCP master or server through EIP-341L.

File Edit View Search Logic Communications	Tools Window Help		
12 🖆 🗎 🖶 🗶 🗊 🙃 🤊 🤆 📃	~ *p	5 🔎 📴 🖕 Ca 🐘 👘 🖓 📽 🖓 🖤	
RUN DK DK Energy Storage IO Offline No Forces	▶. No Edits	年書 8 (→ 一 一 一 一 ・ + ++ +> +> +> +> +> +> +> +> +> +> +> +	
Controller Organizer 👻 🕂 🗙	🧳 Controller Tags - Col	troller(controller) 🚦 Module Properties: Local:1 (1756-ENBT 5.001) 📋 MainProgram - MainRoutine 🗙	,
() ⁰		a 🗄 📴 🚾 🛤 👞 👘 🚥	
Controller Controller Controller Controller Tags Controller Tags Controller Tags Controller Fault Handler Power-Up Handler Controller Controll	0	PLC read-data command	TON TimerScan EN> ^ Preset 100• ON> ^ N> ^ Accum 0• 0• 0 <td< td=""></td<>
OParameters and Local Tags MainRoutine Unscheduled Motion Groups Assess Logical Model GOG Groupstion	т. –	TimerScan.DN	MSG Message Control ReadTag(EN)
▲	2	TimerScan.DN	MSG Message Control WriteTag [] -(EN)(DN)
	(End)		