ET-2200 Series Ethernet I/O Modules User Manual

Ethernet I/O Module Ver. 1.8, Sep. 2024

WARRANTY

All products manufactured by ICP DAS are warranted against defective materials for a period of one year from the date of delivery to the original purchaser.

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REVISION HISTORY

The table below shows the revision history.

Revision	Date	Description				
	Aug. 2024	Add Section 6.4.5, 6.4.6 Modbus Register for				
		(P)ET-2224CIS/2228CIS/2224CI/2228CI				
	Jul. 2024	Add product models: (P)ET-2224P/2228P				
		Add product models: (P)ET-2215H, (P)ET-2215H-16,				
		(P)ET-2218H/S1, (P)ET-2218H-16/S1, (P)ET-2224CI/2228CI,				
		(P)ET-2224CIS/2228CIS, (P)ET-2242U-32.				
		1. Revise Section 2.1 Appearance, 2.2 Specification,				
		2.5 Dimensions				
		2. Add Section 4.4.3 AI Configuration-				
1.8		(B) RTD Input, (C) Thermocouple Input				
	May. 2024	3. Add Section 4.4.4 AI Calibration-				
	IVIAY. 2024	(B) RTD Input, (C) Thermocouple Input				
		4. Add Section 4.16.5 –AI Example				
		5. Add Modbus Register Table				
		Section 6.4.1 for (P)ET-2215H, (P)ET-2215H-16				
		Section 6.4.4 for (P)ET-2218H/S1, (P)ET-2218H-16/S1				
		6. Add Type Code Table				
		Section 6.6 RTD				
		Section 6.7 Thermocouple				
	Mar. 2024	♦ Section 6.4.1, (P)ET-2217 Modbus Register - (Addr. 00833)				
	Sep. 2023	1. Revise Section 3.2, 3.3				
		2. Add Section 4.4.4 AI - Calibration				
4.7		3. Add Section 4.4.8 AO - Calibration				
1.7		4. Add Section 4.16.2 ~ 4.16.4, MQTTX and DI/DO Examples				
		5. Revise Chapter 5 I/O Pair Connection Applications				
		6. Add Section 5.5.3 Example of Using Memory AIO				
		7. Revise Appendix A.1 How Can I Factoy Reset the Module?				

Revision	Date	Description
	Mar. 2023	 Revise Section 6.4.1. The sampling rate of PET-2217 in fast mode is 200 Hz, and in normal mode is 20 Hz. Revise Section 2.2. Modify the URL of the data sheet Revise Section 6.4.2. The address 31000-31109 and 41000- 41109 has been modified to 34097-34206 and 44097-44206
	Jan. 2023	♦ Revise the hardware information in Chapter 2
	Dec. 2022	 Revise Sections 4.7, 5.1 to 5.4 Add Section 5.5 Shared Memory
	Nov. 2022	♦ Add Section 4.17 SNMP
1.6.0	Sep. 2022	♦ Add the model ET-2217 (The AI module)
	Jun. 2022	♦ Add the model ET-2224/ ET-2228 (The AO module)
	Apr. 2002	♦ Revise Sections 2.2, 2.3, 2.4, and 2.6, add new models
	Jan. 2022	 Add Modbus addresses in Section 6.4 Add Section 6.5 Analog Input Type and Data Format Table
	Nov. 2021	♦ Support MQTT protocol
	Oct. 2021	♦ Add Section 1.3 Application
	Sep. 2021	 Add the information about ET-2217CI/ 2217CI-4 Add Chapter 6.4 Modbus Register (AIO) Add Appendix A.2 ~ A.4
1.5.0	Jun. 2020	♦ Modify the official website-related links.
1.4.0	Sep. 2019	♦ Add the information on the MQTT function.
1.3.0	Jun. 2018	♦ Add the hardware information about the ET-2261-16.
1.2.0	Jul. 2017	 Add the software and hardware information about the ET-2242U and ET-2255U. Updated the information about the Firmware Version v1.4.6 [Jun.16, 2017] in Chapter 4 Web Configuration. Add Appendix A: Troubleshooting and Revision History.
1.1.3Feb. 20161. Add the software and hardware information a ET-2254P, ET-2261 and ET-2268. 2. Revise the information about the Firmware Vertex		 Add the software and hardware information about the ET-2254P, ET-2261 and ET-2268. Revise the information about the Firmware Version v1.3.9 [Jan.20, 2016] in Chapter 4 Web Configuration.
1.1.0	Nov. 2015	♦ Add the software and hardware information about the ET-2242, ET-2251 and ET-2255.
1.0.0	Sep. 2015	♦ Initial issue

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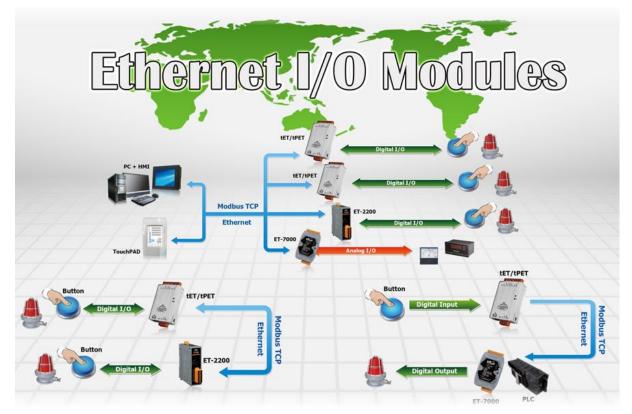
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1. Introduction



The ET-2200 series modules, an IP-based Ethernet I/O module, feature a built-in web server that allows configuration, I/O monitoring, and I/O control by simply using a regular web browser. In addition, the ET-2200 also supports Modbus TCP/UDP protocol that makes perfect integration to SCADA software.

1.1 Packing List

The shipping package includes the following items:







If any of these items are missing or damaged, please contact the local distributor for more information. Save the shipping materials and cartons in case you need to ship the module in the future.

ET-2200 Module x 1

Quick Start x 1

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1.2 Features

Built-in Web Server

The ET-2200 series module has a built-in web server that allows users to easily configure, monitor, and control the module from a remote location using a web browser.

I bit att Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Monitor | Change Password | Logout DUDO Image: Sectings | PWM | Pair Connection | Filter | Password | Filter | Password | Filter | Password | Filter | Password | PWM | Pair | Password | PWM | Pair | PWM | PW

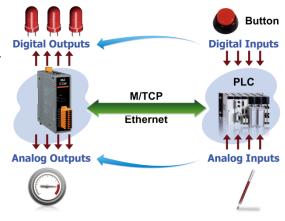
> Modbus TCP/UDP, MQTT, or SNMP Protocols

The Modbus TCP and Modbus UDP slave functions on

the Ethernet port can be used to provide data to remote SCADA software. All DI/DO modules and some AI/AO modules support MQTT and SNMP V2c protocols.

I/O Pair Connection (Push and Pull)

This function is used to create a DI to DO pair through the Ethernet. Once the configuration is completed, the ET-2200 module can continuously pull the status of the remote DI device using the Modbus TCP protocol and then write to local DO channels in the background.



Slim-Type Housing

The ET-2200 modules are slim-type housing with about 3.3 cm in width. Compared with the palm-size module that has about 7 cm in width, more slim-type ET-2200 modules can be installed on the same DIN-Rail space.



Built-in Multi-function I/O

The **DO** modules support these functions:

- **Power-on Value:** On boot up, the DO value will be set to the Power-on value.
- Safe Value:

If Modbus TCP communication is lost for a specific period, the DO value will be set to the userdefined safe value.

• A PWM (Pulse-Width Modulation) Function:

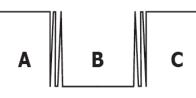
Each of DO channel can be set to a different frequency (100 Hz Max.) and duty cycle, also work either independently or simultaneously. The term "High Duty Cycle" describes the duration of 'ON' time in proportion to the regular interval or 'period' of time. Similarly, the term "Low Duty Cycle" corresponds to the duration of the 'OFF' time. Consequently, it is not necessary to keep switching from ON to OFF from remote a controller. In this way, the module reduces the complexity required for the control system and enhances timing accuracy.

<u>Note:</u> Because of the characteristics of the relay functions, it is recommended that the PWM on modules with relay functions is not used for extended periods.

The **DI** modules support these functions:

- Can be Used as a 32-bit High Speed Counter
- High/Low Latched Status Commands:

The modules provide commands to read the status of any digital input channels that are latched high or latched low. The following is an example that shows the usefulness of the latched digital input. If we wish to read a key stroke from a key switch connected to the digital input channel of a module, the input signal of the key stroke is a pulse signal as shown in the figure.



If we just use the read digital input status command to read the signal and we cannot send the command during the B period due to some reasons, then we will lose the key stroke information. However, with the read latched digital input command, we can still get the key stroke information even we are not able to send command in B period.

• Frequency Measurement:

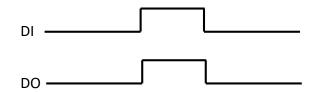
This function can be used to retrieve the digital input counter value at specific times and calculates the frequency. Rather than polling via a remote host, the module can determine the frequency directly, reducing the communication delay caused by two ends and also improves the accuracy of the frequency measurement. In order to applying for more applications, this module provides 3 scan modes and 4 moving average methods for user to select the best way in their applications.

> DIO Synchronization (Mirror Local DI to DO):

The module also provide a DIO synchronization function. The DIO synchronization is divided into three modes: **Level Sync, Rising Active,** and **Falling Active**.

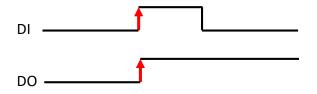
Level Sync (DO = DI) Mode:

The synchronization operation in DI and DO.



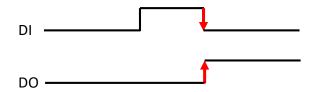
Rising Active (DO = ON) Mode:

When the specified DI state is from OFF to ON, the corresponding DO will be set to ON.



Falling Active (DO = ON) Mode:

When the specified DI state is from ON to OFF, the corresponding DO will be set to ON.



Built-in Dual Watchdog

The Dual Watchdog consists of a CPU Watchdog (for hardware functions) and a Host Watchdog (for software functions).

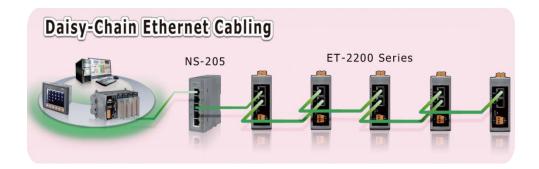
<u>**CPU Watchdog**</u> automatically resets itself when the built-in firmware runs abnormally.

<u>Host Watchdog</u> set the digital output with a predefined safe value when there is no communication between the module and host (PC or PLC) over a while (Watchdog timeout).



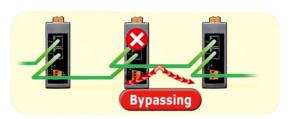
Daisy-chain Ethernet Cabling

The ET-2200 has a built-in two-port Ethernet switch to implement daisy-chain topology. The cabling is much easier and the total costs of cable and switch are significantly reduced.



> LAN Bypass

LAN Bypass feature guarantees Ethernet communication. It will automatically be active to continue the network traffic when the ET-2200 loses its power.

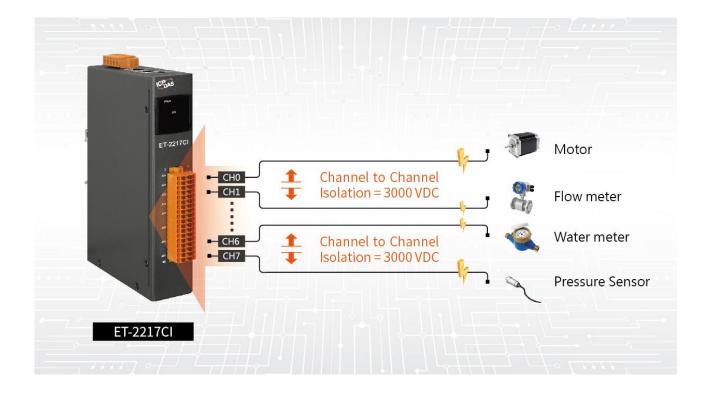


> Highly Reliable Under Harsh Environment

- Wide Operating Temperature Range: -25 ~ +75°C
- Storage Temperature: -40 ~ +80°C
- Humidity 10 ~ 90% RH (Non-condensing)



1.3 Application



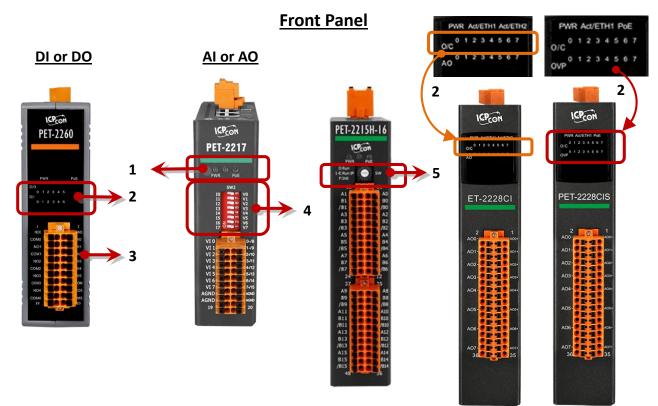
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2. Hardware Information

2.1 Appearance

The components of the ET-2200 module include LED indicators, pluggable terminal blocks for I/O or power input, an operating mode switch, and Ethernet ports.



Al or AO



- 1 PWR / PoE LED Indicator
- 2 I/O Indicator
- 3 I/O Connector
- 4 DIP Switch
- 5 Rotary Switch

1) PWR or PoE LED Indicator

Once power is supplied to the ET-2200 series module, the PWR LED indicator will illuminate.

Note: PoE (Power-over-Ethernet) indicator is only available for the PET-2000 series modules

2) I/O Indicator

Some modules provide I/O indicators, which light up when the status is ON. For (P)ET-2218H/S1, (P)ET-2218H-16/S1 series, the "H/A" LED lights up when the measured temperature exceeds the maximum value of the specified range or if the channel is disconnected. If the temperature is lower than the minimum value, the "L/A" LED lights up. For example, Type M, -200 to 100 °C.

For (P)ET-2224CI/2228CI and (P)ET-2224CIS/2228CIS, the "O/C" indicator is used for open wire detection. The LED will light up if the current output channel is disconnected.

For (P)ET-2224CIS/(P)ET-2228CIS series, the "OVP" LED lights up when the over-value protection is triggered. Refer to Section 4.2.4 OVP (Over-value Protection) Mechanism

3) I/O Connector

The pin assignments for the I/O connector on the ET-2200 series module differ based on the model. For more information about pin assignments, refer to Section 2.3 "Pin Assignments".

4) DIP Switch

The DIP switch of the (P)ET-2217 and (P)ET-2217H can be used to set I/O channels as voltage or current inputs.

5) Rotary Switch

The rotary switch of the (P)ET-2215H, (P)ET-2215H-16, (P)ET-2218H/S1, (P)ET-2218H-16/S1, (P)ET-2224CI, (P)ET-2228CI, (P)ET-2224P, and (P)ET-2228P can be used to set the operating mode.

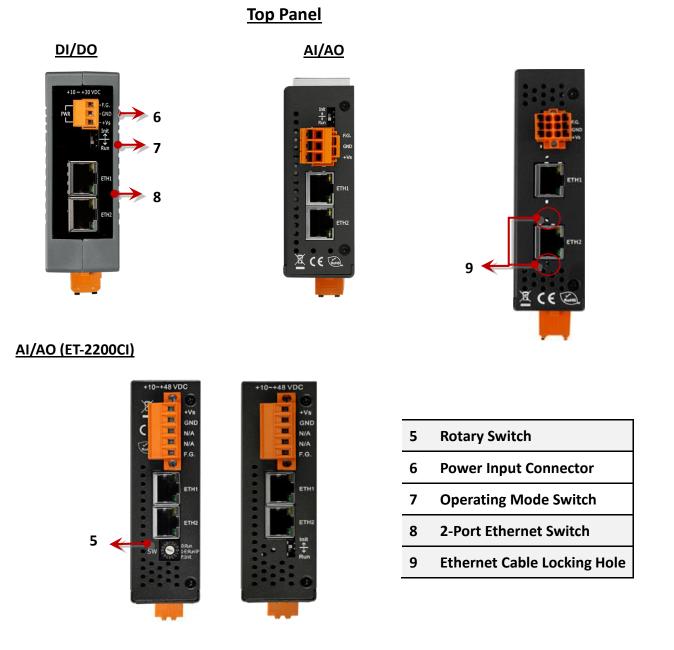
Run Mode:

0 : User specified IP or DHCP

1-E : Default IP, 192.168.255.1 ~ 14

Init Mode:

F : Factory default, Firmware Update



6) DC Power Input Connector

The power input connector on the ET-2200 series module differs in pin assignments base on the model. For more information about pin assignments, refer to Section 2.3 "Pin Assignments"

DC Power Input:

All ET-2200 series modules include "(**R**)+Vs" and "(**B**)**GND**" pins and are powered by a DC power supply. The valid power voltage range is from +10 to +30 VDC or +10 to +48 VDC. (Refer to Section 2.2.1)

Frame Ground (F.G.):

In continental climate zones, electronic circuits are susceptible to electrostatic discharge (ESD). The ET-2200 series modules adopt a new frame grounding design to provide an ESD discharge path, thus preventing static electricity and environmental interference from directly affecting the hardware. This improvement ensures enhanced protection against ESD (Electrostatic Discharge), making the module more reliable.

7) Operating Mode Switch

Init mode:

For firmware update or troubleshooting. The factory presets will be loaded.

<u>Run mode</u>:

For normal operation. The user-defined configuration will be loaded. The factory default is set to "Run". Refer to Section 3.1 "Configuring the Boot Mode" for more information.

8) 2-Port Ethernet Switch

The (P)ET-2200 series modules are equipped with two RJ-45 10/100 Base-TX Ethernet switch ports. When an Ethernet link is detected and an Ethernet packet is received, the **Green LED** indicator will be illuminated. While the **Yellow LED** indicator is used for the PoE module.

9) Ethernet Cable Locking Hole

The (P)ET-2215H and (P)ET-2215H-16 series include the locking holes for the Ethernet cable to prevent accidental loosening.



2.2 Specification

Product Page

The user can enter the model in the search bar on the website (https://www.icpdas.com/) to find out the product page.

← → C 😁 https://www	.icpdas.com/?Lang=US	* 💿 🗅 💌
(ICP DAS	ET-2217 Q Tag Module: ET-2217 Info: Ethernet I/O Module with 2-port Ethernet Switch, 8/16-ch Al (PoHS)	 CORPORATE CONTACT US
	(RoHS)	

ET-2200 Selection Guide:

https://www.icpdas.com/en/product/guide+Remote_I_O_Module_and_Unit+Ethernet_I_O __Modules+ET-2200#2724

	Introduction		Se	Selection Guide		thernet I/O Compariso	on Table	
Available soon > Will be phased out >						it 🕨 Pha	sed oı	
Analog Input Modules								
			Al			Protocol		
Model		Channels	Sampling Rate	Voltage & Current Input	Sensor Input	Channel to Channel Isolation	мотт	SNM V2c
T-2217CI-4 ►	-	4	10/200Hz,	±1 V, ±2.5 V, ±5 V,		Yes	Yes	
T-2217CI new	-	8	for each channel	±10 V,±20 mA,	-	res	tes	-
<u>T-2217</u> ►	<u>PET-2217</u> ►	8/16	20/200Hz	± 150 mV, ± 500 mV, ± 1 V, ± 2.5 V, ± 5 V, ± 10 V, ± 20 mA, 0 ~ +20 mA, +4 ~ +20 mA	-	-	Yes	

Also, click the "Data Sheet" icon on the product page to find out the information on Dimensions, Pin Assignments, and Wire Connections.



Data Sheet:

The following table lists the URL of the data sheet for the relevant models.

Model	File Name					
www.icpdas.com/web/product/download/io_and_unit/ethernet/et2200/document/data_sheet/						
Analog Input Modules						
ET-2217, PET-2217	(P)ET-2217_en.pdf					
ЕТ-2217Н, РЕТ-2217Н	(P)ET-2217H_en.pdf					
ET-2217CI-4, ET-2217CI	ET-2217CI-4_ET-2217CI_en.pdf					
ET-2215H, PET-2215H, ET-2215H-16, PET-2215H-16	(P)ET-2215H_(P)ET-2215H-16_en.pdf					
ET-2218H/S1, PET-2218H/S1, ET-2218H-16/S1, PET-2218H-16/S1	(P)ET-2218H(-16)_S1_en.pdf					
Analog Output Modules						
ET-2224, PET-2224, ET-2228, PET-2228	(P)ET-2224_(P)ET-2228_en.pdf					
ET-2224P, PET-2224P, ET-2228P, PET-2228P	(P)ET-2224P_(P)ET-2228P_en.pdf					
ET-2224CI, PET-2224CI, ET-2228CI, PET-2228CI	(P)ET-2224CI_(P)ET-2228CI_en.pdf					
ET-2224CIS, PET-2224CIS, ET-2228CIS, PET-2228CIS	(P)ET-2224CIS_(P)ET-2228CIS_en.pdf					
Digital I/O Modules						
ET-2242, PET-2242	(P)ET-2242_en.pdf					
ET-2242U, ET-2242U-32, PET-2242U-32	ET-2242U_(P)ET-2242U-32_en.pdf					
ET-2251, PET-2251, ET-2251-32, PET-2251-32	(P)ET-2251_(P)ET-2251-32_en.pdf					
ET-2254, PET-2254, ET-2254P, PET-2254P	(P)ET-2254_(P)ET-2254P_en.pdf					
ET-2255, PET-2255, ET-2255-32, PET-2255-32	(P)ET-2255_(P)ET-2255-32_en.pdf					
ET-2255U, PET-2255U	(P)ET-2255U_en.pdf					
Relay Output/Digital Input Modules						
ET-2260, PET-2260	(P)ET-2260_en.pdf					
ET-2261, PET-2261	(P)ET-2261_en.pdf					
ET-2261-16	ET-2261-16_en.pdf					
ET-2268	ET-2268_en.pdf					

2.3 **Wiring Connections**

The user can find out the Wire Connections diagram for each model in the data sheet on the website.

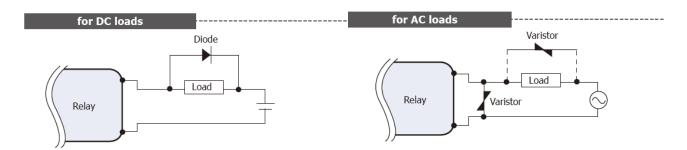
Wire Connections

Relay Output	ON State Readback as 1	OFF State Readback as 0
Form A Relay in NO1, NO3, NO4, NO7	AC/DC COMx	$\begin{array}{c c} \hline Load \\ \hline AC/DC \times \\ \hline \Box \end{array} \end{array} \begin{array}{c c} \hline D \\ \hline \Box \\ \hline COMx \\ \hline COMx \\ \hline \end{array}$
Form C Relay in NO0, NO2, NO4, NO6	× Load1 □ □ NCx AC/DC □ □ COMx ↓ Load2 □ □ NOx	← Load1 AC/DC × Load2 B H NCx COMx NOx



Note for the ET-2260/2261/2261-16/2268:

When inductive loads are connected to the relays, a large counter-electromotive force may occur when the relay actuates because of the energy stored in the load. These flyback voltages can severely damage the relay contacts and greatly shorten the relay life. To achieve circuit protection and control flyback voltages in your inductive load, install a flyback diode for DC loads or a metal oxide varistor for AC loads.



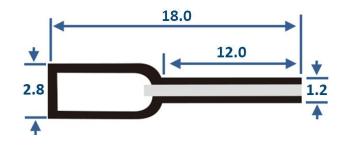
Varistor Selection:

Operating Voltage	Varistor Voltage	Max. Peak Current	
100 ~ 120 V _{AC}	240 ~ 270 V _{AC}	> 1000 A	
200 ~ 240 V _{AC}	440 ~ 470 V _{AC}	> 1000 A	

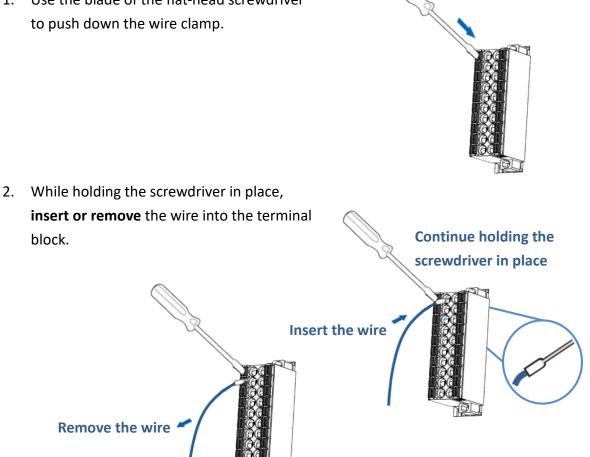
-20 -

2.4 Wiring to the Connector

 \triangleright Insulated Terminals Dimensions (Unit: mm):



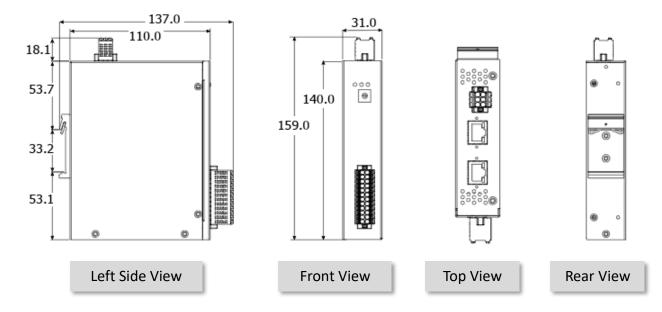
- A tip for connecting or removing the wire to the connector: \triangleright
 - 1. Use the blade of the flat-head screwdriver to push down the wire clamp.



2.5 Dimensions

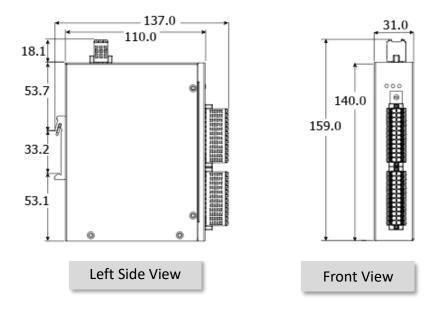
The following diagrams provide the dimensions of the ET-2200 series module and can be used as a reference when defining the specifications for any custom enclosures. All dimensions are in millimeters.

➢ (P)ET-2215H

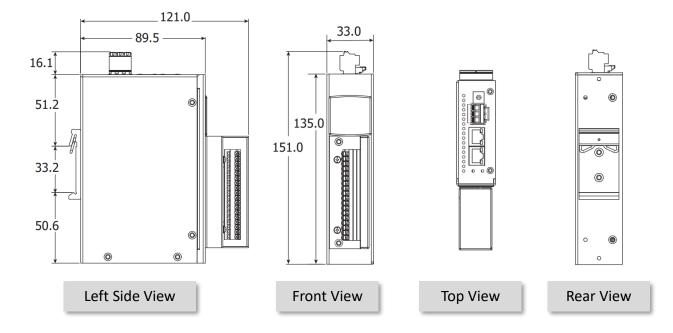


(P)ET-2215H-16:

Note: the top view and rear view are the same with the (P)ET-2215H.

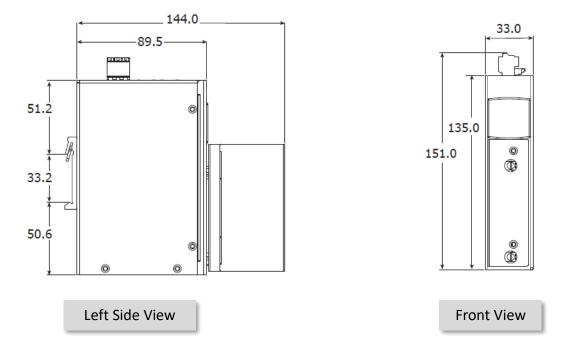


(P)ET-2218H/S1 = (P)ET-2218H + CN-1825M

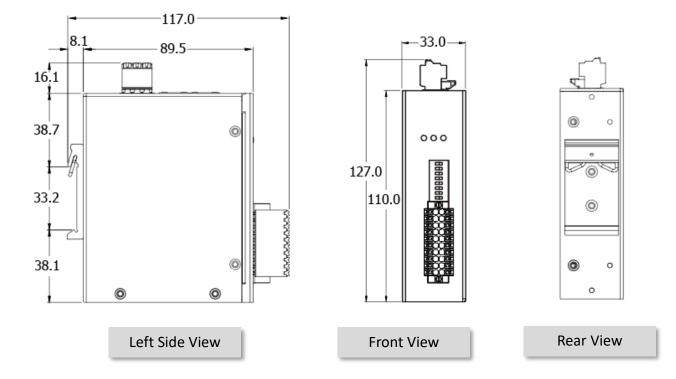


(P)ET-2218H-16/S1 = (P)ET-2218H-16 + CN-1826M

Note: the top view and rear view are the same with the (P)ET-2218H/S1.

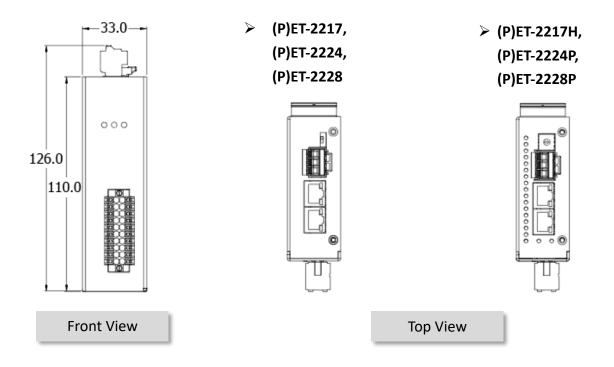


(P)ET-2217, (P)ET-2217H:

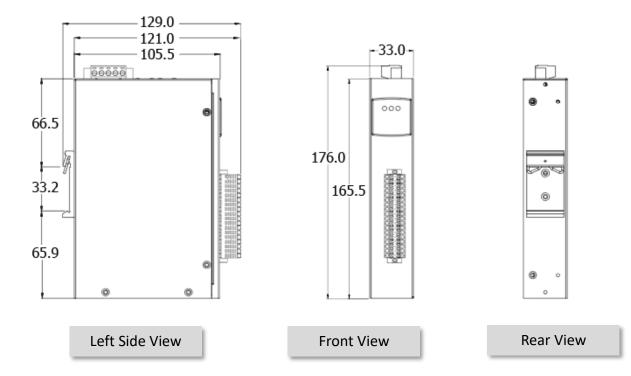


(P)ET-2224, (P)ET-2228, (P)ET-2224P, (P)ET-2228P

Note: the left side view and rear view are the same with the (P)ET-2217.

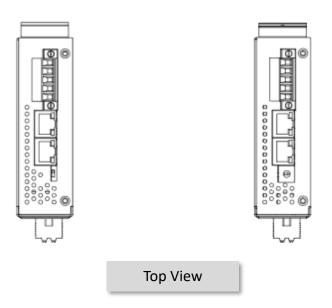


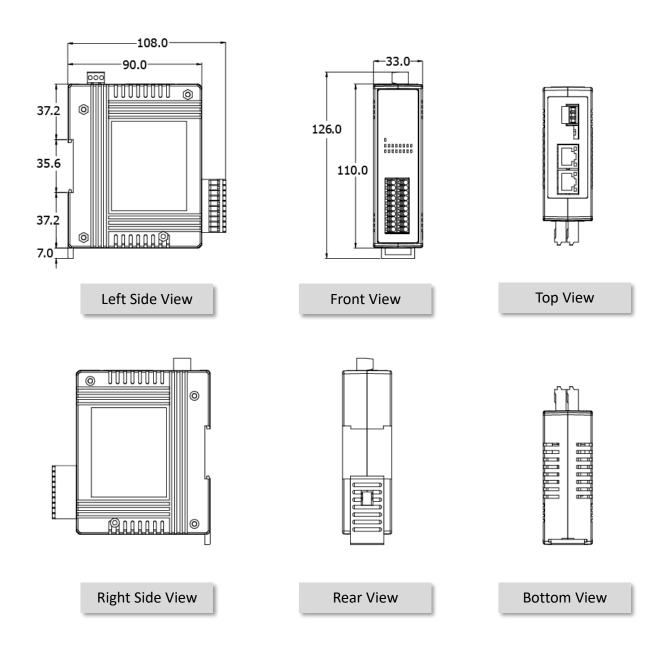
ET-2217CI, ET-2217CI-4, (P)ET-2224CI, (P)ET-2228CI, (P)ET-2224CIS, (P)ET-2228CIS:



ET-2217CI, ET-2217CI-4

(P)ET-2224CI, (P)ET-2228CI
 (P)ET-2224CIS, (P)ET-2228CIS



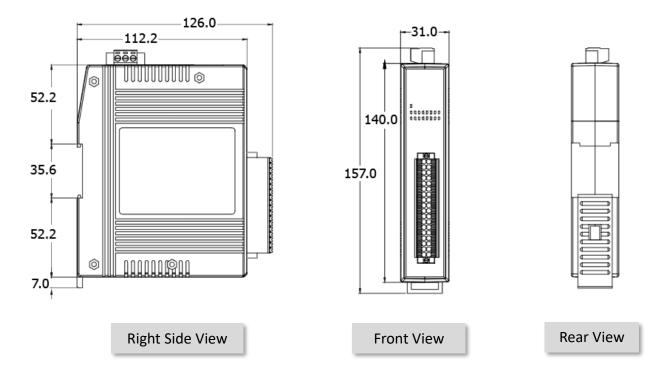


(P)ET-2242, ET-2242U, (P)ET-2254, (P)ET-2255, (P)ET-2255U,
 (P)ET-2260, (P)ET-2261, ET-2268:

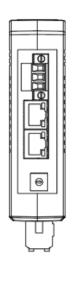
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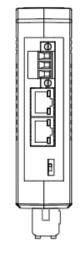
> (P)ET-2242U-32, (P)ET-2251-32, (P)ET-2255-32, ET-2261-16:



➢ (P)ET-2242U-32



((P)ET-2251-32, (P)ET-2255-32, ET-2261-16



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Top View

3. Getting Started

This chapter provides a basic overview of how to configure and operate your ET-2200 series module.

3.1 Configuring the Operating Mode

All ET-2200 series modules feature two operating modes, which can be selected by adjusting the switch on the module. **Note that it is necessary to reboot the module after modifying the operating mode.**

Init Mode

The Init Mode should be chosen when updating the firmware or conducting troubleshooting. In this mode, the configurations of the module will be forced to the default factory settings.

Run Mode

Run Mode is the default operating mode and should be used in most cases.



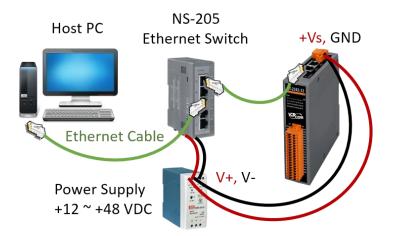
- 1. After updating the firmware, be sure to set the switch back to the "Run" position and reboot the module.
- 2. If the user cannot log in to the module's web server or forget the password, please refer to Appendix A to restore the factory default settings.



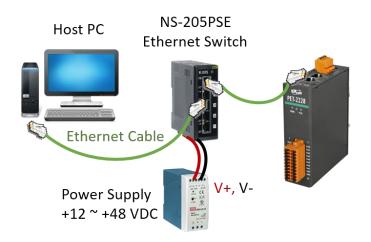
3.2 Connecting to the Network and the PC

All ET/PET-2200 series module are equipped with an RJ-45 Ethernet port to allow connecting to an Ethernet switch/hub or a PC.

Uses Non-PoE Switch



Uses PoE Switch (for PET-2200 only)



Note:

- 1) Before configuring the network, make sure that the ET-2200 and the PC are on the same subnetwork.
- 2) The valid range of power input for ET-2200 series modules will be different based on the model. For example, 10-30 VDC or 10-48 VDC.
- 3) Comfirm that the PWR LED indicator on the front panel of the module is flashing.

3.3 Configuring the Network Settings

The **eSearch Utility** is a useful tool that provides a quick and easy method of configuring the Ethernet settings for the module from a PC.

Step1. Get the eSearch Utility

The eSearch Utility can be obtained from the ICP DAS website at:

Research_Utility_setup_Windows_v

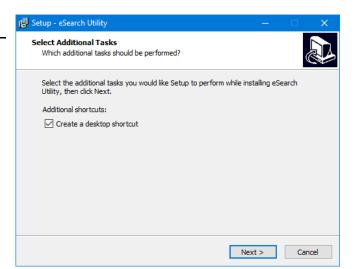
https://www.icpdas.com/tw/download/show.php?num=6710

Step2. Install the eSearch Utility

Follow the setup wizard's instructions to complete the installation.



Once the installation is finished, a desktop shortcut for the eSearch Utility will appear.



Double-click the icon to run eSearch Utility.

Step3. Click the "Search Server" button to search for your module double-click the module name to start network settings

The factory settings of the module are as follows:

IP Address	192.168.255.1	Subnet Mask	255.255.0.0	Gateway	192.168.0.1

🥩 eSearch Utility [v1.2	2.6, Dec.09, 2020]		- 0	×
File Server Tools					
Name	Alias	IP Address	Sub-net Mask	Gateway	^
ET-2217Cl	EtherIO	192.168.255.1	255.255.0.0	192.168.0.1	ו
ET-2260 (")	EtherIO	192.168.255.1	255.255.0.0	192.168.0.1	J
DL-302	EtherIO	192.168.84.62	255.255.0.0	192.168.0.1	
DL-302	EtherIO	192.168.101.15	255.255.0.0	192.168.1.1	\sim
<					>
Search Server Configuration (UDP) Web Exit					
Status					1

Step4. Configure the network settings and click the "OK" button.

Contact your Network Administrator to obtain the correct network configuration information. Modify the network settings and click the "**OK**" button to save the changes.

Note: Make sure that the IP addresses of the PC and the module are on the same sub-network.

Configure Server (UD)P)				×
Server Name :	ET-2217CI				
DHCP:	0: OFF 🔹	Sub-net Mask : 255.255.0.0	Alias:	8-ch Al	
IP Address :	192.168.79.1	Gateway : 192.168.1.1	MAC:	00:0d:e0:ff:ff:ff	_
Warning!! Contact your Ne	etwork Administrator to ge	t correct configuration before any changing!		OK Cancel	

Step 5: Search the module again and check the settings

Click the "Search Server" button to search the module again and check the settings are correct.

🥩 eSearch Utility [v1.2.6, Dec.09, 2020] - 🗆						×
File Server To	ols					
Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Address	^
ET-2260	6-ch DI_DO	192.168.79.10	255.255.0.0	192.168.1.1	00:0d:e0:65:e9:85	
ET-2217CI	8-ch Al	192.168.79.1	255.255.0.0	192.168.1.1	00:0d:e0:ff:ff:ff	
DL-302	EtherIO	192.168.84.62	255.255.0.0	192.168.0.1	00:0d:e0:92:06:69	
DL-302	EtherIO	192.168.101.15	255.255.0.0	192.168.1.1	00:0D:E0:92:00:A1	\sim
<					>	
Status	Server 0	onfiguration (UDP)	We	:b	Exit]

3.4 Modbus TCP Testing

Step1. In the eSearch Utility, Select the "Modbus TCP Master" item from the "Tools" menu to open the Modbus TCP Master Utility.

🥩 eSearch U	tility [v1.2.6, Dec.09, 2020]			– 🗆 X	<
File Server	Tools				
Name	Modbus RTU Master	Sub-net Mask	Gateway	MAC Address	^
ET-2260 < ET-2217CI	Modbus TCP Master	255.255.0.0 255.255.0.0	192.168.1.1 192.168.1.1	00:0d:e0:65:e9:85 00:0d:e0:ff:ff:ff	
DL-302 DL-302	System Information 22 EtherIO 192.168.101.15	255.255.0.0 255.255.0.0	192.168.0.1 192.168.1.1	00:0d:e0:92:06:69 00:0D:E0:92:00:A1	
ACS-11-MF	ACS-11-MF 192.168.1.242	255.255.0.0	192.168.1.1	00:0d:e0:c0:04:f7	~
<				>	
Sear	ch Server Configuration (UDP)	We	b	Exit	
Status					11

Step2. Enter the IP address and TCP Port for the ET-2200 module in the "Modbus TCP" section, and then click the "Connect" button to connect to the ET-2200.

6	MBTC	P Ver. 1.1.5		\times
6	Mod	busTCP	Protocol Description	
Ι.	Р	192.168.79.1	FC1 Read multiple coils status (0xxxx) for D0	
	Port	502	[Prefixed 6 bytes for Modbus/TCP protocol] Byte 0: Transaction identifier - copied by server - usually 0	î
		Connect Disconnect	Byte 1: Transaction identifier - copied by server - usually 0 Byte 2: Protocol identifier=0 Byte 3: Protocol identifier=0 Byte 4: Field Length (upper byte)=0	~
	9	Mode (No Waiting) Start Stop	Statistic Clear Statistic Commands Difference in Packet Quantity Responses Total Packet Size (Bytes) 0 Packet Quantity Sent 0 0 0	
	Interv	al 100 ms Set	Polling or Timer Mode (Date/Time) Polling Mode Timing (ms) Start Time Start Time Stop Time Stop Time	

Step3. Refer to the "Protocol Description" field in the top right-hand section of the Modbus Utility windows. You can send a request command and confirm that the response is correct.

Example:

The Modbus NetID for the ET-2200 is **1** (refer to Section 4.3.1). Please send the command "1 2 0 0 0 6 1 3 1 3 01" and the response will be "1 2 0 0 0 5 1 3 2 **22 17**" which indicates the model is 2217.

MBTCP Ver. 1.1.5	<u> </u>
- ModbusTCP	Protocol Description
IP 192.168.79.1	FC1 Read multiple coils status (0xxxx) for DO
Port 502	[Prefixed 6 bytes for Modbus/TCP protocol] Byte 0: Transaction identifier - copied by server - usually 0
l on j	Byte 1: Transaction identifier - copied by server - usually 0
Connect Disconnect	Byte 2: Protocol identifier=0 Byte 3: Protocol identifier=0
🔲 Data Log	Byte 4: Field Length (upper byte)=0
Polling Mode (No Waiting)	Statistic Clear Statistic
Start Stop	Commands in Packet Responses
	Total Packet Size (Bytes) 12 Ouantity Total Packet Size (Bytes) 11
┌─ Timer Mode (Fixed Period)	Packet Quantity Sent 1 0.00% Packet Quantity Received 1
Interval 100 ms Set	Polling or Timer Mode (Date/Time) Polling Mode Timing (ms)
	Start Time Start Time Max 0 Average
Start Stop	Stop Time Stop Time Min 1000 000
[Byte0] [Byte1] [Byte2] [Byte3] [Byte4] [I	3yte5]
120006 1313001	Send Command
[ByteU] [Byte1] [Byte2] [Byte3] [Byte4] [I	
01 02 00 00 00 06> 01 03 01 03 00 01	01 02 00 00 00 05> 01 03 02 22 17
U	
Refer to the example i	n Section 6.2.3 and Section 6.2 Modbus Message Structure.
1. Command	Leading Request
	01 02 00 00 00 06 01 03 01 03 00 01
2 Deemon	Leading Response
2. Response	01 02 00 00 05 01 03 02 22 17

4. Web Configuration

The Ethernet I/O module has a built-in Web Server to provide an intuitive web management interface, allowing users to modify the module's settings by using a web browser.

4.1 Logging into the Web Server

After completing the network settings, users can access the module's built-in web server from any computer that's connected to the same network. Follow these steps:

Step1. Open a web browser

Open a standard web browser. For example, Mozilla Firefox, Google Chrome, Internet Explorer, and so on.



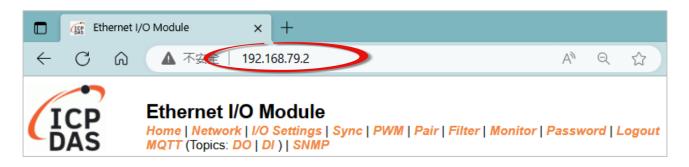
Explorer



Note that if you intend to use Internet Explorer, ensure that the cache function is disabled to avoid browser access errors.

Step2. Enter the IP address of the module into the address bar

Ensure that you have correctly configured the network settings for the I/O module, or refer to Section 3.3 "Configuring the Network Settings".



- **Note1:** The function tab will be different depending on the I/O type of the module.
- **Note2:** The "Sync" and "PWM" functions are only suitable for the DIO module.
- Note3: The "SNMP" function is unavailable for ET-2217CI /2217CI-4 (AI) and ET-2224CI/2228CI (AO) modules.

Step3. Enter the password

For the first time to log into the web interface, the default password must be changed. Enter the factory preset password "**Admin**" and give a new password. Then, click the "**Submit**" button.

ICP	Ethernet I/O Module Home Network I/O Settings S MQTT (Topics: DO DI) SNMP	ync PWM Pair Filter Monitor Password Logout
Change Password The length of the p Current pass	assword is 12 characters maximum.	The default password is " Admin "
New pass Confirm new pass		Submit

Enter the new password in the "**Login password**" field and click the "**Submit**" button to log into the web server. Also, refer the Section 4.10 "Change Password".

ICP	Ethernet I/O Module Home Network I/O Settings Sync PWM Pair Filter Monitor Password Logout MQTT (Topics: DO DI) SNMP					
The system is lo To enter the we	ogged out. b configuration, please type password in the following field					
Login password	Submit Enter the new password					
Google Chrome:						
Microsoft IE:						
Firefox: about:config / I'll be careful, I promise! / Preference Name / javascript.enabled / True.						
When using IE, please disable its cache as follows. Menu items: Tools / Internet Options / General / Temporary Internet Files / Settings / Every visit to the page						

Step 4: Login to the web server

After logging into the module's web server, the Home page will be displayed. The function tabs will be different depending on the I/O type of the module. Please refer to the following screens.

-35 -

Analog Input, Analog Output

Ethernet I	O Module				
ICP DAS Home Network	k I/O Settings MQTT Pair	Filter Monitor Password	Logout		
Model I	Name ET-2217Cl		Alias Name EtherIO)	
Firmware Ve	ersion v2.0.2 [Jan.28, 2021]		MAC Address 00-0D-	E0-FF-FF-FF	
IP Ad	dress 192.168.79.117		Initial Switch OFF		
TCP Port Tir (Socket Watchdog, Sec		(Netwo	System Timeout 0 0 ork Watchdog, Seconds		
alog Input Readings					
Analog Input Channel	Range (40096)	Value (30000)	Low Latched (30544)	High Latched (30512)	
AI0	08: +/-10 V	-00.085 fee8h	-00.086 fee5h	-00.085 feeah	
Al1	08: +/-10 V	+00.013 002bh	+00.012 0027h	+00.013 002ch	
AI2	08: +/-10 V	+00.024 0050h	+00.024 004eh	+00.025 0052h	
AI3	08: +/-10 V	+00.038 007fh	+00.037 007ch	+00.039 0080h	
Al4	08: +/-10 V	+00.002 0007h	+00.000 0001h	+00.002 0008h	
AI5	08: +/-10 V	-00.005 fff0h	-00.005 fff0h	+00.000 fffeh	
Al6	08: +/-10 V	+00.010 0021h	+00.000 0002h	+00.010 0022h	
Al7	08: +/-10 V	+00.000 fffeh	+00.000 fffeh	+00.000 0000h	
			Clear Low Latched	Clear High Latched	
2					
	Date 2023-09-22		Time 11:55:1	3	
rent Port Settings					
Pair-Connection Settings Port 1					
Server Mode Server					
Remote Ser			Disabled		
Remote TCI	Remote TCP Port Disabled				
te: The above Modbus addres:	ses are all 0 based				

Digital Input, Digital Output

Ethernet I/O Module Home Network I/O Settings Sync PWM Pair Filter Monitor Password Logout MQTT (Topics: DO DI) SNMP						
	Model Name ET-2260			Alias Name	DIO	
	Firmware Version v2.4.0 [S	ep.06 2022]		MAC Address	00-0d-e0-65-e9-85	
	IP Address 192.168.	79.60		Initial Switch	OFF	
(Socket W	TCP Timeout (Socket Watchdog, Seconds) 180 System Timeout (Network Watchdog, Seconds)					
Digital I/O (Mo	odbus Address: DO=000	000 to 00015, DI=10000) to 10015.)			
DO7	DO6 DO5	DO4	DO3	DO2	D01 🕐 D00 🕐	
DI Channel	Value (10000)	Counter (30016) / (30064)		High Latched (10	032) Low Latched (10064)	
DI0		-		-	-	
DI1		-		-	-	
DI2	•	-		-	-	
DI3	•	-		-	-	

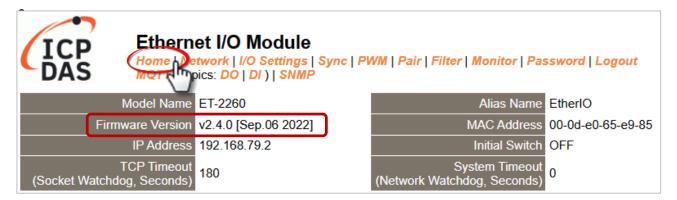
4.2 Home

The Home page provides users with information about the I/O module, as detailed below.

4.2.1 Home – DI/DO

The first section offers information about the module, including the model, alias, firmware version, MAC address, the module's IP address, the operating mode switch (Init = OFF), and Watchdog timeouts.

Note: After updating the firmware, the user can check the version number on this page.



The second section - Digital I/O provides information related to the current DIO status and DO control. Note: The user can click on the DO image to change the output status.

DO7	DO6 DO5	(b) DO4 (b) DO3 (b)	D02 🕐 D01	
OI Channel	Value (10000)	Counter (30016) / Frequency (30064)	High Latched (10032)	Low Latched (10064)
DI0:		-	-	-
DI1:		-	-	-
DI2:		-	-	-
DI3:		-	-	-
DI4:		-	-	-
DI5:		-	-	-
DI6:		-	-	-
DI7:		-	-	-

Digital I/O (Modbus Address: DO=00000 to 00015, DI=10000 to 10015.)

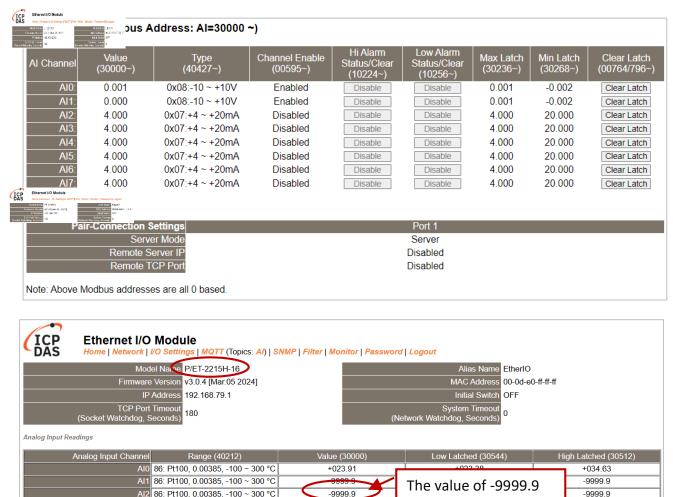
4.2.2 Home – Al

This page will display different items depending on the model:

The first section offers information about the module, including the model, alias, firmware version, MAC address, the module's IP address, the operating mode switch (Init = OFF), and Watchdog timeouts.

ILP	t I/O Module	air Filter Monitor Password	Logout
Model Name	T-2217CI	Alias Name	EtherIO
Firmware Version v2	2.0.2 [Jan.28, 2021]	MAC Address	00-0D-E0-FF-FF-FF
IP Address 19	92.168.255.1	Initial Switch	OFF
TCP Port Timeout (Socket Watchdog, Seconds)	80	System Timeout (Network Watchdog, Seconds)	0

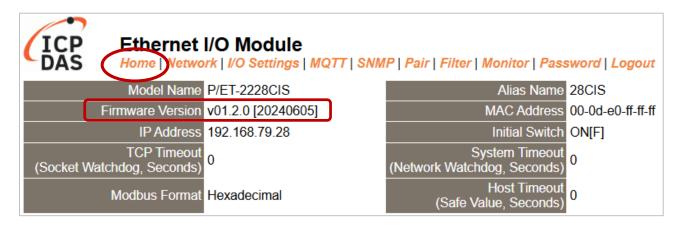
The second section - **Analog Input Readings**, provides information related to the AI data range, values, and latched values. In addition, the **Current Port Setting** can display information about the Pair-Connection function.



indicates open wiring.

4.2.3 Home – AO

The first section offers information about the module, including the model, alias, firmware version, MAC address, the module's IP address, the operating mode switch (Init = OFF), and Watchdog timeouts.



The second section - Analog Output, provides information related to the AO data type, read value, open wire detection, power-on value, safe value, and slew rate. Also, the AO value can be set. **Note:** The OVP (Over-value Protection) settings are available for (P)ET-2224CIS/(P)ET-2228CIS.

Analog Output (Modbus Address: AO=40000 to 40007.)

AO Channel	Type (40459~466)	AO Read (40000~007)	AO Write (40000~007)	Submit Value	OVP Read Back (30000~007)	Wire Break (10290~297)
AO0:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO1:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO2:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO3:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO4:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO5:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO6:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
A07:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO Channel	Power On Value (40360~367)	Safe Value (40392~399)	Slew Rate (40523~530)	OVP Alarm Status/Clear	OVP Alarm Value	OVP Alarm Enable
AO Channel AO0:					OVP Alarm Value	
	(40360~367)	(40392~399)	(40523~530)			Enable
AO0:	(40360~367) 0.000	(40392~399) <mark>0.000</mark>	(40523~530) 0x00:Immediate		0.00	Enable Disable
AO0: AO1:	(40360~367) 0.000 0.000	(40392~399) 0.000 0.000	(40523~530) 0x00:Immediate 0x00:Immediate		0.00 0.00	Enable Disable Disable
AO0: AO1: AO2:	(40360~367) 0.000 0.000 0.000	(40392~399) 0.000 0.000 0.000	(40523~530) 0x00:Immediate 0x00:Immediate 0x00:Immediate		0.00 0.00 0.00	Enable Disable Disable Disable
AO0: AO1: AO2: AO3:	(40360~367) 0.000 0.000 0.000 0.000	(40392~399) 0.000 0.000 0.000 0.000	(40523~530) 0x00:Immediate 0x00:Immediate 0x00:Immediate 0x00:Immediate		0.00 0.00 0.00 0.00	Enable Disable Disable Disable Disable
A00: A01: A02: A03: A04:	(40360~367) 0.000 0.000 0.000 0.000 0.000	(40392~399) 0.000 0.000 0.000 0.000 0.000	(40523~530) 0x00:Immediate 0x00:Immediate 0x00:Immediate 0x00:Immediate 0x00:Immediate		0.00 0.00 0.00 0.00 0.00 0.00	Enable Disable Disable Disable Disable Disable

Current port settings:

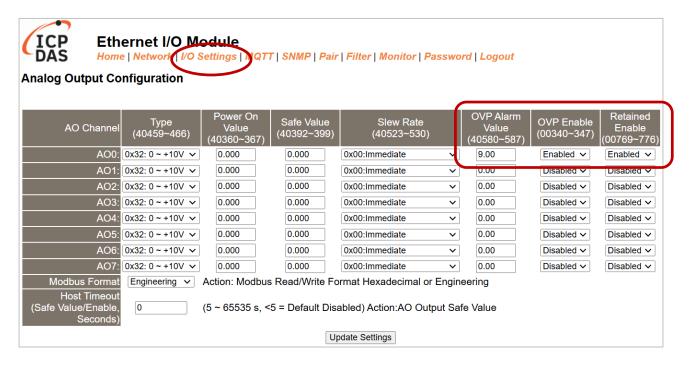
Pair-Connection Settings	Port 1
Server Mode	Server
Remote Server IP	Disabled
Remote TCP Port	Disabled

Note: Above Modbus addresses are all 0 based.

4.2.4 OVP (Over-value Protection) Mechanism

The (P)ET-2224CIS/(P)ET-2228CIS provides the OVP (Over-value Protection) function. The module will stop outputting when a voltage or current exceeds the OVP alarm value. In addition, the "OVP" indicator on the module's front panel will light up.

Users can enable the OVP function on the "I/O Settings" page and set the "OVP Alarm Value", then click the "Update Settings" button.



After completing the settings, the OVP status and the alarm value are displayed on the "Home" page.

(ICP Ethewnet I/O DAS Home Network I		SNMP Pair Filte	er Monitor Passwo	ord Logout		
Analog Output (Modbus Addr						
inalog Calpat (incabac itaa			A C 10/			Mfra Datali
AO Channel	Type (40459~466)	AO Read (40000~007)	AO Write (40000~007)	Submit Value	OVP Read Back (30000~007)	Wire Break (10290~297)
AO0:	0x32:0~+10V	0.000	0.000	Set Value	0.00	-
AO1:	0x32:0~+10V	0.000	0.000	Set Value	0.00	-
AO2:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO3:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO4:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO5:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO6:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
A07:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
	D	0-6-16-1			90.	
AO Channel	Power On Value (40360~367)	Safe Value (40392~399)	Slew Rate (40523~530)	OVP Alarm Status/Clear	OVP Alarm Value	OVP Alarm Enable
AO0:	0.000	0.000	0x00:Immediate	Normal	9.00	Enable
AO1:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO2:	0.000	0.000	0x00:Immediate	-	0.00	Disable

When the AO value is greater than or equal to the OVP alarm value, the screen will display the OVP readback value and the "Alarm" status.

ICP Ethernet I/O	Module					
Analog Output (Modbus Add			er Monitor Passwo	ord Logout	(1
AO Channel	Type (40459~466)	AO Read (40000~007)	AO Write (40000~007)	Submit Value	OVP Read Back (30000~007)	Wire Break (10290~297)
AO0:	0x32:0 ~ +10V	9.499	9.5	Set Value	9.50	-
AO1:	0x32:0 ~ +10V	0.000	0.000	Set value	0.00	-
AO2:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO3:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.02	
AO4:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.0	N > 01
AO5:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.0 9.5	$V \ge 9V$
AO6:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.0	
AO7:	0x32:0 ~ +10V	0.000	0.000	Set Value	2 0.00	-
AO Channel	Power On Value (40360~367)	Safe Value (40392~399)	Slew Rate (40523~530)	OVP Alarm Status/Clear	OVP Alarm Value	OVP Alarm Enable
AO0:	0.000	0.000	0x00:Immediate	Alarm	9.00	Enable
AO1:	0.000	0.000	0x00:Immediate		0.00	Disable
AO2:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO3:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO4:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO5:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO6:	0.000	0.000	0x00:Immediate	-	0.00	Disable
A07:	0.000	0.000	0x00:Immediate	-	0.00	Disable

If the AO value later falls below the OVP alarm value, the user can click the "Alarm" button to clear the "Alarm" status.

Analog Output (Modbus Add	ress: AO=40000	to 40007.)			(1)
AO Channel	Type (40459~466)	AO Read (40000~007)	AO Write (40000~007)	Submit Value	OVP Read Back (30000~007)	Wire Break (10290~297)
AO0:	0x32:0 ~ +10V	5.001	5	Set Value	5.00	-
AO1:	0x32:0 ~ +10V	0.000	0.000	Set value	0.00	-
AO2:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	-
AO3:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.	
AO4:	0x32:0 ~ +10V	0.000	0.000	Set Value	0. 5	V < 9 V
AO5:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.	V \ J V
AO6:	0x32:0 ~ +10V	0.000	0.000	Set Value	0.00	
AO7:	0x32:0 ~ +10V	0.000	0.000	Set Value	2 0.00	-
AO Channel	Power On Value (40360~367)	Safe Value (40392~399)	Slew Rate (40523~530)	OVP Alarm Status/Clear	OVP Alarm Value	OVP Alarm Enable
AO0:	0.000	0.000	0x00:Immediate	Normal	9.00	Enable
AO1:	0.000	0.000	0x00:Immediate	- 13	0.00	Disable
AO2:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO3:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO4:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO5:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO6:	0.000	0.000	0x00:Immediate	-	0.00	Disable
AO7:	0.000	0.000	0x00:Immediate	-	0.00	Disable

4.3 Network



The *Network* page provides four sections, each of which will be described in more detail below.

1. IP Address:

It can be used to configure the Ethernet settings for ET-2200, e.g., the IPv4 address, the IPv6 address, DNS settings, and Modbus TCP Slave settings.

2. General Settings:

It can be used to configure the Ethernet speed, system timeout, TCP timeout, UDP heartbeat settings, and web auto-logout for ET-2200.

3. Other Operations:

It can be used to reset the ET-2200 to factory defaults or reboot, or remotely upgrade its firmware.

4.3.1 IP Address Configuration

IP Address

IPv4 Address	
Address Type	Static IP 🗸
Static IPv4 Address	192 . 168 . 255 . 2
Subnet Mask	255 . 0 . 0
Default Gateway	192 . 168 . 0 . 1
MAC Address	00-0d-e0-ff-ff-33 (Format: FF-FF-FF-FF-FF)
IPv6 Address	
Link Local Address	fe80:0:0:0:20d:e0ff:feff:ff33
SLAAC Address	0:0:0:0:0:0:0
SLAAC Timeout (SLAAC Watchdog)	0 (30 ~ 65000 seconds, 0 = Default Disabled)
User-defined Address	fc00:0:0:0:0:01
DNS Settings	Client Mode Only
Auto DNS Configuration	Enable (Auto DNS Server Configuration by IPv4 DHCP. Default = Enable)
Preferred DNS Server IP	208.67.222.222 IPv4 example: 208.67.222.222, IPv6 example: 2620:119:35::35
Alternate DNS Server IP	208.67.220.220 IPv4 example: 208.67.220.220, IPv6 example: 2620:119:53::53
Modbus TCP Slave	
Local Modbus TCP port	502 (Default= 502)
Local Modbus NetID	1 (Default= 1)
Check Modbus NetID	Enable (Process messages with correct NetID only. Default = Enable)
	Update Settings

Note: The IPv6 Address and DNS settings are not supported for some models.

The table describes the parameters contained in the "IP Address Configuration" section.

Item	Description
IPv4 Address	
	Static IP: If there is no DHCP server installed in your network, you can configure the network settings manually. Refer to Section"Manual Configuration" for more details.
Address Type	DHCP: Dynamic Host Configuration Protocol (DHCP) is a network application protocol that automatically assigns an IP address to each device. Refer to the Section "Dynamic Configuration" for more details.
Static IPv4 Address	This parameter is used to assign a specific IP address. Each ET-2200 module connected to the network must have its unique IP address.
Subnet Mask	This parameter is used to assign the subnet mask for the ET-2200 module. The subnet mask indicates which portion of the IP address is used to identify the local network or subnet.
Default Gateway	This parameter is used to assign the IP Address of the Gateway to be used by the ET-2200 module. A Gateway (or router) is a device that is used to connect an individual network to one or more additional networks.
MAC Address	This parameter is used to set the User-defined MAC address, which must be in the format FF-FF-FF-FF-FF.
IPv6 Address	
Link Local Address	Each IPv6 device connected to the network must have a link-local address. The address is auto-configured by (P)ET-2200 and is always effective in the same link layer.
SLAAC Address	The (P)ET-2200 supports stateless address auto-configuration (SLAAC), which is automatically configured by the router. The default router is the link-local address of the router.
SLAAC Timeout (SLAAC Watchdog)	This parameter is used to set the Timeout value of SLAAC. If the SLAAC address is not assigned within the specified time, the system will reboot and configure the SLAAC address again.
User-defined Address	This parameter is used to set the IP address of the module. Each (P)ET-2200 connected to the network must have a unique IP address.

DNS Settings				
	Enable:			
Auto DNS Configuration	The IP address of the DNS Server is automatically set by IPv4 DHCP.			
	Disable:			
	Automatically set to the preferred IP address of the DNS Server.			
Preferred DNS Server IP	This parameter is used to set the preferred IP address of the DNS			
Freiened DNS Server IF	Server.			
Alternate DNS Server IP	This parameter is used to set the alternate IP address of the DNS			
Alternate DNS Server IP	Server.			
Modbus TCP Slave				
Local Modbus TCP port	This parameter is used to set the local port to be used by the Modbus slave device. The default value is 502.			
Local Modbus NetID	This parameter is used to set the Network ID to be used by the Modbus slave device. The default value is 1.			
Update Settings	Click this button to save the changes.			

Dynamic Configuration

If your network is connected to a DHCP server, you can simply configure a dynamic IP address as follows.

Step 1: Select "**DHCP**" from the Address Type drop-down menu.

Step 2: Click the **"Update Settings"** button to complete the configuration.

IPv4 Address				
Address Type				
Static IPv4 Address	192 . 168 . 79 . 2			
Subnet Mask	255 . 255 . 0 . 0			
Default Gateway	192 . 168 . 1 . 1			
MAC Address	00-0d-e0-65-cf-d3 (Format: FF-FF-FF-FF-FF)			
Modbus TCP Slave				
Local Modbus TCP port	502 (Default= 502)			
Local Modbus NetID	1 (Default= 1)			
Check Modbus NetID	Enable (Process messages with correct NetID only. Default = Enable)			
Update Settings				

Manual Configuration

Follow the steps below to manually configure the IP address.

- **Step 1:** Select **"Static IP"** from the **Address Type** drop-down menu.
- **Step 2:** Enter the network settings of the module.

(The user can modify the network settings in Section 3.3)

Step 3: Click the **"Update Settings"** button to complete the configuration.

IPv4 Address					
Address Type	Static IP V				
Static IPv4 Address	192 . 168 . 79 . 2				
Subnet Mask	255 . 255 . 0 . 0				
Default Gateway	192 . 168 . 1 . 1				
MAC Address	00-0d-e0-65-cf-d3 (Format: FF-FF-FF-FF-FF)				
Modbus TCP Slave					
Local Modbus TCP port	502 (Default= 502)				
Local Modbus NetID	(Default= 1)				
Check Modbus NetID	Enable (Process messages with correct NetID only. Default = Enable)				
	Update Settings				

4.3.2 General Settings

General Settings

Ethernet Speed	Auto • (Auto=10/100 Mbps Auto-negotiation)			
System Timeout (Network Watchdog)	0 (30 ~ 65535 s, Default= 0, Disable= 0) Action:Reboot			
TCP Timeout	180 (5 ~ 65535 s, Default= 180, Disable= 0) Action:Cut-off			
UDP Configuration	Enable (Enable/Disable the UDP Configuration, Enable=default.)			
Web Auto-logout	10 (1 ~ 65535 minutes, Default= 10, Disable= 0)			
HTTP port	80 (Default= 80)			
Alias Name	EtherIO (Max. 18 chars)			
	Update Settings			

The table describes the parameters contained in the "General Settings" section.

Item	Description
Ethernet Speed	This parameter is used to set the Ethernet speed. The default value is Auto (Auto = 10/100 Mbps Auto-negotiation).
System Timeout (Network Watchdog)	This parameter is used to configure the system timeout value. If there is no activity on the network for a specific time, the system will be rebooted based on the configured system timeout value.
TCP Timeout (Seconds)	This parameter is used to configure the TCP timeout value. If Modbus TCP communication is idle for a specific time, the system will cut off the connection.
UDP Configuration	This parameter is used to enable or disable the UDP configuration function.
Web Auto-logout	This parameter is used to configure the automatic logout value. If there is no activity on the web server for a specific time, the current user account will automatically be logged out.
Alias Name	This parameter is used to assign an alias name for each ET-2200 module to assist with easy identification.
HTTP Port	This parameter is used to assign specific a HTTP port to the ET-2200 module. The ET-2200 needs to be restarted when the HTTP port is changed. You need manually type the new HTTP port in the address bar of the browser. The default is 80. For example, if the HTTP port is set to 81, then enter the "IP address: HTTP port" (10.0.8.123:81).
Update Settings	Click this button to save the changes.

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4.3.3 Restore Factory Defaults/Firmware Update

Other Operations

Restore all options to their factory default states	Restore Defaults	
Reboot the module	Reboot	
Firmware update via Ethernet If the remote firmware update is failed, then on-site firmware update is required to make the module working again. Step 1: Refer to firmware update manual first. Step 2: Run eSearch Utility to prepare and wait for update. Step 3: Click the [Update] button to reboot the module and start update. Step 4: Configure the module again.	Update	

Note: This setup page may be different for some modules, but the functions are the same.

Restore all options to their factory default states

To reset all parameters to their original factory default settings, use the following procedure:

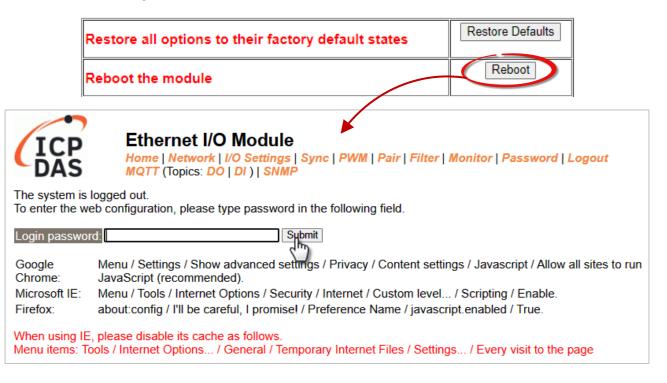
- **Step 1:** Click the **"Restore Defaults"** button to factory reset the module.
- **Step 2:** Click the **"OK"** button in the message dialog box.
- **Step 3:** Check whether the module has been reset to the original factory default settings for use with the **eSearch Utility.** Refer to Section 3.3 "Configuring the Network Settings".

Restor	e all option	is to thei	r factory default	states	Res	store Defaults	
		192.168.79.1 says Click OK to confirm the restore, or Cancel to retain existing settings.					
	et eSouch II			ок	Cancel		
	🥩 eSearch U File Server		tory Defaults		_		
	Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Addr ^	
	ET-2217CI DL-302	EtherIO EtherIO	192.168.255.1 192.168.84.62	255.255.0.0 255.255.0.0	192.168.0.1 192.168.0.1	00:0d:e0:1 00:0d:e0:! v	
	<					>	
	Search	Server	onfiguration (UDP)	Web		Exit	
	Status					1.	

Reboot the module

The **Reboot the module** function can be used to remotely force the ET-2200 module to reboot. After that, enter the password to log into the main page.

Other Operations



Firmware Update

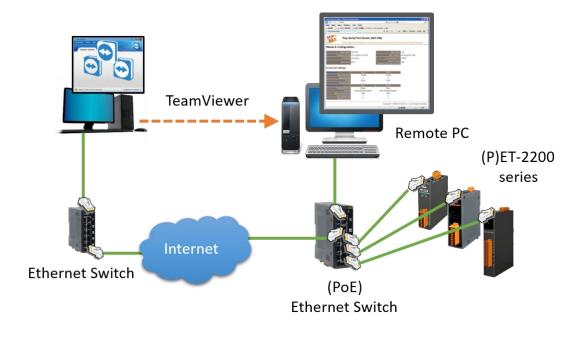
When updating the firmware, the module requires initialization on the LAN. In the case of earlier firmware updates, users had to manually set the operating switch to "Init" and reboot the module to complete the initialization. However, with the new firmware update, users can now initiate the initialization process by clicking the "**Update**" button on the module's web interface.



Visit the website to download the latest firmware of the ET-2200 module. Also, refer to the "ET-2200 Firmware Update Manual" for instructions.

https://www.icpdas.com/en/download/show.php?num=2632

When the module is installed remotely, you can also use remote control software (such as TeamViewer) to connect to the remote PC. This allows you to initialize the module and complete the firmware update through the web interface.



🚺 <u>Note:</u>

If the **remote firmware update** fails, it may result in the module not functioning properly. In such cases, execute the "Firmware Update" using the eSearch Utility and **manually** initiate the initialization. This should restore the module to its normal state.

4.4 I/O Settings

The **I/O Settings** page allows you to configure the Digital Input, Digital Output, and Analog Input parameters for the ET-2200 series module.

4.4.1 DO Control



Digital Output	Modbus Address	Setting
Value	00007 - 00000	0x0 (CH 7 - 0:
		Update Settings

The table describes the parameters contained in the "**DO Control**" section.

Item	Description
Set DO value	This parameter is used to manually assign a specific value for the DO.
Update Settings	Click this button to save the changes.

4.4.2 DI/DO Configuration

DI/DO Configuration:

Digital Output	Modbus Address	Setting				
Host/Slave Watchdog Timeout	40257	0 (10 ~ 65000 Seconds, Default= 0, Disable= 0) Outputs DO with safe-value or <i>PWM</i> when host/slave timeout.				
Enable Safe Value (Enable Watchdog)	00339 - 00332	0x0 (CH 7 - 0:				
Safe Value	00274 - 00267	0x0 (CH 7 - 0:				
Power-On Value	00242 - 00235	Охо (СН 7 - 0: СССССССССССССССССССССССССССССССССС				
Digital Input	Modbus Address	Setting				
Enable Latched DI	00150	(Enable All = Checked)				
Clear Latched Status (High)	00032	Clear High = Checked)				
Clear Latched Status (Low)	00033	Clear Low = Checked)				
DI Filter Level	40201	0 (1 ~ 6000 ms, Default= 0, Disable= 0)				
Digital Counter	Modbus Address	Setting (Based on DI)				
Enable Digital Counter	00158 - 00151	Охо (СН 7 - 0: ССП				
Clear Digital Counter	00041 - 00034	0x0 (CH7 - 0:				
Preset Counter Value	40065 - 40050	Ch 07: 0 Ch 06: 0 Ch 05: 0 Ch 04: 0 Ch 03: 0 Ch 02: 0 Ch 01: 0 Ch 00: 0				
Frequency Measurement	Modbus Address	Setting (Based on DI)				
Enable Frequency Measurement	00197 - 00190	0x0 (CH 7 - 0:				
Scan Mode	40150	Single pulse ▼ 1000 ms: 1 Hz ~ 3 kHz (+/- 1 Hz error). 100 ms: 100 Hz to 3 kHz (+/- 10 Hz error). Single-pulse: 0.01 Hz ~ 1 Hz (+/- 0.01 Hz error), for stable signal only. Note: ET-2254P supports counter/frequency up-to 2.5 kHz.				
Moving Average	40200					
Universal DIO	Modbus Address	Setting (for ET-2254/P Only)				
Configuration Mode	00299	Dynamic V Static: By "Force DI/DO Mode" configuration. Dynamic: Depends on DO requests.				
Force DI/DO Mode	00307 - 00300	0x0 (CH 7 - 0:				
		Update Settings				

The table describes the parameters contained in the "DI/DO Configuration" section.

Item	Description			
Digital Output				
Host/Slave Watchdog Timeout	This parameter is used to configure the Host Watchdog timeout value. If there is no Modbus TCP communication activity for the specified period (the timeout), then the Host Watchdog will activate an alarm.			
Enable Safe Value (Enable Watchdog)	This parameter is used to enable the watchdog on each DO channel.			

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Item	Description			
Safe Value	This parameter is used to define the DO safe value for the ET-2200 module. If the Host Watchdog alarm is activated, the DO will be set to the user-defined safe value.			
Power-On Value	This parameter is used to define the DO Power-on value. On boot-up, the DO is set to the user-defined Power-on value.			
Digital Input				
Enable Latched DI	This parameter is used to enable the latch function on all DI channels. The status of the DI will be recorded if it has been flagged as either high or low. 0 = Disable All; 1 = Enable All			
Clear Latched Status (High)	This parameter is used to clear the status of all high-latched D/I. 0 = No Operation; 1 = Clear All			
Clear Latched Status (Low)	This parameter is used to clear the status of all low-latched D/I. 0 = No Operation; 1= Clear All			
DI Filter Level	The DI filter eliminates high-frequency noise from the input and can be adjusted in a range of 1 to 6500 (ms). Refer to Appendix A.4 "What is Digital-Input Filter (DI Filter)" for more details.			
Digital Counter				
Enable Digital Counter	This parameter is used to enable the digital counter on each DI channel.			
Clear Digital Counter	This parameter is used to clear the values of each DI counter.			
Preset Counter Value	This parameter is used to set the default value for each DI counter.			
Frequency Measurement (DI)				
Enable Frequency Measurement	This parameter is used to enable the frequency measurement function on each DI channel.			

Item	Description				
	 This parameter is used to define the scan mode for the frequency measurement. 1000 ms: This mode provides a normal update rate and normal accuracy. The acceptable frequency range for the input signal is 1 Hz to 3 kHz (± 1 Hz error). This mode can be used when the pulse width (signal source) contains small errors since the measurement is based on the pulse count. 100 ms: 				
Scan Mode	This mode provides a fast update rate, but the accuracy is low. The acceptable frequency range for the input signal is 100 Hz to 3 kHz (± 10 Hz error). This mode can be used when the pulse width (signal source) contains small errors since the measurement is based on the pulse count .				
	Single-pulse: This mode provides the highest accuracy but can only be used for a stable signal. The data update rate depends on the signal frequency and the acceptable signal frequency range for the input signal is 0.01 Hz to 3.5 kHz (± 0.01 Hz error).This mode can only be used when the pulse width (signal source) is stable since the measurement is based on the width of a single pulse.				
Moving Average	 1 ==> No Average is used 2 ==> Uses the average of 2 continuous sample values 4 ==> Uses the average of 4 continuous sample values 8 ==> Uses the average of 8 continuous sample values 				
Universal DIO					
Force DI/DO Mode	Dynamic: Dynamic I/O type based on DO requests. Static: Static I/O type by configuration (web or Modbus).				
For ET-2254(P) only	0x0 (CH 7 - 0: <t< td=""></t<>				
Update Settings	Click this button to save the changes.				

4.4.3 Analog Input Configuration



(A) Voltage/Current Input

Al Channel	Туре (40427~434)	Channel Enable (00595~602)	Hi Alarm Enable (00636~643)	Hi Alarm Mode (00700~707)	Hi Alarm Value (40296~303)	Low Alarm Enable (00668~675)	Low Alarm Mode (00732~739)	Low Alarm Value (40328~335)
AI0:	0x07:4~20mA 🗸	Disabled ~	Disabled ~	Momentary ~	0.000	Disabled ~	Momentary ~	0.000
AI1:	0x07:4~20mA 🗸	Disabled ~	Disabled ~	Momentary ~	0.000	Disabled ~	Momentary ~	0.000
Al2:	0x07:4~20mA 🗸	Disabled ~	Disabled ~	Momentary ~	0.000	Disabled ~	Momentary ~	0.000
Al3:	0x07:4~20mA 🗸	Disabled ~	Disabled ~	Momentary ~	0.000	Disabled ~	Momentary ~	0.000
Al4:	0x07:4~20mA 🗸	Disabled ~	Disabled ~	Momentary ~	0.000	Disabled ~	Momentary ~	0.000
AI5:	0x07:4~20mA 🗸	Disabled ~	Disabled ~	Momentary ~	0.000	Disabled ~	Momentary ~	0.000
Al6:	0x07:4~20mA 🗸	Disabled ~	Disabled ~	Momentary ~	0.000	Disabled ~	Momentary ~	0.000
AI7:	0x07:4~20mA 🗸	Disabled -	Disabled ~	Momentary ~	0.000	Disabled ~	Momentary ~	0.000
Modbus Format	Hexadecimal ~	Action: Modb Engineering						
Sampling Rate	Normal ~	Action: AI Sampling Rate setting some of the modules support the alarm function.						
Analog Input Mode	Differential ~	Action: Analog Input Mode Differential or Single End						
	Update Settings							

The table describes the parameters contained in the "Analog Input Configuration" section.

Item	Description				
Analog Input Channel					
AI0 ~ AI7	Set the data range for each channel and whether to enable or disable it. If the alarm is enabled and the alarm mode is set to "Momentary" which means the alarm status will automatically be cleared if the alarm occurred and the AI value is back to normal. If the mode is set to "Latch", the alarm status can only be cleared by using the Clear command.				
Analog Input					
Data Format	Set the data format, e.g., Hex or Engineering.				
Sampling Rates	Set the sampling rate, Fast or Normal mode.				
Analog Input Mode	Set the wiring mode, e.g., Differential or Single End.				
Update Settings	Click this button to save the changes.				

(B) <u>RTD Input</u>

ICP Ethernet I/O Module DAS Home Network I/O Settings Nalog Input Configuration:					
Analog Input		Settings			
Sampling Rates (00141)	Fast 🗸				
Moving Average (40497)	1 (1 ~ 128, Default = 1)				
Analog Input Channel	Range (40212) 🗌 All as Al0	Temperature Offset (40288)	Resistance Offset (40384)		
AI0	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
Al1	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI2	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI3	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
Al4	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI5	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
Al6	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI7	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI8	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
Al9	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI10	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
Al11	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI12	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI13	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI14	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
AI15	86 Pt100, α=0.00385, -100 ~ 300°C 🗸	0.00	0.00		
	Update Set	tings			

The table describes the parameters contained in the Analog Input Configuration section.

Item	Description		
Analog Input			
Sampling Rates	Set the sampling rate, Fast or Normal mode.		
Moving Average	Set the moving average value of temperature.		
Analog Input Channel			
AI0 ~ AI15	Set the temperature range, temperature offset, and resistance offset for each channel.		
Update Settings	Click this button to save the changes.		

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(C) <u>Thermocouple Input</u>

alog Input Configuration:					
Analog Input Settings					
Sampling Rates (00141)					
Moving Average (40497)	1 (1 ~ 128, Default = 1)				
CJC, Cold Junction Compensation (00267)	Enable 🗸				
Module CJC Offset (40490)	0.0				
Analog Input Channel	Range (40212) 🗆 All as Al0	Temperature Offset (40288)	Channel CJC Offset (40384)		
AI0	OF Type K Thermocouple, -270 ~ 1372°C 🗸 🗸	0.0	0.0		
Al1	OF Type K Thermocouple, -270 ~ 1372°C 🗸 🗸	0.0	0.0		
Al2	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI3	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
Al4	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI5	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
Al6	OF Type K Thermocouple, -270 ~ 1372°C 🗸 🗸	0.0	0.0		
AI7	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI8	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI9	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI10	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI11	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI12	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI13	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI14	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0		
AI15	OF Type K Thermocouple, -270 ~ 1372°C 🔹 🗸	0.0	0.0		

The table describes the parameters contained in the Analog Input Configuration section.

Item	Description		
Analog Input			
Sampling Rates	Set the sampling rate, Fast or Normal mode.		
Moving Average	Set the moving average value of temperature.		
CJC, Cold Junction Compensation	Enable/Disable the cold junction compensation. (Accuracy is 0.1°C)		
Module CJC Offset	Set the CJC offset of the module. (Accuracy is 0.1°C)		
Analog Input Channel			
AI0 ~ AI15	Set the temperature range, temperature offset, and CJC offset for each channel.		
Update Settings	Click this button to save the changes.		

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4.4.4 AI - Calibration

(A) Voltage/Current Input

	Change Mode				
[Calibration Mode				
Item	Set Calibration				
Zero 🗸	Calibration Apply				
Warning: Incorrect manual calibration will cause your device's input imprecise. 1.Use "Calibration Mode" button to enter Calibration mode.					
ng to manual calibration, then	press "Update Settings" on top.				
	Item Zero ✓ ation will cause your device enter Calibration mode.				

3.Apply the full scale source to the channel's Type(0x08,0x09,0x05,0x0A,0x0B,0x1A).

4.DMM(Digit Multimeter) is needed to measure the input as close as the full scale value.

5. Press "Calibration Apply" will calculate & store the value.

Note: Use "Restore Defaults" on Network page, can recover your calibration value from factory default.

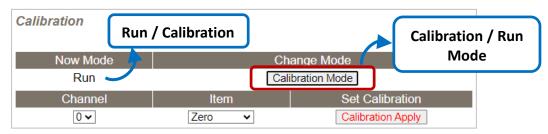
The following table provides parameter notes for the **Calibration** section:

ltem	Description		
Calibration			
Now Mode	Used to display the current mode		
Change Mode	Click the Calibration Mode (or Run Mode) button to change the mode		
Channel	Choose the AI channel for calibration		
Item	Choose to use either zero calibration or span calibration		
Set Calibration	Click the Calibration Apply button to perform calibration		

Step1: In the Analog Input Configuration section of the I/O Settings page, enable the AI channel and select the Type and Modbus Format, then click the Update Settings button to save the changes.

Analog Input (Configuration							
Al Channel	Al Channel Type (40427~434) Channel Enable (00595~602) Hi Alarm Enable (00636~643) Hi Alarm Mode (00700~707) Hi Alarm Value (40296~303)							
AI0:	0x08:0~+10V 🗸	Enabled Disabled Momentary 0.000						
Al1:	0x08:0~+10V V	Enabled V Disabled V Momentary V 0.000						
Modbus Format	Engineering 🗸	Action: Modbus Read/Write Format Hexadecimal or Engineering						
Sampling Rate	Normal Action: AI Sampling Rate setting							
				Update S	Settings			

Step2: In the **Calibration** section of the **I/O Settings** page, click the **Calibration Mode** button to get into the calibration mode.



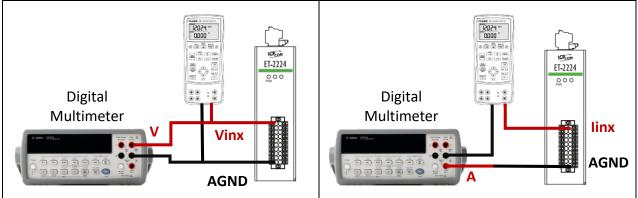
Step3: Choose a channel for calibration and link the module to a voltage source (or current source) and a multimeter.

Voltage Calibration:

Current Calibration:

The module, voltage sources, and meter are linked in **series**.

The module, current sources, and meter are linked in **parallel**.





Step4: Choose the **Zero** calibration, input voltage (or current) via a digital multimeter, and check the input value using a multimeter. Click the **Calibration Apply** button to perform the calibration.

Note: The input voltage (or current) must be as close as the min/max value. For example,

Туре	08: 0∼+10V	1A: 0~+20mA
Zero Input Value	0V	0mA
Span Input Value	10V	20mA

Step5: Follow the same way to perform Span calibration.

Step6: After completing the Zero and Span calibration, click the "**Run Mode**" button to back to the Run mode.

Note: The user can click the **Restore Defaults** button on the **Network** page to restore the settings to the factory defaults.

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(B) <u>RTD Input</u>

Analog Input Calibration

Analog Input Channel	Range	Zero Calibration Resistance	Span Calibration Resistance		
Al0	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
Al1	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
AI2	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
AI3	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
AI5	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
Al6	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
AI7	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
AI8	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
AI9	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
AI10	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
Al11	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
Al12	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
Al13	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
Al14	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
AI15	86: Pt100, 0.00385, -100 ~ 300 °C	0 Ω	300 Ω		
Al Channel	Alo 🗸	Calibration Type	Zero 🗸		
	Calibrate				
s: s recommended to set moving average to 128 during calibration for fast mode.					

Reload

Reload Factory Calibration Parameters

Follow these steps to perform calibration:

Step1: In the Analog Input Configuration as noted in section 4.4.3, choose the "Fast" mode in the Sampling Rates field and enter "128" in the Moving Average field, then click the Update Settings button.

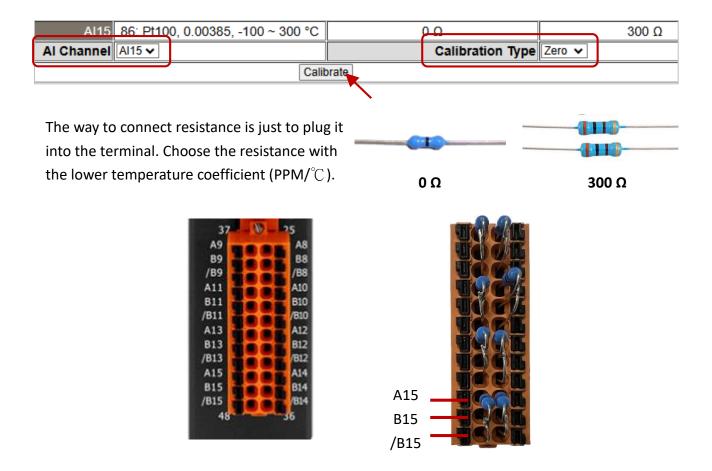
Analog Input Configuration:			
Analog Input		Settings	
Sampling Rates (00141)	Fast 🗸		
Moving Average (40497)	128 (1 ~ 128, Default = 1)		

AI15 86 Pt100, α=0.00385, -100 ~ 300°C 🗸 0.00	0.00
Update Settings	

Note:

- 4) It's recommanded to set the **Moving Average** to "**128**" while calibrating in fast mode.
- 5) When calibrating each I/O channel, the user must perform the Zero calibration before the Span calibration.

Step2: In the Analog Input Calibration section, specify the AI channel to be calibrated (e.g., "AI15") and connect a resistance with 0Ω . Next, choose "Zero" in the Calibration Type field and click the Calibration button.



Step3: Connect a resistance with 300Ω to the specified channel (e.g., AI15) and choose "Span" in the **Calibration Type** field, and then click the **Calibration** button.

AI15 86: Pt10	0, 0.00385, -100 ~ 300 °C		2.0		300 Ω
Al Channel Al15 V	· · · · · · · · · · · · · · · · · · ·		Calibration Type	Span 🗸	
	Calit	brate			

Now, the user have done the Zero/Span calibration. If it's necessary, the user can click the **Reload** button to restore the factory reset.

Reload Factory Calibration Parameters	Reload

(C) <u>Thermocouple Input</u>

ICP Ethernet I/Q Medule								
DAS Home Netword I/O Settings MQTT (Topics: AI) SNMP Filter Monitor Password Logout								
nalog Input Configuration:								
Analog Input Sampling Rates (00141)	Fast V	Settings						
Moving Average (40497)	128 (1 ~ 128, Default = 1)							
CJC. Cold Junction								
Compensation (00267)								
Module CJC Offset (40490)	0.0							
Analog Input Channel	Range (40212) 🗆 All as Al0	Temperature Offset (40288)	Channel CJC Offset (40384)					
	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0					
Al1	0E Type J Thermocouple, -210 ~ 760 C 0F Type K Thermocouple, -270 ~ 1372°C	0.0	0.0					
Al2	10 Type T Thermocouple, -270 ~ 400°C 😽	0.0	0.0					
AI3	11 Type E Thermocouple, -270 ~ 1000°C 12 Type R Thermocouple, 0 ~ 1768°C	0.0	0.0					
Al4	13 Type S Thermocouple, 0 ~ 1768°C	0.0	0.0					
AI5	14 Type B Thermocouple, 0 ~ 1820°C 15 Type N Thermocouple, -270 ~ 1300°C	0.0	0.0					
Al6	16 Type C Thermocouple, 0 ~ 2320°C	0.0	0.0					
AI7	AI7 17 Type L Thermocouple, -200 ~ 800°C 18 Type M Thermocouple, -200 ~ 100°C		0.0					
Al8	19 Type LDIN43710 Thermocouple, -200 ~ 900°C	0.0	0.0					
Al9	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0					
AI10	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0					
AI11	OF Type K Thermocouple, -270 ~ 1372°C ▼	0.0	0.0					
AI12	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0					
AI13	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0					
AI14	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0					
AI15	OF Type K Thermocouple, -270 ~ 1372°C 🗸	0.0	0.0					
	Update Settings							

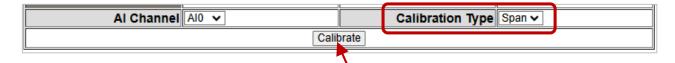
Follow these steps to perform calibration:

- **Step1:** In the **Analog Input Configuration** section, choose the "Fast" mode in the **Sampling Rates** field and enter "128" in the **Moving Average** field.
- **Step2:** Set the type for the channel that you want to calibrate (e.g, AlO, Type K), and click the **Update Settings** button.
- Step3: In the Analog Input Calibration section, select the AI channel (e.g., "AIO") to be calibrated, choose "Zero" in the Calibration Type field, apply 0 mV of input voltage, and click the Calibration button.

Analog Input Calibration

Analog Input C	hannel	Range	Zero Calibration Voltage	Span Calibration Voltage
Al0 0F: Type K Thermocouple, -270 ~ 1372 °C		0 mV	75 mV	
	Al1	0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
	Al2	0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
	Al3	0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
	Al4	0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
	AI5	0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
	AI6	0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
		0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
	AI8	0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
		0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
		0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
		0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
		0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
	AI13	0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
	AI14	0F: Type K Thermocouple, -270 ~ 1372 °C	0 mV	75 mV
	A::15	OF: Type K Thermocouple, 270 1072 °C	0 mV	75 m V
AI C	hannel	Alo V	Calibration Type	
		Calibrat	e	Zero Span
commended to set moving	average	to 128 during calibration for fast mode.		

Step4: Choose "**Span**" in the **Calibration Type** field, apply **75 mV** of input voltage to the specified channel, and then click the **Calibration** button.



For now, the user has completed the calibration.

4.4.5 AI - RTC

The function is used to set the system time and click the "**Update Settings**" button to save the revised settings to the ET-2200 module.

RTC	
Year	2022 (2000 to 2159)
Month	6 (1 to 12)
Date	13 (1 to 31)
Hour	11 (0 to 23)
Minute	5 (0 to 59)
Second	50 (0 to 59)
	Update Settings

4.4.6 AI - Data Logger

Data Logger

Status	Running		
Change Logging	Run 🗸		
Overwrite on Full	No 🗸		
Sampling Interval - Second	1 (0 to 65535)		
Sampling Interval - Millisecond	0 (0 to 1000, in 5 ms step)		
Period Start - Year	2021 (2000 to 2159)		
Period Start - Month	9 (1 to 12)		
Period Start - Date	6 (1 to 31)		
Period Start - Hour	1 (0 to 23)		
Period Start - Minute	0 (0 to 59)		
Period Start - Second	0 (0 to 59)		
Period End - Year	2021 (2000 to 2159)		
Period End - Month	e (1 to 12)		
Period End - Date	6 (1 to 31)		
Period End - Hour	17 (0 to 23)		
Period End - Minute	0 (0 to 59)		
Period End - Second	0 (0 to 59)		
	Update Settings		
Reset data logger to empty	Reset Data Logger		

The table describes the parameters contained in the "Data Logger" section.

Item	Description
Status	Display the current status of data logging.
Change Logging	Set the status of data logging. It can be set to Stop, Run, Period, Pause, and Continue.
Overwrite on Full	Whether to overwrite data when it is full. It can be set to Yes or No.
Sampling Interval - Second	The time interval for logging data. (Range: 0-65535, Unit: second)
Sampling Interval - Millisecond	The time interval for logging data. (Range: 0-1000, in 5 ms step)
Period Start- Year, Month, Date, Hour, Minute, Second	The start time for logging data. (Year/Month/Date/Hour/Minute/ Second).
Period End- Year, Month, Date, Hour, Minute, Second	The end time for logging data. (Year/Month/Date/Hour/Minute/ Second).

Reset data logger to empty

Click the "Reset Data Logger" button to remove data.

4.4.7 Analog Output Configuration

0x32: 0 ~ +10V ~		(40392~399)	(40523~530)	Value (40580~587)	OVP Enable (00340~347)	Enable (00769~73
00. 00	0.000	0.000	0x00:Immediate 🗸	0.00	Disabled \checkmark	Disabled ·
0x30: 0 ~ 20mA	0.000	0.000	0x00:Immediate V	0.00	Disabled V	Disabled ·
0x32: 0 ~ +10V	0.000	0.000	0x00:Immediate V	0.00	Disabled V	Disabled •
0x34: 0 ~ +5V	0.000	0.000	0x00:Immediate V	0.00	Disabled \checkmark	Disabled •
0x32: 0 ~ +10V 🗸	0.000	0.000	0x00:Immediate V	0.00	Disabled 🗸	Disabled >
0x32: 0 ~ +10V 🗸	0.000	0.000	0x00:Immediate V	0.00	Disabled 🗸	Disabled >
0x32: 0 ~ +10V 🗸	0.000	0.000	0x00:Immediate V	0.00	Disabled 🗸	Disabled >
0x32: 0 ~ +10V 🗸	0.000	0.000	0x00:Immediate 🗸	0.00	Disabled 🗸	Disabled >
Modbus Format Hexadecimal \to Action: Modbus Read/Write Format Hexadecimal or Engineering Host Timeout (5 ~ 65535 s, <5 = Default Disabled) Action: AO Output Safe Value						
	0x34: 0 ~ +5V 0x32: 0 ~ +10V ~ 0x32: 0 ~ +10V ~ 0x32: 0 ~ +10V ~ 0x32: 0 ~ +10V ~ Hexadecimal ~	0x34: 0 ~ +5V 0.000 0x32: 0 ~ +10V ~ 0.000 Action: Modbus	$0.x34: 0 \sim +5V$ 0.000 0.000 $0x32: 0 \sim +10V \checkmark$ 0.000 0.000 0.000 0.000 0.000	0x34: 0 ~ +5V 0.000 0.000 0x00:Immediate 0x32: 0 ~ +10V 0.000 0.000 0x00:Immediate Hexadecimal Action: Modbus Read/Write Format Hexadecimal or Engine	0.334: 0 ~ +5V 0.000 0.000 0x00:Immediate 0.00 0x32: 0 ~ +10V 0.000 0.000 0x00:Immediate 0.00 0 0.000 0.000 0x00:Immediate 0.00 Immediate 0.000 0.000 0.000 0.000 Immediate 0.000 0.000 0.000 0.000 Immediate 0.000 0.000 0.000 0.000 Immediate 0.000 0.000 0.000 0.000 0.000	$0.334: 0 - +5V$ 0.000 0.000 $0x00:Immediate$ 0.00 Disabled \checkmark $0x32: 0 - +10V \lor$ 0.000 0.000 $0x00:Immediate$ 0.00 Disabled \checkmark $0x32: 0 - +10V \lor$ 0.000 0.000 $0x00:Immediate$ 0.00 Disabled \checkmark $0x32: 0 - +10V \lor$ 0.000 0.000 $0x00:Immediate$ 0.00 Disabled \checkmark $0x32: 0 - +10V \lor$ 0.000 0.000 $0x00:Immediate$ 0.00 Disabled \checkmark $0x32: 0 - +10V \lor$ 0.000 0.000 $0x00:Immediate$ 0.00 Disabled \checkmark $0x32: 0 - +10V \lor$ 0.000 0.000 $0x00:Immediate$ 0.00 Disabled \checkmark $0x32: 0 - +10V \lor$ 0.000 0.000 $0x00:Immediate$ 0.00 Disabled \checkmark Hexadecimal \checkmark Action: Modbus Read/Write Format Hexadecimal or Engineering Disabled \checkmark 0.00 Disabled) Action: AO Output Safe Value

The table describes the parameters contained in the "Analog Output Calibration" section.

Item	Description			
AO Channel				
	Set the data type, Power-on value, Safe value, and Slew Rate for each channel.			
AO0 ~ AO7	Note that the "OVP Alarm Value", "OVP Enable", "Retained Enable" settings are only available for (P)ET-2224CIS, (P)ET- 2228CIS.			
	"OVP" stands for "Over-value Protection" which means when the AO value exceeds the set "OVP Alarm Value", the module will stop outputting values.			
Modbus Format	Set the data format. It can be Hexadecimal or Engineering			
Host Timeout	This parameter is used to configure the Host Watchdog timeout value. If there is no Modbus TCP communication activity for the specified period (the timeout), the AO will be set to the user-defined safe value.			
Update Settings	Click this button to save the changes.			

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4.4.8 AO - Calibration

Calibration		
Now Mode	Change Mod	le
Run	Calibration Mod	de
Channel	Set Output	Set Calibration
0 ~	0 Set	Calibration Apply
1.Use "Calibration Mode" button to enter 2.Select Channel & Type(0x30,0x31,0x32	Calibration mode. 2,0x33,0x34,0x35) for manual calibration, then pre	ess "Update Settings" on top.
		ess "Update Settings" on top.
3.Calibration Type 0x30(20mA) before Ty	/pe 0x31(4mA).	
4.Try the Engineering value(18800~1890	00[20mA], 6900~7100[4mA], 9900~9990[10V], 490	00~4990[5V]), to get the full scale value.
5.Press "Set" to make the output change		
6.DMM(Digit Multimeter) is needed to me	easure the output as close as the full scale value.	
7.Press "Calibration Apply" will calculate	& store the value.	
Note: Use "Restore Defaults" on Netw	ork page, can recover your calibration value fr	om factory default.

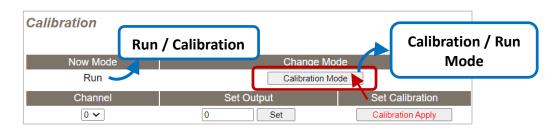
The following table provides parameter notes for the **Calibration** section:

Item	Description		
Calibration			
Now Mode	Used to display the current mode		
Change Mode	Click the Calibration Mode (or Run Mode) button to change the mode		
Channel	Choose the AO channel for calibration		
Set Output	Enter the voltage/current output value		
Set Calibration	Click the Calibration Apply button to perform calibration		

Step1: In the Analog Output Configuration section of the I/O Settings page, Select the Type and Modbus Format, then click the Update Settings button to save the changes.

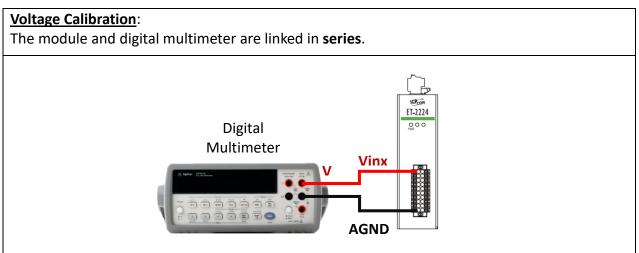
	-			
Analog Output Configurat	ion			
AO Channel	Туре	Power On Value	Safe Value	Slew Rate
	(40459~466)	(40360~367)	(40392~399)	(40523~530)
AO0:	0x32: 0 ~ +10V ∨	0.000	0.000	0x00:Immediate
AO1:	0x32: 0 ~ +10V ∨	0.000	0.000	0x00:Immediate 🗸
AO2:	0x32: 0 ~ +10V 🗸	0.000	0.000	0x00:Immediate 🗸
AO3:	0x32: 0 ~ +10V 🗸	0.000	0.000	0x00:Immediate 🗸
AO4:	0x32: 0 ~ +10V 🗸	0.000	0.000	0x00:Immediate
AO5:	0x32: 0 ~ +10V 🗸	0.000	0.000	0x00:Immediate V
AO6:	0x32: 0 ~ +10V ∨	0.000	0.000	0x00:Immediate V
A07:	0x32: 0 ~ +10V 🗸	0.000	0.000	0x00:Immediate
Modbus Format	Engineering 🗸	Action: Modbus Read/Write For	rmat Hexadecimal or Enginee	ering
Host Timeout (Safe Value/Enable, Seconds)	0	(10 ~ 65000 s, 0 = Default Disa	bled) Action:AO Output Safe	Value
		Update	Settings	

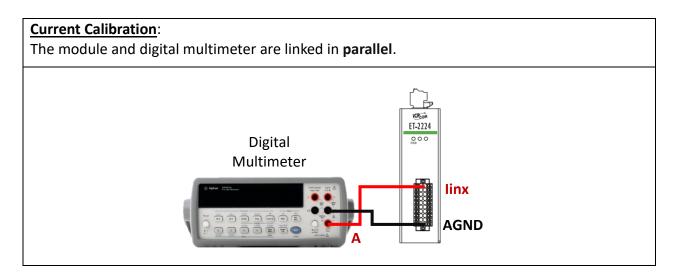
Step2: In the **Calibration** section of the **I/O Settings** page, click the **Calibration Mode** button to get into the calibration mode.



Step3: Choose a channel for calibration and link the module to the digital multimeter.







Step4: In the **Set Output** field, enter a maximum voltage (or current) value in Engineering format and click the **Set** button. Also, check the output value using a digital multimeter. Click the **Calibration Apply** button to perform the calibration.

Туре	+10V	+5V	4mA	20mA
Full-scale Range	9900 ~ 9990	4900 ~ 4990	6900 ~ 7100	18800 ~ 18900

<u>Note</u>: The output voltage (or current) must be very close to the full-scale value.

For example, when calibrating a 10 V output, the output should be between 9900 and 9990. If the digital multimeter displays "10.0315V" while the output is set to 9900, the user can lower the output to the value (9960) that is closest to the 10 V shown on the digital multimeter. Afterward, click the **Calibration Apply** button.

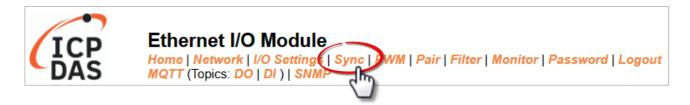
Now Mode	Change Mo	de 3
Calibration	Run Mode	
Channel	1 Set Output	Set Calibration 2
0 🗸	9960 Set	Calibration Apply

Step5: After completing the calibration, click the "**Run Mode**" button to back to the Run mode.

Note: The user can click the **Restore Defaults** button on the **Network** page to restore the settings to the factory defaults.

4.5 Sync

<u>Note:</u> The function is available for **DIO** modules.



The **DIO Synchronization** section on the **Sync** page allows you to configure the Synchronous DIO, Min-switching time of DO, and Auto-off Time of DO for the ET-2200 series module, each of which will be described in more detail below.

4.5.1 DIO Synchronization

DIO Synchronization

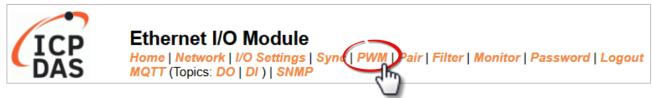
Synchronous DIO (Local Mirror)	Modbus Address	Setting						
Level Sync (DO=DI)	00403 - 00396		Dx0 (CH 7 - 0: C CH 7 - 0: C C C C C C C C C C C C C C C C C C					
Rising Active (DO=ON)	00419 - 00412		ux0 (CH 7 - 0: C CH 7 - 0: C C C C C C C C C C C C C C C C C C					
Falling Active (DO=ON)	00435 - 00428	· · · · · · · · · · · · · · · · · · ·	0x0 (CH 7 - 0: CH 7 - 0: C					
Additional Controls	Modbus Address			Setting				
Min-Switching Time of DO (0 to 65000 Seconds)	40283 - 40268	DO 15:0 DO 11:0 DO 07:0 DO 03:0	DO 14:0 DO 10:0 DO 06:0 DO 02:0	DO 13: 0 DO 09: 0 DO 05: 0 DO 01: 0	DO 12: 0 DO 08: 0 DO 04: 0 DO 00: 0			
Auto-off Time of DO (0 to 65000 Seconds)	40299 - 40284	DO 15:0 DO 11:0 DO 07:0 DO 03:0	DO 14:0 DO 10:0 DO 06:0 DO 02:0	DO 13:0 DO 09:0 DO 05:0 DO 01:0	DO 12:0 DO 08:0 DO 04:0 DO 00:0			
Update Settings								

The table describes the parameters contained in the "**DIO Synchronization**" section.

Item	Description
Synchronous DIO (Local Mire Note:	ror)
ET-2254 supports these fund	tions when low 8-bit is DI0 to DI7 and high 8-bit is DO8 to DO15.
Level Sync (DO = DI)	This parameter is used to enable the synchronization operation in Digital Input/Output function.
Rising Active (DO = ON)	This parameter is used to enable rising activation in the Digital Input function. When the specified DI state changes from OFF to ON, the corresponding DO will be set to ON.
Falling Active (DO = ON)	This parameter is used to enable falling activation in the Digital Input function. When the specified DI state changes from ON to OFF, the corresponding DO will be set to ON.
Additional Controls	
Min-Switch Time of DO (0 to 65535 Seconds)	This parameter is used to set the minimum switching time between the ON and OFF states of the Digital Output. This protects some machines from being damaged by too many ON/OFF switches in a short time.
Auto-off Time of DO (0 to 65535 Seconds)	This parameter is used to set the auto-off time of the Digital Output. If the Digital Output is ON, the Digital Output will be auto-off based on the configured time value.
Update Settings	Click this button to save the changes

4.6 PWM

<u>Note:</u> The function is available for **DIO** modules.



The **PWM Configuration** section on the **PWM** page allows you to enable and configure the PWM parameters for the ET-2200 series module, including the PWM Alarm and duty cycle, etc., each of which will be described in more detail below.

Note: Because of the characteristics of the relay functions, it is recommended that the PWM on the ET-2260/2261/2268 module (i.e., modules with relay functions) is not used for extended periods.

4.6.1 PWM Configuration

PWM Configuration:

PWM Functions	Modbus Address	Setting						
Enable PWM	00107 - 00100	0x0 (CH 7 - 0: C C C C C C C C C C C C C C C C C C						
Enable PWM Alarm	00371 - 00364	Ix0 (CH 7 - 0:						
Duty Cycle	40115 - 40100	DO 07: (0 , 0) DO 06: (0 , 0) DO 05: (1000 , 1000) DO 04: (1000 , 1000) DO 03: (1000 , 1000) DO 02: (1000 , 1000) DO 01: (1000 , 1000) DO 00: (1000 , 1000) (High, Low: 10 ~ 65000 ms, 0= Disable)						
Update Settings								

The table describes the parameters contained in the "PWM Configuration" section.

Item	Description	Defaults
Enable PWM	This parameter is used to enable the PWM output function.	0
Enable PWM Alarm	Enable PWM Alarm This parameter is used to enable the PWM output alarm function when the Host/Slave watchdog timeout.	
Duty Cycle	This parameter is used to set the duty cycle for the DO channels. Two values are required for each DO channel. The first value is the high pulse width, while the second is the low pulse width. The duty cycle is in 1 ms units, and the resolution is approximately 5 ms. (10 to 65535 ms). A value of 0 will disable the duty cycle functions for that channel.	1000 (ms)
Update Settings	Click this button to save the changes.	

Pair Connection 4.7



On the Pair page, within the Pair Connection Settings section, users can enable and configure the I/O pair-connection function of the module using Modbus TCP. This allows for the establishment of logic connections between Local and remote I/O, as explained below.

I/O Pair-Connection Settings 4.7.1

Pair-Connection Settings:											E.g.,	ET-2217	'CI
	PULL Mode: (Remote AI -> Local AO) PUSH Mode: (Local AI -> Remote AO)												
	~5 6~10	`	r v rteme)								
#	# Mode Remote IP			Remote Po	rt Net ID	Scan Time	Al Cour	nt Al Addr	AO Addr	TCP/UDP	Update		
01	Disable 🗸	0.	. 0 .	0.	0	502	1	1000 m	s 0	0	0	TCP 🗸	Submit
02	Disable 🗸	0.	. 0 .	0.	0	502	1	1000 m	s 0	0	0	TCP 🗸	Submit
03	Disable 🗸	0.	. 0 .	0.	0	502	1	1000 m	s 0	0	0	TCP 🗸	Submit
04	Disable 🗸	0.	0.	0.	0	502	1	1000 m	s 0	0	0	TCP 🗸	Submit
05	Disable 🗸	0.	. 0 .	0.	0	502	1	1000 m	s 0	0	0	TCP 🗸	Submit

Note: The configuration page varies based on the I/O type.

The analog input (AI) modules only support the **Push** mode (Local AI to Remote AO).

Pair-Connection Settings:	E.g., ET-2224/28					
Submit 1-4 5-8						
# Enable Mode Remote IPv4 / IPv6 / Host Name (Max. 127 chars)	Remote Port	Net ID	Scan Time (ms)	Al Address		Network Protocol
01 PULL V 0.0.0	502	1	1000	0	0	TCPv4 🗸
02 PULL V 0.0.0	502	1	1000	0	0	TCPv4 🗸
03 PULL V 0.0.0	502	1	1000	0	0	TCPv4 🗸
04 PULL V 0.0.0	502	1	1000	0	0	TCPv4 🗸
Note: Only Support TCP PLILL Mode = Remote ALto Local AO, Data Format must be Engine	pering					

PULL Mode = Remote AI to Local AO. Data Format must be Engineering

The analog output (AO) modules only support the **Pull** mode (Remote AI to Local AO).



Ethernet I/O Module

Home | Network | I/O Settings | Sync | PWM | Pair | Filter | Monitor | Password | Logout MQTT (Topics: DO | DI) | SNMP

Pair-Connection Settings: Submit 1-8 9-16				DI/DO Module			
# Enable Mode Re	emote IPv4 / IPv6 / Host Name (Max. 127 chars) : Port	Net ID	Scan Time (ms)	IO Coun	Local IO Address	Remote IO Address	Network Protocol
01 PUSH ¥ 50	02	1	1000	1	0x:Coil O ♥ 0	0x:Coil O ▼ 0	TCPv4 🗸
02 PULL V 50	02	1	1000	1	0x:Coil O ➤ 0	0x:Coil O ➤ 0	TCPv4 🗸
03 PULL V 50	02	1	1000	1	0x:Coil O ❤ 0	0x:Coil O ❤ 0	TCPv4 🗸
04 PULL - 50	02	1	1000	1	0x:Coil O ✔ 0	0x:Coil O ❤ 0	TCPv4 🗸
05 PULL - 50		1	1000	1	0x:Coil O ❤ 0	0x:Coil O ✓	TCPv4 🗸
06 PULL - 50		1	1000	1	0x:Coil O ✔ 0	0x:Coil O ✓	TCPv4 🗸
07 PULL - 50	12	1	1000	1	0x:Coil O ✔ 0	0x:Coil O ✓	TCPv4 🗸
08 PULL V 50		1	1000	1	0x:Coil O ✔	0x:Coil O ❤	TCPv4 🗸
Note: PULL Mode = R PUSH Mode = L Pair-connection	Remote to Local				-	-	

The table describes the parameters contained in the "I/O Pair-Connection Settings" section.

Item	Description	Defaults
Enable Mode	Used to enable or disable the Client (Master) function and select either PULL or PUSH mode. PULL Mode : To read the remote AI (or DI) and write to the local AO (or DO). PUSH Mode : To read the local AI (or DI) and write to the remote AO (or DO).	Disable
Remote IP	Used to set the IP address or the hostname of the remote module. Before entering the Host Name, ensure that the correct DNS has been set on the Network page.	0
Remote Port	Used to set the TCP port number of the remote device. The valid range is 0 - 65535.	502
Net ID	Used to set the Modbus Net ID of the remote device. The valid range is 1 - 247.	1

Item		Description	Defaults
Scan Time		In " PULL " mode, the module will update its I/O data based on the specified scan time.	
		In "PUSH" mode, If the local DI/AI changes, the module will immediately update the remote DO/AO. Furthermore, even if the local DI/AI remains unchanged throughout the scan time, the module will still update the remote DO/AO.	1000 ms
		The valid range is 1000 to 42949672965 (ms)	
AIO	Al Count	Used to specify how many AI/AO channels are mapped.	0
	AI Address	Used to specify the start address of the analog input.	0
	AO Address	Used to specify the start address of the analog output.	0
	IO Count	Used to specify how many DI/DO channels are mapped.	0
DIO	Local IO Address	Used to select the DI or DO type for the Local site and to enter the starting address. <u>Shared memory is only available for DIO series modules</u> : The DIO (Bit) address ranges from 3000 to 7094 The AIO (Register) address ranges from 3000 to 3254 DI, DO, AI, and AO data share a common memory block. If different types of I/O data are written to the same address, all data will overwrite each other. For more information, refer to Section 5.5 Shared Memory.	0
	Remote IO Address	Used to select the DI or DO type for the Remote site and to enter the starting address.	0
Network Protocol (TCP/UDP)		Used to set the type of Modbus protocol to be used and can be TCPv4/TCPv6 or UDPv4/ UDPv6	TCPv4
Submit		Click this button to save the changes.	

4.8 Filter



The **Filter Settings** section on the **Filter** page allows you to configure the IP Filter list for the ET-2200 series module, which will be described in more detail below.

4.8.1 Filter Settings

The *Filter Settings* function is used to query or set the IP Filter List (Available IP) for the ET-2200 series module. Only Clients whose IP address is specified in the list will be able to access the ET-2200 series module. Note that some of the modules do not support the IPv6 setting.

ilter Setting:
Accessible IP IPv4/v6 Address (example: 10.0.8.123, fe80:0:0:0:a8ee:dc07:1cda:5678)
IP1
IP2
IP3
IP4
IP5
Enable IP Filter Check to enable. (Default disabled)
Jpdate Setting
ote: Remember to include the IP address of your configuration computer.

The table describes the parameters contained in the "IP Address Configuration" section.

Item	Description
IP1 ~ IP5	Enter the accessible IP address (IPv4 or IPv6). Note that remember to enter the IP address of the PC used to configure the module.
Enable IP Filter	Check the item to enable the function (Defaults: Disabled).
Update Settings	Click this button to save the changes.

4.9 Monitor



After clicking the **Monitor** tab, the user can check the connection status of the ET-2200 series module in the **Current Connection Status** section. Note that some of the modules only display IP addresses for the Server mode.

Current	Connec	tion Sta	tus:			
Ser	ver Mode (onnected IP	Server Mode	Connected IP		
	IP1	-	IP2	-		
	IP3	-	IP4	-		
	IP5	-	IP6	-		
	IP7	-	IP8	-		
	IP9	-	IP10	-		
	IP11	-	IP12	-		
Available Co	nnections	32				
Client Mode	Remote IP	Connection S	State Query S	tate Last Query	Time Host Name	
IP1	-	-	-	-	-	
IP2	-	-	-	-	-	
IP3	-	-	-	-	-	
IP4	-	-	-	-	-	
IP5	-	-	-	-	-	
IP6	-	-	-	-	-	
Client Mode	Remote IP	Connection S	State Query S	tate Last Query	/ Time Host Name	
IP7	-	-	-	-	-	
IP8	-	-	-	-	-	
IP9	-	-	-	-	-	
IP10	-	-	-	-	-	
IP11	-	-	-	-	-	
IP12	-	-	-	-	-	

Item	Description
Server Mode (IP1 to IP12)	Display the connected IP address.
Available Connection	When used as a slave device, a maximum of 32 connections is allowed
Client Mode (IP1 to IP12)	Display the remote IP address, the connection state, the request state, the last query time, and the login hostname.

4.10 Change Password



Ethernet I/O Module Home | Network | I/O Settings | Sync | PWM | Pair | Filter | Monito Password Dogout MQTT (Topics: DO | DI) | SNMP

The **Password** page allows you to change the password that used to log in to ET-2200, follow the steps.

- Step 1: Enter the old password in the **"Current password"** field. The first time you change the password, enter the default password "**Admin**".
- Step 2: Enter a new password in the **"New password"** field. (please enter 1 to 12 digits of numbers or characters).
- Step 3: Re-enter the new password in the "Confirm new password" field.
- Step 4: Click the "Submit" button to update the password.

Change Password

The length of the password is 12 characters maximum.

Current password:		
New password	••••	
Confirm new password	••••	Submit



<u>Note:</u> If you forgot the password, refer to Appendix A1. How do I restore the web password for the module to the factory default password?

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4.11 Logout

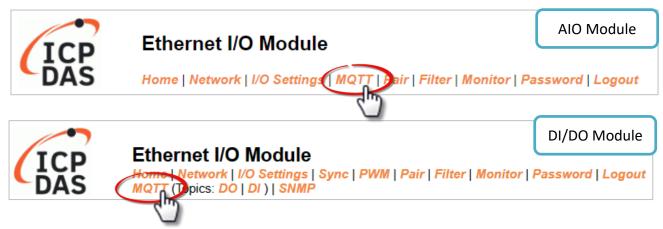


Ethernet I/O Module Home | Network | I/O Settings | Sync | PWM | Pair | Filter | Monitor | Passwort | Log MQTT (Topics: DO | DI) | SNMP

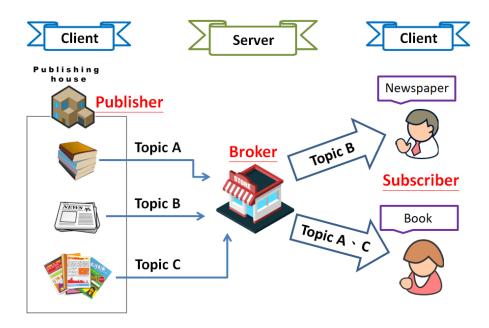
Clicking the *Logout* tab will immediately log out from the system and return to the login page.

The system is logged out. To enter the web configuration, please type password in the following field. Login password: Google Menu / Settings / Show advanced settings / Privacy / Content settings / Javascript / Allow all sites to run JavaScript Chrome: (recommended). Microsoft IE: Menu / Tools / Internet Options / Security / Internet / Custom level... / Scripting / Enable. Firefox: about:config / I'll be careful, I promise! / Preference Name / javascript.enabled / True. When using IE, please disable its cache as follows. Menu items: Tools / Internet Options... / General / Temporary Internet Files / Settings... / Every visit to the page

4.12 MQTT



The MQTT architecture mainly consists of a server (Broker) and clients (Clients). Each MQTT Client requires a unique identifier, and the MQTT Broker identifies users based on these identifiers and records their status, such as subscribed topics and communication quality. Clicking on the **MQTT** tab opens the MQTT settings page.



MQTT is a protocol consisting of a Publish/Subscribe mechanism where the Client only needs to know the IP address of the Broker. The Publisher is responsible for sending topic messages, while the Subscriber is responsible for receiving new messages from the Broker. The Broker then acts as a central location to handle the sending and receiving of all messages between a Publisher and a Subscriber.

When the Publisher updates a message related to a specific topic, it is transmitted to the Broker, which will then send the message to all Subscribers that have subscribed to that particular topic. Neither the Publisher nor the Subscriber needs to know the status of the other.

4.12.1 Connectivity Settings

Connectivity Settings

	Disable 🗸		
Broker	IPv4 / Host Name (Max. 127 chars) 10.0.8.1		
Broker Port	1883 (De	efault= 1883)	
Client Identifier	ET-2260_65E985		
User Name			(Max. 63 chars)
Password			(Max. 63 chars)
Reconnection Interval	10 (5	~ 65000 s, Default= 10)	
Keep Alive Interval		~ 65000 s, Default= 20)	
Main Topic Name	N/A		
	(Max. 126 chars)		
	Updat	te Settings	

The table describes the parameters contained in the "Connectivity Settings" section.

ltem	Description	Defaults
MQTT	Enables or Disables the MQTT connection function.	
Broker	Set the IP address or Hostname of the PC where the MQTT broker is installed. (E.g., broker.emqx.io or broker.hivemq.com)	N/A
Broker Port	The port number for the MQTT broker.	1883
Client Identifier	The client identifier uniquely identifies the MQTT client to the MQTT broker, and consists of the "module name"+ "_" (underscore character) + "the last 6 digits of the MAC address" and cannot be changed.	
User Name	This parameter is used when the MQTT broker requires authentication. The length should be no more than 63 characters.	N/A
Password	This parameter is used when the MQTT broker requires authentication. The length should be no more than 63 characters.	N/A
Reconnection Interval	The time interval between attempts by the ET-2200 module to connect to the broker if a connection failure occurs. The valid range is 5 to 65000 seconds	10(s)

Keep Alive Interval	The keep-alive mechanism is provided to ensure that both the client and the broker are alive and the connection is still open. If a Client doesn't send any messages during the Keep Alive period, it must send a PINGREQ packet to the broker to confirm its availability. The broker must reply with a PINGRESP packet to also indicate its availability. The broker will disconnect a client, which doesn't send a PINGREQ packet or any other message within one and a half times of the Keep Alive Interval. The valid range is 5 to 65000 seconds.	20(s)
Main Topic Name	The Topic Name is a combination of the Main Topic Name and the Sub Topic Name. The Main Topic Name can be empty. The same part of the Topic Names can be entered in the Main Topic Name field to improve the processing efficiency of all Topic Names. A shorter Topic Name also improves processing efficiency.	N/A
Update Settings	Click this button to save the changes.	

4.12.2 Publication Settings

Publication Settings

Publication					
Retain					
Cycle	9000 (100 ~ 2147483000 ms, in 10 ms step, Default= 9000)				
All Information					
Enable	Disable 🗸				
Sub Topic Name	info (Max. 63 chars)				
Last Will and Testament					
Enable					
Retain					
QoS	0 - At most once 🗸				
Торіс	N/A (Max. 63 chars)				
Message	N/A (Max. 63 chars)				
	Update Settings				

The table describes the parameters contained in the "Publication Settings" section.

ltem	Description	Defaults	
Publication			
Retain	Check this option to ensure that the message is retained	Disabled	
Retain	once it is published.	Disabled	
	The time interval that the ET-2200 module periodically		
Cycle	publishes data. The valid range is 100 to 2147483000	9000(ms)	
	milliseconds in intervals of 10 milliseconds.		
All Information			
	This option is used to enable or disable the All Information	Disabled	
Enable	function. All Information adopts Periodic Publish, which		
LINDIC	includes the Module Name, the MAC address, DI, and DO		
	states. The publishing period depends on the Cycle setting.		
	The Topic Name is a combination of the Main Topic Name		
Sub Topic Name	and the Sub Topic Name. A shorter Topic Name improves	info	
	processing efficiency.		

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ltem	Description	Defaults			
Last Will and Testa	Last Will and Testament				
Enable	Check this option to enable the Last Will and Testament function.	Disabled			
Retain	Check this option to ensure that the Last Will and Testament message is retained once it is published.	Disabled			
QoS	The QoS for the Last Will and Testament message.	0 - At most once			
Торіс	The Topic Name for the last will and Testament message. The length should be no more than 63 characters	N/A			
Message	The Last Will and Testament message. The length should be no more than 63 characters.	N/A			
Update Setting	Click this button to save the changes				

4.12.3 Restore Factory Defaults

Restore Factory Defaults

Restore MQTT factory settings	Restore Defaults
Restart MQTT service	Restart Service

The table describes the parameters contained in the "**Restore Factory Defaults**" section.

ltem	Description
Restore MQTT factory settings	Click this button to reset all MQTT settings to the default factory settings.
Restart MQTT	Click this button to restart the MQTT service. This function should be used to
service	reconnect with the Broker after adjusting the MQTT settings.

4.13 MQTT-DO



The DO page is where you can set a full Topic Name, which is a combination of the Sub Topic Name and the Main Topic name. The Publish and Subscribe functions for each DO channel can be enabled or disabled on this page. You can use either a single-channel (DO0...) or multiple channels (ALL) to process the Topic operations. Multi-channel operation is recommended because it can help reduce the amount of network traffic.

In single-channel operation, the values 0 and 1 correspond to the OFF and ON settings, respectively. In multi-channel operation, a hexadecimal value represents the settings for all channels. For example, the value 0xFF00 indicates that channels 0 to 7 are OFF and channels 8 to 15 are ON. Please turn off unused Topics to reduce unnecessary processing, as it will affect operational efficiency.

4.13.1 MQTT – Digital Outputs

MQTT-Digita	IQTT - Digital Outputs Show Hide			
Digital Output	Power-on Publish	Subscribe	Sub Topic Name (Max. 63 chars)	
ALL			do_all	
Digital Output	□ Power-on Publish	Subscribe	Sub Topic Name (Max. 63 chars)	
DO0			do00	
DO1			do01	
DO2			do02	
DO3			do03	
DO4			do04	
DO5			do05	
DO6			do06	
DO7			do07	
Update				

MQTT - Digital Outputs Show Hide

The table describes the parameters contained in the "MQTT – Digital Outputs" section.

ltem	Description	Defaults
Power-on Publish	The DO status will be published when the module is Powered-on. Check the box to enable and uncheck it to disable the function	Disabled
Subscribe	The DO states depend on the updating message of the corresponding Topic. Check the box to enable and uncheck it to disable the function	Disabled
Sub Topic Name	The Topic Name is a combination of the Main Topic Name and the Sub Topic Name. A shorter Topic Name improves processing efficiency.	Corresponding DO
Update	Click this button to save the changes.	

4.13.2 Readbacks of the Digital Outputs

Readbacks of the Digital Outputs Show			Hide	
Readback	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)	
ALL			rb_all	
Readback	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)	
DO0			rb00	
DO1			rb01	
DO2			rb02	
DO3			rb03	
DO4			rb04	
DO5			rb05	
DO6			rb06	
DO7			rb07	
Update				

The table describes the parameters contained in the "Readbacks of the Digital Outputs" section.

ltem	Description	Default Value
State-Change Publish	Publish the message when DO status changes. Please select the box to enable this function or unselect to disable it.	Disabled
Periodic Publish	Publish the DO status periodically according to the Cycle settings. Please select the box to enable this function or unselect to disable it.	Disabled
Sub Topic Name	The Topic Name is a combination of the Main Topic Name and the Sub Topic Name. A shorter Topic Name improves processing efficiency.	Corresponding DO
Update	Click this button to save the changes.	

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4.14 MQTT-DI



The DI page is where you can set the Topic Name, which is a combination of the Sub Topic Name and the Main Topic name. The Publish function for each DI channel can also be either enabled or disabled on this page. You can use either a single-channel (DI0...) or multiple-channels (ALL) to process the Topic operations. Multi-channel operation is recommended because it can help reduce the amount of network traffic.

In single-channel operation, the values 0 and 1 correspond to the OFF and ON settings, respectively. In multi-channel operation, a hexadecimal value represents the settings for all channels. For example, the value 0xFF00 indicates that channels 0 to 7 are OFF, and channels 8 to 15 are ON. Please turn off (uncheck the checkbox) unused Topics to reduce unnecessary processing, as it will affect operational efficiency.

4.14.1 MQTT – Digital Inputs

MQTT - Digital Inputs

Digital Input	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)	
ALL			di_all	
Digital Input	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)	
D10			di00	
DI1			di01	
DI2			di02	
DI3			di03	
DI4			di04	
DI5			di05	
DI6			N/A	
DI7			N/A	
	Update			

The table describes the parameters contained in the "**MQTT – Digital Inputs**" section.

ltem	Description	Default Value
State-Change Publish	Publish the message when DI status changes. Please select the box to enable this function or unselect to disable it.	Disabled
Periodic Publish	Publish the DI status periodically according to the Cycle settings. Please select the box to enable this function or unselect to disable it.	Disabled
Sub Topic Name	The Topic Name is a combination of the Main Topic Name and the Sub Topic Name. A shorter Topic Name improves processing efficiency.	Corresponding DI
Update	Click this button to save the changes.	

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4.15 MQTT-AI

Ethernet I/O Module Home | Network | VO Settings MQTT SNMP | Pair | Filter | Monitor | Password | Logout

Analog Inputs

Analog Input	Periodic Publish	Sub Topic Name (Max. 63 chars)			
AlO		ai00			
Al1		ai01			
Al2		ai02			
Al3		ai03			
Al4		ai04			
AI5		ai05			
Al6		ai06			
Al7		ai07			
	Update				

The table describes the parameters contained in the "MQTT – Analog Inputs" section.

ltem	Description	Defaults
Periodic Publish	To publish AI values regularly based on the Cycle value (see MQTT – Publication Settings). Click the box on the top side to select all channels; click again to deselect all channels.	Disabled
Sub Topic Name	The Topic Name is a combination of the Main Topic Name and the Sub Topic Name. A shorter Topic Name improves processing efficiency.	Corresponding AI
Update	Click this button to save the changes.	

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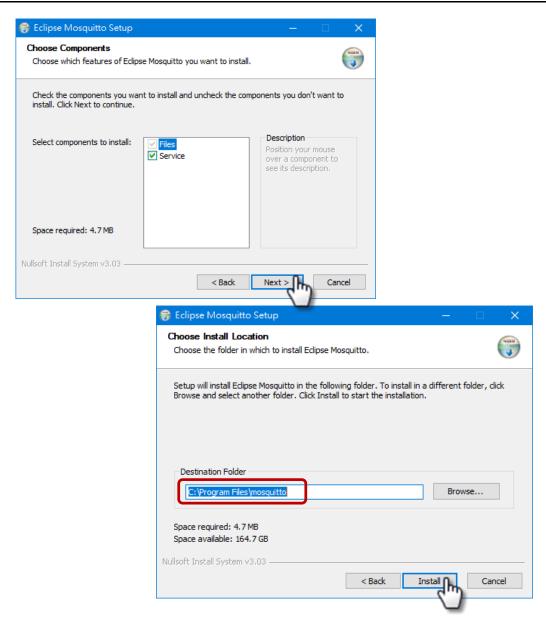
4.16 MQTT Realization

This section described how to use the open-source software Mosquitto and MQTTX to demonstrate the usage of MQTT protocol in conjunction with the ET-2200 series module.

4.16.1 Set up Mosquitto

Mosquitto is an open-source software application that allows users to create an MQTT Broker and can be installed on Windows, Mac OS, Linux, etc. Alternatively, the user can use an online broker such as broker.emqx.io or broker.hivemq.com.

Step1. Download the Installer (V1.6.4) from the official Mosquitto website and install the application.



Step2. Locate the "mosquitto.exe" file in the default installation path and double-click it to enable the Mosquitto server.

← → ∽ ↑ C:\Program Files\Mosquitto ∨ Č	
🚳 mosquitto.dll 🔤 C:\Program Files\Mosquitto\mosquitto.exe —	×
mosquitto.exe	^
mosquitto_ctrl.	
When this window is executing,	
the Broker is enabled. Closing this	
window will disable the Broker.	

Why can't I open "mosquitto.exe" or why does it crash?

Once Mosquitto installation is done, the Broker server is automatically activated upon computer boot-up. Thus, if you try to click on the 'mosquitto.exe' file again, it's akin to attempting to enable an already active broker server, which would result in the action being prevented.

To prevent the broker from automatically opening, you can change the settings in the Windows Services application. If it is not necessary to set it, go to Step 3.

Open the Services application by searching for "Services".

All	Apps	Documents	Settings	Web	More 👻	Feedback	
Best n	natch						
Q,	Services App				<u></u>		
Settin 🔂 C	-	proxy ser ver		>	Services App		

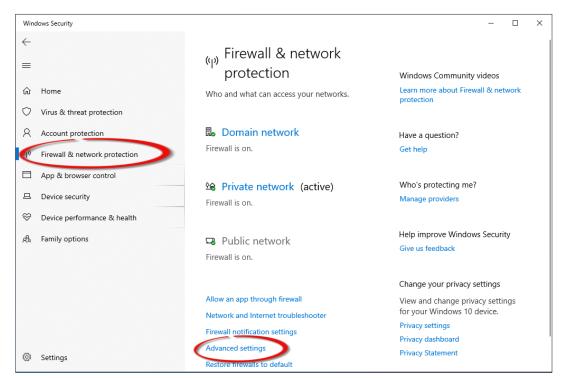
In the **Services** window, locate the "Mosquitto Broker" item and double-click the name to open the **Properties** dialog. Click the **Stop** button and set the **Startup type** to **Manual**. Click **OK** to save your changes.

🔍 Services					—		×
File Action View	Help						
) 🗟 🛛 🖬 🕨 🔲 II ID						
🔍 Services (Local)	Services (Local)						
	Mosquitto Broker	Name	Description	Status	Startup Type	Log On As	^
		🖏 Mosquitto Broker 👔	MQTT v3.1.1 broker		Automatic	Local Syste	em
	Start the service	Nahimic service	Nahimic service	Running	Automatic	Local Syste	em
		🎑 Natural Authenticat	Signal aggregator	Running	Manual (Trigger Start)	Local Syste	em
	Description:	🆏 Net Driver HPZ12			Automatic	Local Servi	ice
	MQTT v3.1.1 broker	🆏 Net.Tcp Port Sharing Service	Provides ability to		Manual	Local Servi	ice
		🆏 Netlogon	Maintains a secur		Manual	Local Syste	em
		🆏 Network Connected Devices Auto-Setup	Network Connect		Manual (Trigger Start)	Local Servi	ice
		🆏 Network Connection Broker	Brokers connectio	Running	Manual (Trigger Start)	Local Syste	em
		🆏 Network Connections	Manages objects i	Running	Manual	Local Syste	em
		🆏 Network Connectivity Assistant	Provides DirectAc		Manual (Trigger Start)	Local Syste	em 🗸
		<					>
	Extended Standard						

Mosquitt	to Broker	Properties (Local Computer)		×
General	Log On	Recovery	Dependencies		
Service	name:	mosquitto			
Display	name:	Mosquitto	Broker		
Descrip	tion:	MQTT v3.	.1 broker		~
	executabl gram Files		osquitto.exe run		
Startup	type: 🌔	Manual	2		~
	e status: Start	Stopped Stop	1 Pause	Resi	Ima
	n specify t		neters that apply when		
Start pa	arameters:		\frown		
			ОК Са	ancel	Apply

Step3. Open Windows Port 1883 (the default Port for the MQTT)

3.1 Open the Advanced Settings section of the Windows Firewall.



3.2 Add a new rule. Click **Inbound Rules** and **New Rule**, and then select the **Port** option. Click the **Next** button to continue.

Pindows Defender Firewall	with Advanced Security				- 🗆 X
File Action View Help					
🗢 🍬 🖄 🖬 🗟 🖬					
Windows Defender nav	und Rules			Actions	
Inbound Rules	1	Group	Profile ^	Inbound Rules	-
🔩 Connection Security R	lash		Private	🗽 New Rule	2
> 🖳 Monitoring	v eflash Ø eflash		Public Private	Filter by Profile	· ·
	🔮 eflash		Private	Filter by State	•
	New Inbound Rule Wizard	I			× •
	Rule Type				•
	Select the type of firewall rule to c	reate.			
	Steps:				
	a Rule Type	What type of rule would you like	to create?		
	Protocol and Ports				
	 Action 	Program Rule that controls	for a program.		
	 Profile 				
	 Name 	Rule that count 3	a TCP or UDP port.		
		O Predefined:			
		AllJoyn Router		\sim	
		Rule that controls connections	s for a Windows experience.		
		 Custom Custom rule. 			
				4	
			< Back	Next > Cancel	
<					
•	> <		7]	

3.3 Select the **TCP** option and then select **Specific local ports** and enter the value **1883**.

Click the **Next** button to continue.

🔗 New Inbound Rule Wiza	ard	×
Protocol and Ports		
Specify the protocols and ports	to which this rule applies.	
Steps:		
Rule Type	Does this rule apply to TCP or UDP?	
Protocol and Ports	(© ТСР)	
 Action 	O ODP	
Profile		
Name	Does this rule apply to all local ports or specific local ports?	
	◯ All local ports	
	Specific local ports:	
	Example: 80, 443, 5000-5010	
	< Back (Next > Cancel	

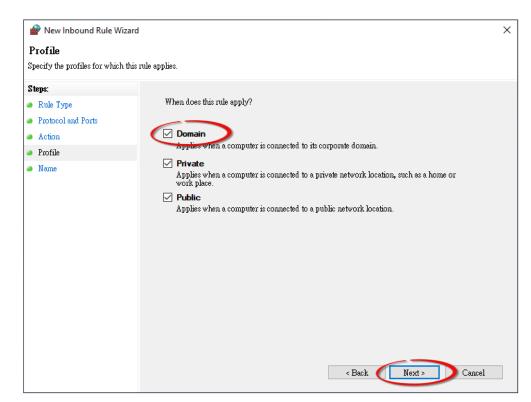
3.4 Select the **Allow the connection** option and then click the **Next** button to continue.

🔗 New Inbound Rule Wizard	1	×
Action		
Specify the action to be taken whe	n a connection matches the conditions specified in the rule.	
Steps:		
Rule Type	What action should be taken when a connection matches the specified conditions?	
Protocol and Ports	Allow the connection	
Action	This includes corrections that are protected with IPsec as well as those are not.	
Profile	\bigcirc Allow the connection if it is secure	
Name	This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Customize Block the connection	
	< Back Next > Cancel	

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3.5 Select the **Domain** checkbox and click the **Next** button to continue.



3.6 Enter the name of the rule and then click the **Finish** button to create the rule. Enter the notes if desired.

Name		
Specify the name and description	nf this rule	
Steps:		
Rule Type	Specify the name and description of this rule	
Protocol and Ports	Specify the name and description of this fale	
Action		
Profile	Name: MQTT Broker	
Name	MQ11 Blokel	
	Description (optional):	
	< Back Finish Cancel	_

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4.16.2 MQTTX Instructions

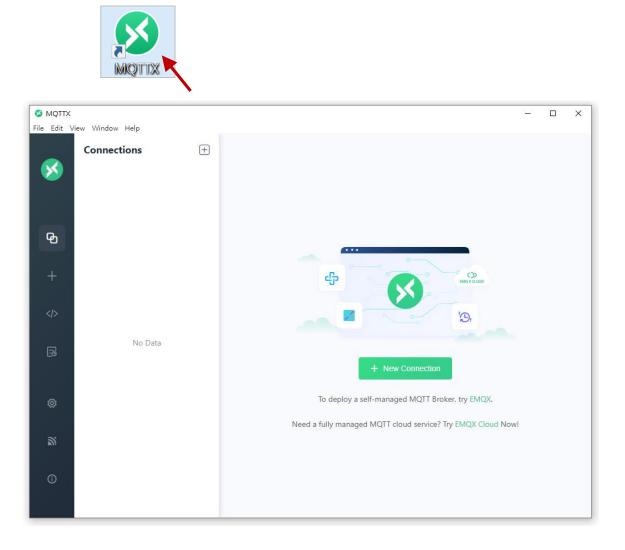
MQTTX is an open source, cross-platform MQTT 5.0 desktop client originally developed by EMQ, which can run on macOS, Linux and Windows.

Step1. Install MQTTX

Download and execute the installation file (V1.9.4) from the MQTTX website (https://mqttx.app/).

Step2. Open MQTTX

After the installation is complete, MQTTX will be automatically opened, and the user can also double-click the shortcut on the desktop to open the software.



Step3. Establish a connection

- 1. Click "+" and then click **New Connection** to establish a connection.
- 2. Enter the Broker name (See Section 4.2.1) and IP address, and click the **Connect** button.

MQTTX File Edit V	iew Window Help	K Back	New	Connect
	New Connection	General Enter	a recognizable name, e.g., Broker	٦
ዋ		* Client ID mqttx_33	53545a	0 0
+		* Host mqtt:// * Port 1883	 I0.0.8.51 Enter the IP address of the MQTT I 	Broker
		Username	(Mosquitto) or broker.emqx.io.	
ß	No Data	Password SSL/TLS		
ŝ		Advanced A		
2		MQTT Version	5.0	~
		Connect Timeout		▲ (s)
0		Keep Alive Auto Reconnect	60	(s)

Step4. If the connection is available, the green light will be displayed.

🛯 ΜΩΤΤΧ				- 🗆 ×
File Edit View Window Help				
Connections	+	Broker 💛 🕕		ڻ <u>ک</u> …
V	3	+ New Subscription	Plaintext ~	All Received Published

Note: If the connection is unavailable, check to see if the version of the Mosquitto Broker is 1.6.4 (see C:\Program Files\mosquitto\ChangeLog.txt), and refer to Set up Mosquitto for installation.

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4.16.3 MQTT - DO Example

The topic name of MQTT is composed of Main Topic Name (e.g., **ICPDAS**/, refer to MQTT page) and Sub Topic Name (e.g., **do_all**), which can be set on the **MQTT - DO** page.



Function	Description	
Subscribe	Used to subscribe to the topic. The DO statuses can be changed through MQTT messages	
Power-on Publish	The DO statuses will be published upon module power-up	
State-Change Publish The DO statuses will be published whenever it changes.		
Periodic Publish	The DO statuses will be published periodically, based on the Cycle settings.	

(A) <u>MQTT DO – Subscribe</u>

Users can choose to enable/disable single-channel (DO0, DO1, etc.) or multi-channel (ALL) for topics operations. It is recommended to use multi-channel operations to reduce network traffic and to disable unused topics to reduce unnecessary processing and improve operational efficiency.

6)

<u>Step1.</u> Log in to the module's Web Server, and click the **Subscribe** option for the "**do_all**" on the MQTT - "**DO**" page to enable the function. After that, click **Update** to save the changes.

MQTT - Digital Outputs Show	Hide		
Digital Output	Power-on Publish	Subscribe	Sub Topic Name (Max. 63 chars)
ALL			do_all
Digital Output	Publish	Subscribe	Sub Topic Name (Max. 63 chars)
DO0			do00
DO1			do01
DO2			do02
DO3			do03
DO4			do04
DO5			do05
DO6			do06 2
DO7			do07
			Update

Step2. Make sure that the MQTT function has been enabled on the **MQTT** page, and the Broker's IP address and the Main Topic Name have been set.

Connectivity Settings

MQTT	Enable 🗸		
Broker	IPv4 / Host Name (Max. 127 chars 10.0.8.51	5)	
Broker Port	1883		
Client Identifier	tPET-P2R2_RevB_65FA7F		
User Name			(Max. 63 chars)
Password		(Max. 63 chars)	
Reconnection Interval	10	(5 ~ 65000 s, Default= 10)	
Keep Alive Interval	20] (5 ~ 65000 s, Default= 20)	
Main Topic Name	ICPDAS/ (Max. 126 chars)		
		Update Settings	

<u>Step3.</u> Enter the message (e.g., 0xF) to be published for the "**ICPDAS/do_all**" topic, and click the button on the right corner to send the message.

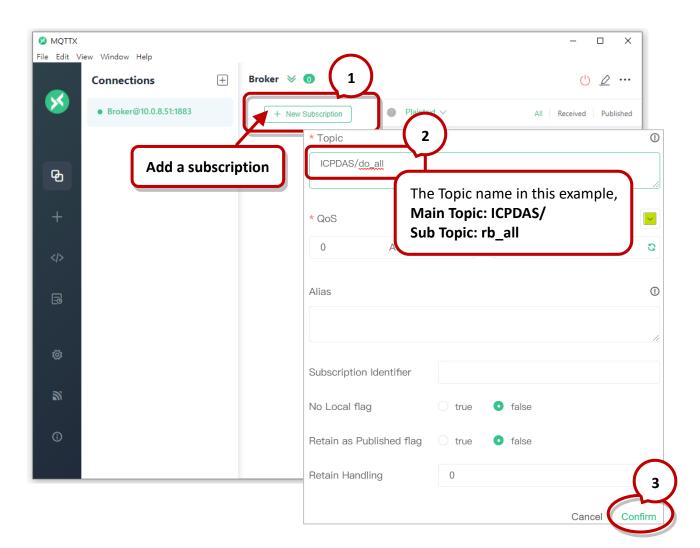
Broker 📎 1		(¹) 🖉 …
+ New Subscription	Plaintext ∨	All Received Published
	3	Topic: ICPDAS/do_all QoS: 0 0xF
		2023–07–25 16:29:38:513
1	Payload: Plaintext V ICPDAS/do_all ØxF	QoS: 0 V O Retain Meta
(1. Enter th	ne Topic name: ICPDAS/do_all ne text to be published: 0xF
		2

<u>Step4.</u> The user can check whether the DO status is correct on the Home page.

The message "0Xf" indicates DO 0-3 = ON, DO 4-7 = OFF

(B) MQTT DO – Power on Publish

<u>Step1.</u> Make sure that the Mosquitto Broker is enabled and the MQTTX is connected. In this example, the topic is "ICPDAS/do_all". Refer to "Set up Mosquitto" and "MQTTX Instructions".



<u>Step2.</u> SLog in to the module's Web Server, and click the **Power-on Publish** option for the "do_all" on the MQTT - "DO" page to enable the function. After that, click **Update** to save the changes.



Ethernet I/O Module Home | Network | Settings | Sync | PWM | Pair | Filter | Monitor | Password | Logout MQTT (Topids: DO | 1) | SNMP

Digital Output	Power-on 1 Publish	Subscribe	Sub Topic Name (Max. 63 chars)
ALL			do_all
Digital Output	Power-on Publish	Subscribe	Sub Topic Name (Max. 63 chars)
DO0			do00
DO1			do01
DO2			do02
DO3			do03
DO4			do04
DO5			do05
DO6			do06 2
DO7			do07

<u>Step3.</u> On the **I/O Settings** page, set the DO power-on value, and then click Update Setting to update the settings.



DI/DO Configuration:

Digital (utput Modbus	Address
Host/Slave Watchdog T	neout 402	257 0 0 (10 ~ 65000 Seconds, Default= 0, Disable= 0) Outputs DO with safe-value or <i>PWM</i> when host/slave timeout.
Enable Safe (Enable Wate	00330	- 00332 0x0 (CH 7 - 0: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Safe	Value 00274 -	- 00267 0x0 (CH 7 - 0: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Power-Or	Value 00242 -	- 00235 0x3 (CH 7 - 0:

The DO0, DO1 will be set to ON when the module starts.

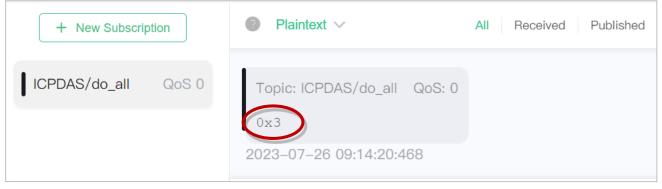
<u>Step4.</u> After the module boots, the DO value will be set to the predefined power-on value.



Digital I/O (Modbus Address: DO=00000 to 00015, DI=10000 to 10015.)			
D07 🕐 D06 🕐 D05 🕻	D04 🕐 D03 🔮	DO2	01 🕑 000 🕑
DI Channel Value (10000)	Counter (30016) / Frequency (30064)	High Latched (10032	Low Latchod (10064)
DIO	-		-
DI1	-	-	-

The DO0, DO1 will be set to ON after rebooting the module.

In addition, users can check the received DO values in MQTTX.



"0x3" indicates DO0 to DO1 are "ON" and the others are "OFF"

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(C) MQTT DO – State Change Publish

<u>Step1.</u> Make sure that the Mosquitto Broker is enabled and the MQTTX is connected. In this example, the topic is "ICPDAS/rb_all". Refer to "Set up Mosquitto" and "MQTTX Instructions".

MQTTX File Edit View V	Window Help		– 🗆 X
Ca	onnections 🕂 Broker 🛛 🕜		<u>ڻ ک</u>
. 🕺 🕛	Broker@10.0.8.51:1883	bscription Plaintex	t V All Received Published
ዋ	Add a subscription	* Topic ICPDAS/rb_all	2
+			e Topic name in this example, in Topic: ICPDAS/
		0 Sub	o Topic: rb_all
ß		Alias	Q
ŝ			,
2		Subscription Identifier No Local flag	🔿 true 💿 false
Ū		Retain as Published flag	🔿 true 💿 false
		Retain Handling	0 3
			Cance Confirm

Step2. Log in to the module's Web Server, and click the State-Change Publish option for the "rb_all" on the MQTT - "DO" page to enable the function. After that, click Update to save the changes.

Readbacks of the Dig	adbacks of the Digital Outputs Show Hide							
Readback	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)					
ALL			[rb_all					
Readback	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)					
DO0			[rb00					
DO1			rb01					
DO2			rb02					
DO3			rb03					
DO4			rb04					
DO5			rb05					
DO6			[rb06					
DO7			rb07					
			Update					

<u>Step3.</u> On the **Home** page, set the DO0 to DO2 to "ON" in sequence.

(5	Hom		ork // 5: DO	Modu O Settin DI) SN	 e gs S MP	ync PW	'M Pair	r Filter	Moni	tor Pa	sswoi	rd Logo	1
Digital I/O (Mod	dbus Addre	ss: DO=00000	to 00015, D	I=10000 to 1001	5.)				_		<u> </u>				
DO7	٢	DO6	٢	DO5	٢	DO4	٢	DO3	0	DO2	0	D01	0	DO0	0

<u>Step4.</u> The user can view the received messages within the MQTTX window.

Broker 📎 3		- □ × (') <u>/</u> …
+ New Subscription	Plaintext ~	All Received Published
ICPDAS/rb_all QoS 0	Topic: ICPDAS/rb_all QoS: 0 0x1 2022 07 43 00.47.52.006 Topic: ICPDAS/rb_all QoS: 0 0x3 2023 07 43 00:47.53.408 Topic: ICPDAS/rb_all QoS: 0 0x7 2023 07.13 09:47:54:188	It will receive messages with all DO statuses whenever it changes. 0x1: 0000 0001 (DO0 = ON) 0x3: 0000 0011 (DO0, DO1 = ON) 0x7: 0000 0111 (DO0, DO1, DO2 = ON)
	Payload: Plaintext V QoS: 0 V Topic	O Retain Meta
	- opro	$\epsilon = \mathfrak{S}$
		<

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(D) <u>MQTT DO – Periodic Publish</u>

<u>Step1.</u> Make sure that the Mosquitto Broker is enabled and the MQTTX is connected. In this example, the topic is "ICPDAS/rb_all". Refer to "Set up Mosquitto" and "MQTTX Instructions".

S MQTTX	ïew Window Help		– 🗆 X
	Connections 🕂 Broker 🛛 🚺		() ∠ …
			All Received Published
ዊ	Add a subscription	* Topic 2 ICPDAS/rb_all	
+			Topic name in this example, n Topic: ICPDAS/
			Topic: rb_all
B		Alias	٥
\$			ß
2		Subscription Identifier No Local flag	true I false
0		Retain as Published flag	🔿 true 💿 false
		Retain Handling	0 3
			Cancel

Step2. Log in to the module's Web Server, and click the Periodic Publish option for the "rb_all" on the MQTT - "DO" page to enable the function. After that, click Update to save the changes.

F	Readbacks of the Dig	ital Outputs Show Hide		
	Readback	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)
	ALL			[rb_all
	Readback	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)
	DO0			00dr
	DO1			rb01
	DO2			rb02
	DO3			rb03
	DO4			rb04
	DO5			rb05
1	DO6			rb06
	DO7			rb07
				Update

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<u>Step3.</u> Go to the MQTT page, set the message publishing cycle (Cycle), and click "Update Setting" to save the changes.



Publication Settings

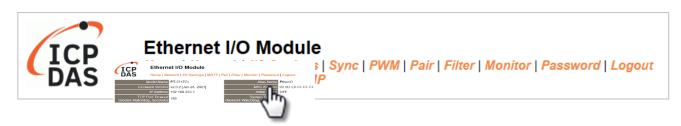
Publicatio				
Retai				
Cycl	9000 (100 ~ 2147483000 ms, in 10 ms step, Default= 9000)			
All Informatio				
Enabl	Disable V			
Sub Topic Nam	info (M	ax. 63 chars)		
Last Will and Testamer	t			
Enabl				
Retai				
Qo	0 - At most once 🗸			
Тор	N/A (M	ax. 63 chars)		
Messag	N/A (M	ax. 63 chars)		
Update Settings				

<u>Step4.</u> The user can view the received messages within the MQTTX window.

Broker 📎		(b) 🖉 …
+ New Subscription	Plaintext ∨	All Received Published
ICPDAS/rb_all QoS 0	Topic: ICPDAS/rb_all QoS: 0 0x0 2023-07-13 15:23:42:755 Topic: ICPDAS/rb_all QoS: 0 0x1 2023-07-13 15:23:51:762 Topic: ICPDAS/rb_all QoS: 0 0x0 2023-07-13 15:23:51:762	Receiving DO statuses periodically. In this case, Cycle = 9 seconds

4.16.4 MQTT - DI Example

The topic name of MQTT is composed of Main Topic Name (e.g., ICPDAS/, refer to MQTT page) and Sub Topic Name (e.g., di_all), which can be set on the **MQTT - DI** page.



The MQTT – DI page provides the following functions:

Function	Description
State-Change Publish	The message will be published when the DI state changes.
Periodic Publish	The DI status is published periodically, and the release cycle is determined by the Cycle setting.

(A) MQTT DI – State Change Publish

Users can choose to enable/disable single-channel (DIO, DI1, etc.) or multi-channel (ALL) for topics operations. It is recommended to use multi-channel operations to reduce network traffic and to disable unused topics to reduce unnecessary processing and improve operational efficiency.

Step1. On the MQTT - **DI** page, click the **State-Change Publish** for the "**di_all**" to enable this function. After that, click **Update** to save the changes.

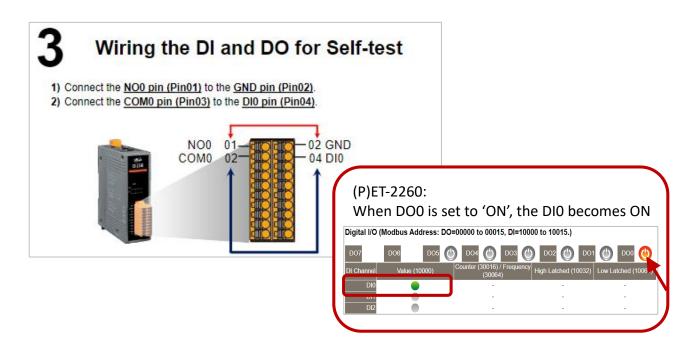
Digital Input	State-Change Pu <u>blis</u> h 1	Periodic Publish	Sub Topic Name (Max. 63 char	
ALL			di_all	
Digital Input	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 cha	
DIO			di00	
DI1			di01	
DI2			di02	
DI3			di03	
DI4			di04	
DI5			di05	
DI6			di06	
DI7			di07	

<u>Step2.</u> Make sure that the Mosquitto Broker is enabled and the MQTTX is connected. In this example, the topic is "ICPDAS/di_all". Refer to "Set up Mosquitto" and "MQTTX Instructions".

MQTTX File Edit Vi	iew Window	Help	•	– 🗆 X
	Connect		roker 🛛 💿 🚺	७ ⊉ …
8	Broker	@10.0.8.51:1883	+ New Subscription Plaintext ~	All Received Published
			Add a subscription	
ዊ		New Subscription		×
+		C	`	
		* Topic 2		0
		ICPDAS/di_all		
		N	ne Topic name in this example, Iain Topic: ICPDAS/	
ŵ		* QoS	ub Topic: di_all	
2		0 At m	ost once 🗸 #91D937	Retain Meta
		Alias		0
()				
		Subscription Identifier		
		No Local flag	🔿 true 💿 false	
		Potain as Published fl		
		Retain as Published fla	ag 🔿 true 💿 false	
		Retain Handling	0	3
			Cancel Con	nfirm

Step3. When the external signal changes, it will also change the DI status, and the module will send an MQTT message. For testing purposes, the user can consult the ET-2200 series Quick Start guide for wiring the I/O.

https://www.icpdas.com/en/download/show.php?num=2628



<u>Step4.</u> The user can view the received messages within the MQTTX window.

Broker 📎 1		() <u>/</u>
+ New Subscription	Plaintext ~	All Received Published
ICPDAS/di_all QoS 0	whenever it ch	nessages with all DI statuses nanges. " 0x1 " indicates the the others are " 0 ".

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(B) <u>MQTT DI – Periodic Publish</u>

<u>Step1.</u> Make sure that the Mosquitto Broker is enabled and the MQTTX is connected. In this example, the topic is "ICPDAS/di_all". Refer to "Set up Mosquitto" and "MQTTX Instructions".

Connections Broker ♥ 0 1 Broker ♥ 0 1 Plaintext ∨ All Received Publish Add a subscription New Subscription ★ Topic 2	ed
Add a subscription + * Topic ()	ed
New Subscription * Topic ①	
+ New Subscription ×	
* Topic (1)	
Topic 2	
ICPDAS/di_all	
The Topic name in this example,	
* QoS Main Topic: ICPDAS/ Sub Topic: di_all	
0 Retain Meta	_
Alias	~
Subscription Identifier	
No Local flag	
Retain as Published flag O true false	
Retain Handling 0	
Cancel Confirm	

Step2. Log in to the module's Web Server, and click the Periodic Publish option for the "di_all" on the MQTT - "DI" page to enable the function. After that, click Update to save the changes.



MQTT - Digital Inputs

Digital Input	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)
ALL			di_all
Digital Input	State-Change Publish	Periodic Publish	Sub Topic Name (Max. 63 chars)
DIO			di00
DI1			di01
DI2			di02
DI3			di03
DI4			di04
DI5			di05
DI6			di06
DI7			di07
		ч <u> </u>	Update

<u>Step3.</u> Go to the MQTT page, set the message publishing cycle (Cycle), and click "Update Setting" to save the changes.



Ethernet I/O Module

ome Network | I/O Settings | Sync | PWM | Pair | Filter | Monitor | Password | Logout IQTT (ppics: DO | DI) | SNMP

Publication Settings		
Publicatio		
Retai		
Cycl	9000 (100 ~ 2147483000 ms, in 10 ms step, Default= 9000)	
All Information		
Enabl	e Disable 🗸	
Sub Topic Nam	nfo (Max. 63 chars)	
Last Will and Testamen	t	
Enabl		
Retai		
Qo	0 - At most once 🗸	
Торі	c N/A (Max.	. 63 chars)
Messag	e N/A (Max.	. 63 chars)
	Update Settings	

<u>Step4.</u> The user can view the received messages in the MQTTX window.

The **Cycle** setting is set to 9 seconds in this example. MQTTX will receive a message with all DI statuses per nine seconds.

Broker 📎 137		
+ New Subscription	Plaintext ∨	All Received Published
ICPDAS/di_all QoS 0	Topic: ICPDAS/di_all QoS: 0 0x1 2023-07-26 15:01:31:09	
	Topic: ICPDAS/di_all QoS: 0)
All statuses of DI channels 0x1: 0000 0001 (DO0 = ON)	2023–07–26 15:01:40:05	
0x0: 0000 0000 (OFF)	Topic: ICPDAS/di_all QoS: 0	
	2023-07-26 15:0 :49:806	

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4.16.5 MQTT - AI Example

ICP	Ethernet I/O Module Home Network I/O Setting MQTT Topics: AI) NMP Filter Monitor Password Logout
	(Int)

On the MQTT page, enter "broker.emqx.io" in the Broker field and enter "ICPDAS/" in the Main Topic Name field, then click the Update Settings button. Keep the value "9000" in the Cycle field.

Connectivity Settin	ngs				
MQTT	Enable 🗸				
Broker	IPv4 / Host Name (Ma broker.emqx.io	x. 127 chars)	Online MQTT broker	: broker.emqx.io	
Broker Port	1883	(De	efault= 1883)		
Client Identifier	P/ET-2215H-16_FFFFFF				
User Name				(Max. 63 chars)	
Password				(Max. 63 chars)	
Reconnection Interval	10	(5	~ 65000 s, Default= 10)		
Keep Alive Interval	20	(5	~ 65000 s, Default= 20)		
Main Topic Name	ICPDAS/ (Max. 126 chars)				
		Upda	te Settings		
Publication Settings					
Pub	olication				
	Retain				
	Cycle 9000	100 ~ 21474	83000 ms, in 10 ms step, Defa	ault= 9000)	

On the **MQTT – AI** page, choose the **AIO** and **AI1** channels then click the **Update** button.

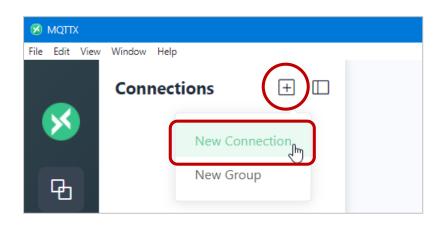
Analog Input Channel	Periodic Publish	Sub Top	Sub Topic Name (Max. 63 chars)	
AI0		ai00		
Al1		ai01		
Al2		ai02		
AI3		ai03		
Al4		ai04		
AI5		ai05		
AI6		ai06		
AI7		ai07		

(A) <u>MQTT AI – Periodic Publish</u>

Publish the AI values periodically according to the Cycle settings.

Step1. Add a Connection

Also refer to MQTT page. The online public MQTT broker (broker.emqx.io) wii be used in this example. Click " + " and select the **New Connection** to add a connection.



Enter a name that easy to identified (e.g., Broker) in the **Name** field and enter the host name of online MQTT broker (e.g., broker.emqx.io), then click the **Connect** button.

Connections	+	K Back	New	Connect
		General		
		* Name	Broker	0
		* Client ID	mqttx_4ef22dd0	C O
		* Host	mqtt:// v broker.emqx.io	Online MQTT broker
No Data		* Port	1883	broker.emqx.io

If the connection is successful, a green light will illuminate. To cancel the connection, simply click the red power button.

Connections +	Broker 😣 🕕	
Bipker@broker.emqx	+ New Subscription	Plaintext V All Received Published

Step2. Add the subscription of Topics

In this example, there are two topics (i.e., ICPDAS/ai00, ICPDAS/ai01) will be subscribed. Click the "**New Subscription**" button and enter "**ICPDAS/ai00**" in the Topic field, then click the "**Confirm**" button.

Broker ४ 🕕		Ċ	þ	0	
+ New Subscription	Plaintext 🗸	All Re	ceived	Publ	lished
New Subscription				×	
* Topic				0	
	opic name in this example, Topic: ICPDAS/				
* QoS Sub To	t once v #A68040	J		2 2	
Alias				0	
				1	
Subscription Identifier					
No Local Flag	🔿 true 💽 false				
Retain as Published Flag	🔵 true 💿 false				
Retain Handling	0		~		
		Cancel	Confin	m	

Using the same way to subscribe the "ICPDAS/ai01" topic.

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Step3. View the messages of the subscribed Topics

In this case, the user subscribed messages will be published per nine seconds from the MQTT Broker. The PET-2215H-16 module features the open wire detection. When the AI value reads **-9999.9**, it indicates that the channel is disconnected. Check the wiring of the AI1.

Broker ४ ₆₅	(¹) 🗇 🖉 …
+ New Subscription	Plaintext V All Received Published
ICPDAS/ai00 QoS 0	Topic: ICPDAS/ai00 QoS: 0
ICPDAS/ai01 QoS 0	+025.26 2024-05-07 13:49:51:590
	Topic: ICPDAS/ai01 QoS: 0
	2024-05-07 13:49:51:757
	Topic: ICPDAS/ai00 QoS: 0 +027.39
	2024-05-07 13:50:00:593

After reconnecting the wiring, the subscribed AI1 messages will be displayed every 9 seconds.

ICPDAS/ai00	QoS 0	Topic: ICPDAS/ai01 QoS: 0
ICPDAS/ai01	QoS 0	+031.23 2024-05-07 14:17:07:543
		Topic: ICPDAS/ai01 QoS: 0
		+029.61 2024-05-0714:17:16:502

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4.17 SNMP

The "SNMP" page provides the function for ET-2200 to send module information and I/O information to the SNMP Network Management Software or device to help administrators to monitor the status of the ET-2200 in real time.

If the Trap function is enabled, ET-2200 can actively send messages to the SNMP manager to keep track of data when the I/O status of the module changes or restarts. The detailed description is as follows.

Note:

For DI/DO modules:

SNMP function is available for **Firmware v2.3.4** and later. It is not supported for older versions. **For AI/AO modules**:

SNMP function is available for Firmware v1.60 and later. It is not supported for older versions.



Note:

ET-2200 currently supports these MIB-II management items such as sysContact, sysLocation, sysDescr, and sysName.

4.17.1 SNMP Agent Configuration

SNMP v2c Agent Configuration

System Info		Setting
Contact	User	(Max. 47 chars)
Location	Site	(Max. 47 chars)
Description	EtherIO	(Max. 47 chars)
Name	Device	(Max. 47 chars)
Function		Setting
Read-Only Community	public	(Max. 47 chars, example: public)
Read-Write Community	private	(Max. 47 chars, example: private)
Trap Community	public	(Max. 47 chars, example: public)
Manager / Trap IP #1	0.0.0.0] (IPv4/v6 Address, example: 10.0.8.123, fe80:0:0:0:a8ee:dc07:1cda:5678)
Manager / Trap IP #2	0.0.0.0]
Generic Trap	Cold Start, Warm Start	
Enable SNMP	Check to enable. (Default disabled)	
	Update	Settings

The table describes the parameters contained in the "System Info" section.

ltem	Description	Default Value
Contact	The SNMP server's contact person	User
Location	The server's location	Site
Description	The description of the device displayed on the Server	EtherIO
Name	The name of the device displayed on the Server	Device

The table describes the parameters contained in the "Function" section.

ltem	Description	Default Value
Read-Only Community	Set the community name of the module for read-only data	public
Read-Write Community	Set the community name of the module for read-write data	private
Trap Community	Set the community name of the module for the trap	public
Manager / Trap IP #1	Set the IP address of Trap IP #1	0.0.0.0
Manager / Trap IP #2	Set the IP address of Trap IP #2	0.0.0.0
Generic Trap	Select to enable the Cold Start or Warm Start function	Disabled
Enable SNMP	Select the box to enable the SNMP communication function and deselect to disable it	Disabled
Update Settings	After saving the settings, also reboot the module to take effe	ect

4.17.2 SNMP Specific Trap

SNMP Specific Trap						
Digital Input		State-Change /	Specific ID (1-	255)		
All 🗆 🛽	A single trap contains all DI st	ates when any DI ch	langes.			
□ DI 7 - 0 DI7:	DI6: DI5: 1	DI4:	DI3:	DI2:		DI0:
Digital Output		State-Change /	Specific ID (1-	255)		
All 🗌 🛽	A single trap contains all DO s	tates when any DO	changes.			
■ _{DO 7 - 0} DO7:	DO6: DO5: 1	DO4:	DO3:	DO2:	DO1:	DO0:
		Update Settings				
Reboot is required after SN	MP configuration.					

The table describes the parameters contained in the " **Digital Input/ Digital Output** " section.

ltem	Description
Digital Input	
All	All DI channels share a single Trap. Check the box to send a Trap message when
	any DI status changes. "Specific ID" is the ID number set for this Trap
DI 7-0	Each DI channel has a specific Trap. Check the box to enable the Trap function
017-0	for that DI channel. "Specific ID" is the ID number set for individual channel
Digital Output	
All	All DO channels share a single Trap. Check the box to send a Trap message when
АП	any DO status changes. "Specific ID" is the ID number set for this Trap.
DO 7-0	Each DO channel has a specific Trap. Check the box to enable the Trap function
007-0	for that DO channel. "Specific ID" is the ID number set for individual channel
Update	After changing and caving the settings, also reheat the module to take effect
Setting	After changing and saving the settings, also reboot the module to take effect
Reboot	Click the button to reboot the module

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SNMP Specific Trap

Analog Output	State-Change	Specific ID (1-255)
AO0		1
AO1		1
AO2		1
AO3		1
AO4		1
AO5		1
AO6		1
AO7		1
	Update	Settings

The table describes the parameters contained in the " **Analog Output** " section.

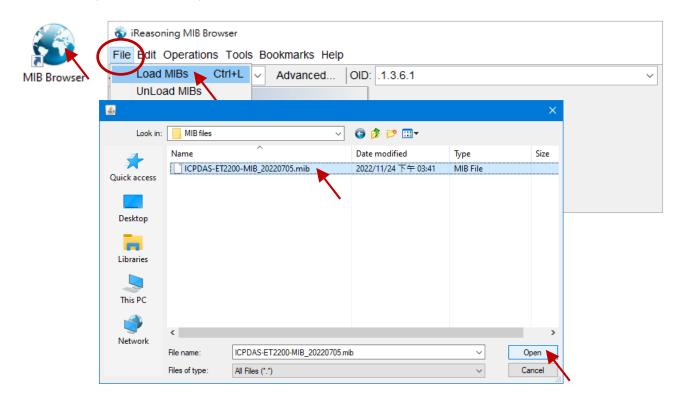
Item	Description
Analog Output	
AO 7-0	Each AO channel has a specific Trap. Check the box to enable the Trap function for that AO channel. "Specific ID" is the ID number set for individual channel
Update Setting	After changing and saving the settings, also reboot the module to take effect
Reboot	Click the button to reboot the module

4.17.3 SNMP I/O Example

In this article, we use **iReasoning MIB Browser** as an example. Please download the installer (V14) from its official website and run the installer.

http://www.ireasoning.com/mibbrowser.shtml

Step1. Start the iReasoning MIB Browser. Click the File → Load MIBs on the menu bar and click the specified MIB file of the module (e.g. ICPDAS-ET2200-MIB_20220705.mib), then click the Open button to open it.



<u>Step2.</u> Enter the IP address of the ET-2200 module in the **Address** field.

🚳 iReasoning MIB Browser	
File Edit Operations Tools Bookmarks Help	
Address: 10.0.8.169 ~ Advanced OID: .1.3	
SNMP MIBs	Result Table
n MIB Tree	Name/OID
iso.org.dod.internet	

Step3. Click "Advanced..." to set the parameters of the SNMP agent. Enter the string in the Read/Write Community fields according to the Read-Only Community / Read-Write Community settings on the ET-2200. If these strings are different on both sides, the agent will not work correctly.

Function					Setting	
Read-Only Community public				(Max. 4	17 chars, example: pu	blic)
Read-Write Community private	÷			(Max. 4	17 chars, example: pri	vate)
 iReasoning MIB Browser File Edit Operations Tools B Address: 10.0.8.169 SNMP MIBS MIB Tree 		ks Help vanced OID: .1.3		Result Table	Name/OID	
iso.org.dod.internet						
Enter the string accor to the settings on ET-2	-	Advanced Propertion			×	
		Port	161			
	ſ	Read Community	public			
	l	Write Community	private			
		SNMP Version	2		~	
			Ok	Cancel		

Note: If the **Write Community** field is not set, a Timeout error will occur during execution.

<u>Step4.</u> Enter the IP address of iReasoning MIB Browser in the Manager/Trap IP #1 field and enable the SNMP function, then click Update Settings to save the changes, and finally click the **Reboot** button to reboot the ET-2200 module.

Function			Setting
Read-Only Community			(Max. 47 chars, example: public)
Read-Write Community	private		(Max. 47 chars, example: private)
Trap Community	public		(Max. 47 chars, example: public)
Manager / Trap IP #1	10.0.8.17		(IPv4/v6 Address, example: 10.0.8.123, fe80:0:0:0:a8ee:dc07:1cda:5678)
Manager / Trap IP #2	0.0.0.0		
Generic Trap	Cold Start,	Warm Start	
Enable SNMP	Check to enabl	e. (Default disabled)	
		Update	Settings
Reboot is requ	ired after SNM	P configuration.	

Read the information of the ET-2200 – the Walk command

To do: Right-click the **iso.org.dod.internet** folder on the left side and click **Walk** to display the information of the ET-2200 in the **Result Table**.

Edit Operations Tools Bookmarks H ess: 10.0.8.169 V Advance			~	Operations: Get Next	~ 6
P MIBs	Result Table				
B Tree		Name/OID	Value	Type	IP:Port
iso.org.dod.internet	sysDescr.0	Name/OID	EtherlO	Type OctetString	
Find in subtree	sysObjectID.0		icpdas	OID	10.0.8.16
Export to CSV					10.0.8.16
Export to XML	sysUpTime.0 sysContact.0		48 minutes 46.13 seconds		
Expand subtree			User	OctetString	
Graph View Ctrl+R	sysName.0		Device	OctetString	
Get Next Ctrl+N	sysLocation.0		Site	OctetString	
Get Bulk Ctrl+B	sysServices.0		72	Integer	10.0.8.16
Get Subtree Ctrl+E	ifNumber.0			Integer	10.0.8.16
Walk Ctrl+W	ifIndex.1		1	Integer	10.0.8.16
Table New Ctrl+T	ifDescr.1		e0	OctetString	
•	ifType.1		ethernetCsmacd (6)	Integer	10.0.8.16
	ifMtu.1		1500	Integer	10.0.8.16
	ifSpeed.1		100000	Gauge	10.0.8.16
	ifPhysAddress		00-0D-E0-A1-8A-9F	OctetString	
	ifAdminStatus.		up (1)	Integer	10.0.8.16
	ifOperStatus.1		up (1)	Integer	10.0.8.16
	ifLastChange. ifInOctets.1	1	0 millisecond (0)	TimeTicks	10.0.8.16
Result Table					
N	ame/OID		Value	Туре	e IP:Por
snmpEnableAuthenTraps.0		disabled (2)		Intege	192.168
.1.3.6.1.2.1.11.31.0		0			er32 192.168
1.3.6.1.2.1.11.32.0		0			er32 192.168
modelName.0 aliasName.0		P/ET-2217			
		Eth and Q			tring 192.168
		EtherIO	0131	OctetS	tring 192.168
firmwareVersion.0		v01.6.0 [202210	013]	OctetS OctetS	tring 192.168 tring 192.168
firmwareVersion.0 webServerPort.0			013]	OctetS OctetS Integer	tring 192.168 tring 192.168 192.168
firmwareVersion.0		v01.6.0 [202210 80	013]	OctetS OctetS	tring 192.168 tring 192.168 192.168 192.168
firmwareVersion.0 webServerPort.0 modbusTcpPort.0		v01.6.0 [202210 80 502	013]	OctetS OctetS Integer Integer	tring 192.168 tring 192.168 192.168 192.168 192.168
firmwareVersion.0 webServerPort.0 modbusTcpPort.0 modbusTcpNetID.0		v01.6.0 [202210 80 502 1	013]	Octets Octets Integer Integer Integer	tring 192.168 tring 192.168 192.168 192.168 192.168 192.168 192.168
firmwareVersion.0 webServerPort.0 modbusTcpPort.0 modbusTcpNetID.0 ailndex.1 ailndex.2 ailndex.3		v01.6.0 [202210 80 502 1 1 2 3	013]	Octets Octets Intege Intege Intege Intege Intege	tring 192.168 tring 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168
firmwareVersion.0 webServerPort.0 modbusTcpPort.0 ailndex.1 ailndex.2 ailndex.3 ailndex.4		v01.6.0 [202210 80 502 1 1 2 3 3 4	013]	Octets Octets Integer Integer Integer Integer Integer Integer Integer Integer Integer	tring 192.168 tring 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168
firmwareVersion.0 webServerPort.0 modbusTcpPort.0 ailndex.1 ailndex.2 ailndex.3 ailndex.4 ailndex.5		v01.6.0 [202210 80 502 1 1 2 3 3 4 5	013]	Octets Octets Integer	tring 192.168 tring 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168
firmwareVersion.0 webServerPort.0 modbusTcpPort.0 ailndex.1 ailndex.2 ailndex.3 ailndex.4 ailndex.5 ailndex.6		v01.6.0 [202210 80 502 1 1 2 3 3 4 5 6	D13] D13] D13 D13 D13 D13 D13 D13	Octets Octets Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer	tring 192.168 tring 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168
firmwareVersion.0 webServerPort.0 modbusTcpPort.0 modbusTcpNetID.0 alindex.1 alindex.2 alindex.3 alindex.4 alindex.5 alindex.6 alindex.7		v01.6.0 [202211 80 502 1 1 2 3 4 5 6 6 7	D13] D13] D13] D13] D13] D13 D13	Octets Octets Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer	tring 192.168 tring 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168
firmwareVersion.0 webServerPort.0 modbusTcpPort.0 modbusTcpNetID.0 alindex.1 alindex.2 alindex.3 alindex.4 alindex.5 alindex.6 alindex.7 alindex.8		v01.6.0 [20221 80 502 1 1 2 3 4 5 6 7 8	013]	Octets Octets Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer	tring 192.165 tring 192.165 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166
firmwareVersion.0 webServerPort.0 modbusTcpPort.0 modbusTcpNetID.0 alindex.1 alindex.2 alindex.2 alindex.4 alindex.5 alindex.6 alindex.6 alindex.7 alindex.8 alindex.8 alindex.1		v01.6.0 [202211 80 502 1 1 2 3 4 5 6 6 7		Octets Octets Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer	tring 192.168 tring 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168 192.168
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firmwareVersion.0 webServerPort.0 modbusTcpPort.0 modbusTcpNetID.0 alindex.1 alindex.2 alindex.3 alindex.4 alindex.6 alindex.6 alindex.7 alindex.8 alindex.8 alindex.8 alindex.8 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9 alindex.9		v01.6.0 [20221] 80 502 1 2 3 4 5 6 7 8 Al0 Al1 Al2 Al3 Al4 Al5 Al6 Al7 +0.003V +0.003V +0.003V +0.003V	The information or	Cetes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Cotes Co	tring 192.166 tring 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 192.166 tring 192.166 tring 192.166

Control the DO channel to ON/OFF – the SET command

To do: Right-click the **doValue** entry in the **Result Table** and click **Set** to display the **SNMP SET** dialog box. Enter the value 0 (OFF) or 1 (ON) in the **Value** field to set the DO value.

Result Table					
Name/OID		Vi	alue	Туре	IP:Port
doName.1		DO0		OctetString	10.0.8.16
doName.2		DO1		OctetString	10.0.8.16
doName.3		DO2		OctetString	10.0.8.16
doName.4		DO3		OctetString	10.0.8.16
doName.5		DO4		OctetString	10.0.8.16
doName.6		DO5		OctetString	10.0.8.16
doValue.1		off (0)			<u>10.0.8.</u> 16
doValue.2		on (1)	Get		Ctrl+G 16
doValue.3		off (0)	Get Next Get Bulk		Ctrl+N Ctrl+B
doValue.4		off (0)	Set Duk		Ctrl+S
doValue.5		off (0)	Walk		Ctrl+W 16
doValue.6	🔬 SNMP SET				
doValue.6					
doIndex.1	OID	.1.3.6.1.4.1.34321.20.	1.2.2.1.3.1		
doIndex.2	Data Tura		I		
doIndex.3	Data Type	Integer			
doIndex.4	Value	{off(0), on(1) }			
doIndex.5					
doIndex.6					
doName.1			Ok Cancel		
			on ounour		

After setting the value, execute the Walk command by right-clicking the **iso.org.dod.internet** folder on the left side of the window to update the value.

Set the outputs of the AO channel – the SET command

<u>To do</u>: Right-click the **aoValue** entry in the **Result Table** and click **Set** to display the **SNMP SET** dialog box. Enter the value **1.000** (output 1V) in the **Value** field to set the AO value.

Name/OID		Value	Туре	IP:Port /
snmpEnableAuthenTraps.0		disabled (2)	Integer	192.168.1
1.3.6.1.2.1.11.31.0		0	Counter32	192.168.1
1.3.6.1.2.1.11.32.0		0	Counter32	192.168.1
nodelName.0		P/ET-2228	OctetString	192.168.1
aliasName.0		EtherlO	OctetString	192.168.1
irmware∨ersion.0		v01.6.0 [20221013]	OctetString	192.168.1
webServerPort.0		80	Integer	192.168.1
modbusTcpPort.0		502	Integer	192.168.1
modbusTcpNetID.0		1	Integer	192.168.1
aoIndex.1		1	Integer	192.168.1
aoIndex.2		2	Integer	192.168.1
aoIndex.3		3	Integer	192.168.1
aoIndex.4		4	Integer	192.168.1
aoIndex.5		5	Integer	192.168.1
aoIndex.6		6	Integer	192.168.1
aoIndex.7		7	Integer	192.168.1
aoIndex.8		8	Integer	192.168.1
aoName.1		AOD	OctetString	192.168.1
aoName.2		A01	OctetString	192.168.1
aoName.3		A02	OctetString	192.168.1
aoName.4		A03	OctetString	192.168.1
aoName.5		A04	OctetString	192.168.1
aoName.6		A05	OctetString	192.168.1
aoName.7		A06	OctetString	192.168.1
aoName.8		A07	OctetString	192.168.1
aoHexValue.1 Get	Ctrl+G	+0.000V	OctetString	192.168.1
aoHexValue.2 Get Next	Ctrl+N	+0.000\/	Octotetring	102 169,1
aoHexValue.3 Get Bulk	Ctrl+B	+ 😪 SNMP SET		× <u>.</u> 1
aoHexValue.4 Set	Ctrl+S	+		.1
aoHexValue.5 Walk	Ctrl+W	+ OID .1.3.6.1.4.1.34321.20.1.2.4.1	1.3.1	.1
aoHexValue.6 Find in Tree (double)	click)	+		1
aoHexValue.7 Copy		 Data Type OctetString 		~ 1
aoHexValue.8 Delete		+		1
aoHexValue.8		(¢ Value 1.000		.1
		Ok Cancel		

After completing the setting, execute the **Walk** command by right-clicking the **iso.org.dod.internet** folder on the left side of the window to update the value.

aoName.7	A06	OctetString	192.168
aoName.8	A07 👩	OctetString	192.168
aoHexValue.1	+1.001V	OctetString	192.168
aoHexValue.2	+0.000V	OctetString	192.168
aoHexValue.3	+0.000V	OctetString	192.168

4.17.4 SNMP Trap Example

<u>Step1.</u> Click Tools → Trap Receiver on the menu bar to display the window for receiving the Trap messages.

🚳 iReasoning MIB Brow					- 🗆 X
	Tools Blokmarks Help Trap Receiver Cti			Occurritions Oct Next	-h o-
Address: 10.0.8.169 SNMP MIBs	Trap Sender Ping Trace Route	Result Table Trap Receiver	×	Operations: Get Next	- 🧼 Go
iso.org.dod.inter	Network Discovery	> 🐼 🎦 🏹 🤞			
	Manage SNMPv3 USM Users	Description	Source	Time	Severity
	Compare Devices	pecific: 10; icpdas	10.0.8.169	2022-11-11 15:50:42	
	Port View	pecific: 11; icpdas	10.0.8.169	2022-11-11 15:50:42	
	Switch Port Mapper	pecific: 2; icpdas	10.0.8.169	2022-11-11 15:50:42	
	Device Snapshot	pecific: 9; icpdas	10.0.8.169	2022-11-11 15:50:42	
	Cisco Device Snapshot	pecific: 4; icpdas	10.0.8.169	2022-11-11 15:50:42	
		pecific: 5; icpdas	10.0.8.169	2022-11-11 15:50:42	
	Log Window	pecific: 8; icpdas	10.0.8.169	2022-11-11 15:50:42	
	Options	pecific: 7; icpdas	10.0.8.169	2022-11-11 15:50:42	
		Specific: 3; icpdas	10.0.8.169	2022-11-11 15:50:42	
		Specific: 1; icpdas	10.0.8.169	2022-11-11 15:50:42	
		Specific: 6; icpdas	10.0.8.169	2022-11-11 15:50:42	
		Specific: 0; icpdas	10.0.8.169	2022-11-11 15:50:42	
		warmStart	10.0.8.169	2022-11-11 15:50:41	

Step2. The Trap types for the alarms that receive from the ET-2200 module are as follows.

1. Cold Start Trap:

The Cold Start Trap will be sent when the module restarts after it has been completely powered off.

2. Warm Start Trap:

The Warm Start Trap will be sent when the module restarts without turning off the power. For example, the reboot command or the watchdog mechanism.

3. Specific Trap (DI/DO/AO State-Change):

When the specified DO/DI/AO channel is enabled, if the I/O status changes (e.g., ON/OFF or value change), a Trap message with a Specific ID, source IP, and time will be sent. This makes it easier to analyze the cause of the alarm and handle it appropriately.

Click the Trap message to view the details

🜔 🔕 🎦 🏹 🤞						
Description			Source	Time		Severity
Specific: 1; icpdas			10.0.8.169	2022-11-14 14:	22:58	
Specific: 1; icpdas			10.0.8. <mark>1</mark> 69	2022-11-14 14:	22:57	
Source:	10.0.8.169	Timestamp:	1 hour 4 minutes 48 s	seconds	SNMP Version:	1
Enterprise:	icpdas				Community:	public
Specific:	1	Generic:	enterpriseSpecific			
Variable Bindings:						
Name:	trapMessage					
Value:	[OctetString] DO0=1					
Description:						

Item	Description
Source	The IP address of the Trap from the device
Timestamp	How much time has passed after the module starts
SNMP Version	The version of SNMP
Enterprise	The name of the enterprise
Community	SNMP community name according to the Trap Community setting on the ET-2200.
Specific	Specific ID
Generic	Generic ID
Name	The generic name for the Trap
Value	The I/O channel and status value of the module (e.g., 0 = OFF, 1 = ON, or an AO value)

4.17.5 SNMP Problem Solving

Unable to receive the Trap message from the device

- **1.** Check the setting of the Windows firewall or the Anti-virus software. These functions can be disabled during the testing.
- 2. Check the setting of the Trap port. Using iReasoning MIB Browser as an example,

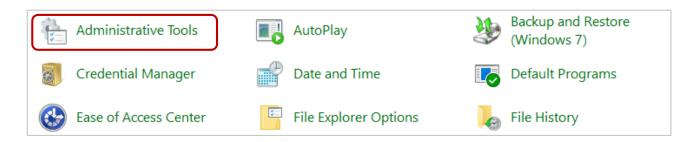
Click the **Trap Receiver Settings** button on the **Trap Receiver** page to open the window. Then, confirm the Trap Port, Bind IP, and Transport settings. The ET-2200 module uses the default Trap Port **162** under SNMP specifications.

SNMP MIBs		Result Table 10.0.8.169 - 0 Operations Tools Image: Comparison of the second s	doTable Trap Receiver ×		
Trap Receiver Settings			he "Trap Receiver Se	ttings" button	×
Trap Port:	162	Bind IP: All	~ Transport:	Both ~	

3. Disable Windows SNMP Trap Service.

Note: Different versions of Windows have different configuration interfaces. The following example is based on Windows 10.

<u>Step1.</u> Open the **Control Panel** window and click **Administrative Tools**.



<u>Step2.</u>	Double-click	the	Services	icon.
---------------	--------------	-----	----------	-------

📸 Registry Editor	2019/12/7下午 05:09	Shortcut	2 KB
🔊 Resource Monitor	2019/12/7下午 05:09	Shortcut	2 KB
Services	2019/12/7下午 05:09	Shortcut	2 KB
😹 System Configuration	2019/12/7 下午 05:09	Shortcut	2 KB
👰 System Information	2019/12/7下午 05:09	Shortcut	2 KB
😥 Task Scheduler	2019/12/7下午 05:09	Shortcut	2 KB
🞓 Windows Defender Firewall with Advanc	2019/12/7 下午 05:08	Shortcut	2 KB
📷 Windows Memory Diagnostic	2019/12/7下午 05:09	Shortcut	2 KB

Step3. Double-click the **SNMP Trap** and confirm the **Startup type** is set to "**Disabled**" and the **Service status** is set to "**Stopped**".

| Start the service Sensor Service A service fo Manual (Trig Local Signation Description: Receives trap messages generated by local or remote Simple Network Shared PC Accourties Summaria Automatic Local Signation Service form the service is stopped, SNMP hased programs on this computer. Shared PC Accourties Signat Card Being Signat Card Being Service name: SIMPTRAP Signation of this computer. Signat Card Being Signat Card Being Signat Card Being Signat Card Being Service name: SIMPTRAP Signation of this computer. Signat Card Being Signation of this computer. Signat Card Being Signat Card Being Signat Card Being Signat Card Being Signation of this computer. Signat Card Being Signat Card Being Signat Card Being Signat Card Being Signation of this computer. Signat Card Being Signat Card Being Signat Card Being Signat Card Being Signation of this computer. Signat Card Being Signat Card Being Signat Card Being Signat Card Being Signation and Signation and Signat Card Being Signat Card Being <th>A service fo Manual (Trig Local Syste
Supports fil Running Automatic (T Local Syste
Running Automatic (T Local Syste
Trap Properties (Local Computer) ×
ral Log On Recovery Dependencies
vice name: SNMPTRAP
viay name: SNMP Trap
cription: Receives trap messages generated by local or
remote Simple Network Management Protocol
(SNMP) agente and forwards the messages to
to executable:
WINDOWS\System32\snmptrap.exe</th> <th>SNMP Trap Name Description Status Startup Type Log On As Start the service Sensor Service A service fo Manual (Trig Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is disabled, any services that explicitly depend on it will fail to statt. Sherver (ICPDA Software Protocol (SNMP) agents and forwards the messages. If this service is disabled, any services that explicitly depend on it will fail to statt. Software Protocol (SNMP) agents and forwards the messages. If this service is disabled, any services that explicitly depend on it will fail to statt. Software Protocol (SNMP) agents and forwards the messages. If this service is disabled, any services that explicitly depend on it will fail to statt. Software Protocol (SNMP) agents and forwards the messages. Sogl. Server (ICPDA Software Protocol (SNMP) trap messages. If this service is disabled. Any services that explicitly depend on it will fail to statt. Software Protocol (SNMP) agents and forwards the messages to SQL Server VSS Wr</th> <th>SNMP Trap Name Description Status Startup Type Log On As Start the service Sensor Service A service fo Manual (Trig Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accourties Shared PC Accourt</th> <th>SNMP Trap Name Description Status Startup Type Log On As Start the service Service A service fo Manual (Trig Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour Shart OP Coperties (Local Computer) General Log On Recovery Dependencies Smart Card Smart Card Device Service name: SNMP Trap Software Protecties is stopped, SNMP-based programs on this computer. if this service is disabled, any services that explicitly depend on it will fail to start. Software Protecties Software Protecties SQL Server (ICPDA Software Protocol SQL Server Rowse Software Protocol Statup Type Local Syste SQL Server VSS Wig SSDP Discovery Description: Receives trap messages to software soft forwards the messages to software protocol Statup Type Statup Type</th> <th>SNMP Trap Start the service Start the service Description: Receives trap messages generated by
local or remote Simple Network Management Protocol (SNMP)
agents and forwards the messages to
SNMP management programs
running on this computer. If this
service is stopped, SNMP-based
programs on this computer will not
receive SIMMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start. Solutions of the executable: Solutions of Subard Subard Start Card Remoters Solutions of Subard Start Subard Start Start</th> <th>SIMP Trap Name Description Status Startup Type Log On As Start the service Service A service fo Manual (Trig Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour Shared PC Accour SNMP Trap Properties (Local Computer) Solution of this computer. If this service is stopped, SIMP based programs on this computer will not receive SIMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to stat. Sime Card Remover Solution: Receives trap messages generated by local or remote Simple Network Management Protocol (SIMP) asperts and forwards the messages to SIMP Trap Solution: Receives trap messages generated by local or remote Simple Network Management Protocol (SIMP) asperts and forwards the messages to SIMP Trap Solution: Receives trap messages generated by local or remote Simple Network Management Protocol (SIMP) asperts and forwards the messages to SIMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SIMP) asperts and forwards the messages to SIMP trap executable: Solution: Solution: Solution: Path to executable: C:WINDOWS\System32\smptrap.exe Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution:</th> <th>SNMP Trap Start the service Start the service Description: Receives trap messages generated by
local or remote Simple Network Management Protocol (SNMP) agement Protocol (CPDA) <</th> <th>SNMP Trap Name Description Status Startup Type Log On As Start the service Sensor Service A service fo Manual (Trig Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP Trap Properties (Local Computer) Shared PC Accourt Shart Card Device Smart Card Device Simple Network Management programs on this computer. If this service is disabled, any services that explicitly depend on it will fail to statu. Shart Card Berrow Source CIPDA Software Protocol (SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP Trap Software Protocol Sof</th> <th>SNMP Trap Name Description Status Startup Type Log On As Start the service Sensor Service A service fo Manual (Trig Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP Trap Properties (Local Computer) Shared PC Accourt Simulation (Crime Construction) Shared PC Accourt Simulation (Crime Construction) Source SNMP management programs running on this computer. If this service is disabled, any services that explicitly depend on it will fail to statu. Shared PC Accourt Simple Network Management Protocol (SNMP) Trap Service name: SNMP Trap Source SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to statu. Source remove Simple Network Management Protocol (SNMP) frap Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) frap Source SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to statu. Source remove Simple Network Management Protocol (SNMP) ansarts and forwards the messages. Path to executable: C:WINDOWS/System32/snmptrap.exe Source SQL Server VSS Wr Source SQL Server VSS Wr Disabled Statup type: Disabled</th> <th>SNMP Trap Name Description Status Startup Type Log On As Start the service Sensor Service A service fo Manual (Trig Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP Trap Properties (Local Computer) Shared PC Accourt Shart Card Device Smart Card Device Simple Network Management programs on this computer. If this service is disabled, any services that explicitly depend on it will fail to statu. Shart Card Device Software Protocol (SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP Trap Description: Service name: SNMP Trap Software Protocol (SNMP)
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Display name: SNMP Trap
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SNMP management programs
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service is disabled, any services that
explicitly depend on it will fail to start.
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Management Protocol (SNMP)
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SNMP management programs
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General Log On Recovery Dependencies
Service name: SNMP Trap
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SNMP Trap Properties (Local Computer)
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Software Protocut
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Support the service is disabled to service is disab | Description: Receives trap messages generated by local or remote Simple Network Shared PC Accourt SNMP Trap Properties (Local Computer) General Log On Recovery Dependencies Smart Card Device Smart Card Device Service name: SNMP Trap Service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Smart Card Being Sinthe Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software Protocol (SNMP) agente and forwarde the messages to Software
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Management Protocol (SNMP)
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service is disabled, any services that
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SQL Server GIPDA
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Soft Service and Explicitly depend on it will fail to start.

 | ral Log On Recovery Dependencies vice name: SNMPTRAP olay name: SNMP Trap cription: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) and forwards the messages to to executable: wINDOWS\System32\snmptrap.exe | Receives trap messages generated by
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Management Protocol (SNMP)
agents and forwards the messages to
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Management Protocol (SNMP)
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 | 🖏 SQL Server VSS Wr | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Server Supports fil Running Automatic Local Syste Solution Shared PC Accourtion Shared PC Accourtion Shared PC Accourtion Solution Solution Solution Solution Card Removies Sonart Card Removies Service name: SNMP Trap Solution Solution Solution Service name: SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agente and forwarde the messages to Solution: Solution: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agente and forwarde the messages to Solution: Solution: Path to executable: C:WINDOWS\System 32\symptrap.exe Startup type: Disabled Startup type: Disabled Startup type: Disabled |
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receive SNMP trap messages. If this
service is disabled, any services that
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| Siver intragement programs Similar Langement Display name: SNMP Trap programs on this computer will not Software Protection Display name: SNMP Trap programs on this computer will not Software Protection Display name: SNMP Trap service is disabled, any services that Software Protection Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) acante and forwarde the massages to SQL Server (ICPDA SQL Server Agent SQL Server Rowse SQL Server CEIP set Startup type: Disabled

 | Alay name: SNMP Trap
cription: Receives trap messages generated by local or
remote Simple Network Management Protocol
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 | Alay name: SNMP Trap
cription: Receives trap messages generated by local or
remote Simple Network Management Protocol
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programs on this computer will not
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SQL Server Browser
Startup type: Disabled
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service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start.
SQL Server (ICPDA
SQL Server Agent | Start the service Server Supports fil Running Automatic (T Local Syste Description: Shared PC Accour SNMP Trap Properties (Local Computer) Receives trap messages generated by local or remote Simple Network Smart Card Smart Card |
| Wahagement Protocol (SIVMP) agents and forwards the messages to SIMP management programs running on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. SQL Server (ICPDA SQL Server Browse SQL Server CEIP se

 | vice name: SNMPTRAP
valay name: SNMP Trap
cription: Receives trap messages generated by local or
remote Simple Network Management Protocol
(SNMP) agente and forwards the messages to
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programs on this computer will not
receive SINMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start. Smart Card Device
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 | Wahagement Protocol (SINMP) agents and forwards the messages to
SINMP management programs
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programs on this computer will not
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service is disabled, any services that
explicitly depend on it will fail to start. Smart Card Device
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SNMP management programs
running on this computer. If this
service is stopped, SNMP-based
programs on this computer will not
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service is disabled, any services that
explicitly depend on it will fail to start. Smart Card Device
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Software Protector
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SINMP management programs
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explicitly depend on it will fail to start. Smart Card Device
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running on this computer. If this
service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start. Smart Card Device
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SIVMP management programs
running on this computer. If this
service is stopped, SIVMP-based
programs on this computer will not
receive SIVMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start. Smart Card Device
Smart Card Remon
Software Protector
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SIVMP management programs
running on this computer. If this
service is stopped, SIVMP-based
programs on this computer will not
receive SIVMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start. Smart Card Device
Smart Card Remon
Software Protector
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SIVMP management programs
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service is stopped, SIVMP-based
programs on this computer will not
receive SIVMP trap messages. If this
service is disabled, any services
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explicitly depend on it will fail to start. Smart Card Device
Smart Card Remon
Software Protector
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SIVIP management programs
running on this computer. If this
service is stopped, SIVIP-based
programs on this computer will not
receive SIVIP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start. Smart Card Device
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Software Protector
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Softw | Sind generative programs
running on this computer. If this
service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start.
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service is stopped, SNMP-based
programs on this computer will not
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service is disabled, any services that
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SQL Server CEIP se | Sind generate programs
running on this computer. If this
service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start.
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SIVIP management programs
running on this computer. If this
service is stopped, SIVIP-based
programs on this computer will not
receive SIVIP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start. Smart Card Device
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SNMP management programs
running on this computer. If this
service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
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service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any
services that
explicitly depend on it will fail to start. SMMP Trap Software Protection Spatial Data Service Software Protection Receives trap messages generated by local or
remote Simple Network Management Protocol
(SNMP) agente and forwards the messages to
SQL Server (ICPDA
SQL Server Agent
SQL Server Browse | Wahagement Protocol (SINMP) Smart Card Device agents and forwards the messages to Smart Card Remove SIMP management programs Smart Card Remove running on this computer. If this Smart Card Remove service is stopped, SNMP-based Software Protocol programs on this computer will not Software Protocol service is disabled, any services that Software Protocol service is disabled, any services that Software Protocol SQL Server (ICPDA SQL Server Agent SQL Server Agent C:\WINDOWS\System32\snmptrap.exe | Start the service Server Supports fil Running Automatic Local Syste Obscription: Shared PC Accour SNMP Trap Properties (Local Computer) Receives trap messages generated by Shell Hardware De |
| Management Protocol (SNMP)
agents and forwards the messages to
SNMP management programs
running on this computer. If this
service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start.
SQL Server (ICPDA
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 | vice name: SNMPTRAP
vialay name: SNMP Trap
cription: Receives trap messages generated by local or
remote Simple Network Management Protocol
(SNMP) agents and forwards the messages to
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SNMP management programs
running on this computer. If this
service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start. Smart Card Device
Smart Card Removes
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service is disabled, any services that
explicitly depend on it will fail to start. Spot Verifier Description: Receives trap messages generated by local or
remote Simple Network Management Protocol
(SNMP) ansarts and forwards the messages to
SQL Server Rowse SQL Server Browse
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agents and forwards the messages to
SNMP management programs
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service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start.
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SSDP Discovery

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agents and forwards the messages to
SNMP management programs
running on this computer. If this
service is stopped, SNMP hased
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start.
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agents and forwards the messages to
SNMP management programs
running on this computer. If this
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programs on this computer will not
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service is disabled, any services that
explicitly depend on it will fail to start.
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SNMP management programs
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receive SNMP trap messages. If this
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explicitly depend on it will fail to start.
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programs on this computer will not
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service is disabled, any services that
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SSDP Discovery | Management Protocol (SNMP)
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service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
service is disabled, any services that
explicitly depend on it will fail to start.
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 | Management Protocol (SNMP)
agents and forwards the messages to
SNMP management programs
running on this computer. If this
service is stopped, SNMP-based
programs on this computer will not
receive SNMP trap messages. If this
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explicitly depend on it will fail to start.
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local or remote Simple Network
Management Protocol (SNMP)
agents and forwards the messages to
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programs on this computer will not
receive SNMP trap messages. If this
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SSDP Discovery
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Management Protocol (SNMP)
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Support Verifier
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SQL Server STAP Broperties (Local Computer)
SIMP Trap Properties (Local Computer)
General Log On Recovery Dependencies
Service name: SNMP Trap
Display name: SNMP Trap
Description: Receives trap messages generated by local or
remote Simple Network Management Protocol
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Receives trap messages generated by
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local or remote Simple Network
Management Protocol (SNMP)
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SNMP management programs
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Software Pro | Description:
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Management Protocol (SNMP)
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| Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs running on this computer. If this service is disabled, any services that explicitly depend on it will fail to start. Shere P C Accourties (Local Computer) Signate Card Benometric Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is disabled, any services that explicitly depend on it will fail to start. Signate Card Benometric SNMP Trap Software Protection Software

 | Running Automatic Local Syste Trap Properties (Local Computer) Image: Computer (Computer) ral Log On Recovery Dependencies vice name: SNMPTRAP play name: SNMP Trap cription: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) soarte and forwarde the messages to the executable: WINDOWS\System32\snmptrap.exe
 | Description: Running Automatic (1 Local Syste Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. SMMP Trap SMMP Trap General Log On Recovery Dependencies Software Protocol (SNMP) Smart Card Berror Smart Card Remover Service name: SNMP Trap Display name: SNMP Trap Software Protocol Spatial Data Service Spot Verifier Spot Verifier Spot Verifier SQL Server (ICPDA SQL Server CEIP se SQL Server VSS Wr Startup type: Disabled V | Description: Running Automatic (1 Local Syste Receives trap messages generated by local or remote Simple Network Shared PC Accourties Shared PC Accourties Shared PC Accourties Automatic trap messages generated by local or remote Simple Network Shared PC Accourties Shared PC Accourties Shared PC Accourties Automatic trap messages to SNMP management programs on this computer, if this service is disabled, any services that explicitly depend on it will fail to start. Shared PC Accourties Shared PC Accourties Software Protocol (SNMP) agents and forwards the messages to SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Shared PC Accourties Shared PC Accourties Software Protocol (SNMP) trap messages. If this service is Glasbled, any services that explicitly depend on it will fail to start. Software Protocol (CPDA SQL Server (ICPDA SQL Server CIP sections) Path to executable: C:WINDOWS \System 32\snmptrap.exe SQL Server VSS Wr SSDP Discovery Satup type: Disabled V

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Receives trap messages generated by
local or remote Simple Network
Management Protocol (SNMP)
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SNMP management programs
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Protocol (CPDA Source Protocol (CPDA Source Protocol (SNMP) agente and forwards the messages to Source receives Startup type: Path to executable: C:WINDOWS\System32\smptrap.exe | Description: Running Automatic (1 Local Syste Receives trap messages generated by local or remote Simple Network Shared PC Accour Shared PC Accour SNMP Trap Properties (Local Computer) agents and forwards the messages to SNMP management programs running on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Spatial Data Service Spatial Data Service SQL Server (ICPDA SQL Server CEIP se SQL Server VSS Wr Path to executable: C:WINDOWS\System32\smmptrap.exe | Description: Running Automatic (1 Local Syste Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. SMMP Trap SMMP Trap General Log On Recovery Dependencies Software Protectic Smart Card Remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP Trap Smart Card Remote Simple Network Management Protocol Service name: SNMP Trap Software Protectic Spatial Data Servic Spot Verifier Spot Verifier Software Protectic Soft Service is disabled, any services that explicitly depend on it will fail to start. Soft Server Rowse Soft Server Rowse Path to executable: C:\WINDOWS\System32\symptrap.exe Soft Server CEIP se Startup type: Disabled V | Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Sherver Supports fill Running Automatic (1 Local Syste Service Supports fill Running Automatic Local Syste Sherver Sherver Supports fill Running Automatic Local Syste Software Sherver Smart Card Service name: SNMPTRAP Display name: SNMP Trap Display name: SNMP Trap Software Spot Verifier Spot Verifier Spot Verifier Sold Server Rrowse SQL Server Rrowse SQL Server Rrowse Startup type: Disabled | Description: Running Automatic (1 Local Syste Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs running on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Shared PC Accourties SNMP Trap Software Protocol Smart Card Smart Card Remover Simple Network Management Protocol Smart
Card Remover Simple Network Management Protocol Service name: SNMP Trap Display name: SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol V Software Protocol Spot Verifier Spot Verifier Spot Verifier SQL Server (ICPDA SQL Server CEIP se Startup type: Disabled V | Description: Running Automatic (1 Local Syste Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs running on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. SNMP Trap Service name: SNMP Trap Description: Receives trap messages generated by local or receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Software Protection Software P | Description: Running Automatic (1 Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour Shared PC Accour SNMP Trap Properties (Local Computer) agents and forwards the messages to SNMP management programs running on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Smart Card Remote Simple Network Management Protocol Software Protocutio Spatial Data Service Spatial Data Service Receives trap messages generated by local or remote Simple Network Management Protocol Software Protocutio Spot Verifier Spot Verifier Software Protocutio Software Protocutio Spot Verifier Software Protocutio Path to executable: C:WINDOWS\System32\system32\system32\system32\system32\system32\system32\system32\system32\system32\symptrap.exe Simple Software Protocution | Sensor Service A service fo Manual (Trig., Local Syste |
| Start the service Server Supports fil Running Automatic (T Local S Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour SNMP Trap Properties (Local Computer) Management Protocol (SNMP) Smart Card Device Smart Card Device Software Protocol (SNMP) Smart Card Device Service name: SNMP Trap Software Protocol (SNMP) Software Protocol Software Protocol Service name: SNMP Trap Software Protocol Software Protocol Software Protocol Service name: SNMP Trap Display name: SNMP Trap Display name: SNMP Trap Display name: SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol Software Protocol SNMP Trap Display name: SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol SQL Server Riote SQL Server Roruse Startup type: Disabled

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vice name: SNMP Trap
cription: Receives trap messages generated by local or
remote Simple Network Management Protocol
(SNMP) anarte and forwards the messages to
to executable:
WINDOWS\System32\snmptrap.exe | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. SMMP Trap Properties (Local Computer) Software Protocol SNMP Trap Properties (Local Computer) General Log On Recovery Dependencies Software Protocol Software Protocol Software Protocol Service name: SNMP Trap Display name: SNMP Trap Display name: SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol V SQL Server (ICPDA SQL Server Rowse SQL Server CEIP se Satup type: Disabled V | Start the service Server Supports fil Running Automatic Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accourt SMMP Trap Properties (Local Computer) agenets and forwards the messages to SNMP management programs running on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Spatial Data Service Spatial Data Service SQL Server (ICPDA SQL Server Rrowse SQL Server Rrowse Startup type: Disabled SQL Server VSS Wr SQL Server VSS Wr Startup type: Disabled V

 | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agement Protocol (SNMP) agement programs running on this computer. If this service is stopped, SNMP Trap SMMP Trap Properties (Local Computer) General Log On Recovery Dependencies Service name: SNMP Trap Software Protocol (SNMP) agement programs running on this computer. If this service is stopped, SNMP based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Software Protocol (SPAP) Software Protocol (SNMP) Software Protocol receives SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Software Protocol (SPAP) Software Protocol (SNMP) Software Protocol receives SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Software Protocol (SPAP) Software Protocol (SNMP) software Protocol receives Browset SQL Server VSS Wr Software Protocol (SNMP) software Protocol (S
 | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Shard PC Accour SNMP Trap Properties (Local Computer) Oscillation of the service is stopped, SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Simple Network (ICDPA System) Service Additional account of the securate and forwards the messages to software Protocol SQL Server (ICPDA System) SQL Server CEIP se SQL Server CEIP se SQL Server CEIP se SQL Server VSS Wr Subports fil Running Automatic (T Local Syste Start the service is stopped, SIMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Software Protocol (SIMP) Software Protocol (SIMP) Software Protocol (SIMP) Software Protocol (SIMP) SQL Server (ICPDA System) Software Protocol (SIMP) Software Protocol (SIMP) Path to executable: C.WINDOWS/System32/smptrap.exe SQL Server VSS Wr SQL Server VSS Wr SSDP Discovery Disabled V | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs running on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Simple Network Management Protocol (SNMP) Software Protocite SQL Server (ICPDA SQL Server (ICPDA SQL Server CEIP se SQL Server VSS Wr Sold Server SQL Server VSS Wr | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour SNMP Trap Properties (Local Computer) Ocal or remote Simple Network Management Protocol (SNMP) Smart Card Smart Card Operation on this computer. If this service is stopped, SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Spatial Data Servic Spatial Data Servic Operation on the score of the service is SQL Server CICPDA Software Protocol Spatial Data Servic Operation on the score of the service of SQL Server VSS Wr Software Protocol Spatial Data Servic Operation on the score of the service of SQL Server VSS Wr Software Protocol Spatial Data Servic Operation on the service of the service of SQL Server VSS Wr Software Protocol Startup type: Disabled Spatial Data Servic Startup type: Disabled | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accourties Management Protocol (SNMP) Smart Card Smart Card Service is stopped, SNMP-based programs running on this computer. If this service is stopped, SNMP rap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Smart Card Remote Simple Network Management Protocol (SNMP) Software Protocties Spatial Data Service Service (ICPDA Software Protocol (SUMP) anome and forwards the messages to SQL Server (ICPDA Software Protocol NMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol Path to executable: C:WINDOWS/System32/smmptrap.exe SQL Server VSS Wr Software Protoc VS Wr Startup type: Disabled Visabled | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accourties Management Protocol (SNMP) Smart Card
 Smart Card Service is stopped, SNMP-based programs running on this computer. If this service is stopped, SNMP rap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Smart Card Remote Simple Network Management Protocol SQL Server (ICPDA SQL Server CEIP seigned SQL Server VSS Wr SqL Server CEIP seigned SQL Server VSS Wr Startup type: | Start the service Server Supports fil Running Automatic Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour SMMP Trap Properties (Local Computer) agents and forwards the messages to SIMP management programs running on this computer. If this service is stopped, SIMP-based programs on this computer will not receive SIMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Simil Data Service Service (ICPDA SQL Server CEIP se SQL Server VSS Wr Sature type: Disabled | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs running on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Server Supports fil Running Automatic (T Local Syste Software Protocol (SNMP) Shared PC Accour SNMP Trap Properties (Local Computer) General Log On Recovery Dependencies Software Protocol (SNMP) Smart Card Berror Smart Card Device Service name: SNMP Trap Display name: SNMP Trap Display name: SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol V SQL Server (ICPDA Software Protocol V SQL Server CEIP se Startup type: Disabled | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour SIMP Trap Properties (Local Computer) Anagement Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is disabled, any services that explicitly depend on it will fail to start. Simp Trap Service name: SIMP Trap Software Protocol Simp Card Remote Simple Network (Management Protocol (SNMP) agents and forwards the messages. If this service is disabled, any services that explicitly depend on it will fail to start. Software Protocol Service name: SIMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol Software Protocol Path to executable: Path to executable: C:\WINDOWS\System32\snmptrap.exe Startup type: Disabled Startup type: Disabled | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is disabled, any services that explicitly depend on it will fail to start. Shared PC Accourt SNMP Trap SNMP Trap Properties (Local Computer) General Log On Recovery Dependencies Shump Trap Service name: SNMP Trap Software Protocol Smart Card Device Service name: SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol Software Protocol Software Protocol Spatial Data Servic Spot Verifier Sold Server (ICPDA Sold Server GICPDA Sold Server Agent Startup type: Disabled Sold Server CEIP se Startup type: Disabled Startup type:

 | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour SNMP Trap Properties (Local Computer) General Log On Recovery Dependencies SNMP management Protocol (SNMP) agents and forwards the messages to SNMP management programs running on this computer. If this service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Spatial Data Service Signer Card Remotion: SQL Server (ICPDA SQL Server Riows Startup type: Disabled Path to executable: C:WINDOWS\System32\signed system32\signed system32\sigmed system32\sigmed system32\sigmed | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is disabled, any services that explicitly depend on it will fail to start. Smart Card Remote Simple Network Management Protocol (SNMP) Trap Service RMSELDI Service Card Remote Simple Network Management Protocol (SNMP) Trap Software Protoce Smart Card Remote Simple Network Will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Software Protoce (CPDA Service Romete Simple Network Management Protocol (CSNMP) agente and forwards the messages to SQL Server (ICPDA Software Protoce SQL Server Romete Simple Network Management Protocol (CSNMP) agente and forwards the messages to SQL Server CEIP se Startup type: Disabled | Start the service Server Supports fil Running Automatic Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs running on this computer. If this service is disabled, any services that explicitly depend on it will fail to start. Simple Network Management Protocol Simple Network Management Protocol SNMP Trap Software Protocol Simple Network Management programs Simple Network Management Protocol Simple Network Management Protocol Software Protocol Software Protocol Software Protocol Service name: SNMP Trap Display name: SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol Image: Software Protocol Software Protocol Software Protocol Software Protocol Image: Software P | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour SMMP Trap Properties (Local Computer) General Log On Recovery Dependencies SMMP Trap Smart Card Beneral Smart Card Beneral Service name: SNMP Trap Software Protection: Spatial Data Service Spatial Data Service Spatial Data Service Spatial Data Service Spot Verifier Spot Verifier Spot Verifier Spot Verifier Spot Verifier SQL Server Rowse SQL Server Rowse Startup type: Disabled Verifier SQL Server CEIP se Startup type: Disabled Verifier Startup type: Disabled
 | Start the service Server Supports fil Running Automatic Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour SNMP Trap Properties (Local Computer) General Log On Recovery Dependencies Shuft table Simart Card Device Smart Card Remotive Service name: SNMP Trap Software Protectific Spatial Data Service Spatial Data Service Spatial Data Service Spatial Data Service Software Protectific Spot Verifier Spot Verifier Spot Verifier Spot Verifier Software Protectific Spot Verifier Spot Verifier Spot Verifier Spot Verifier Software Protectific Spot Verifier Spot Verifier Spot Verifier Spot Verifier Soft Server Browse Spot Server Browse Spot Server Browse Startup type: Disabled | Start the service Server Supports fil Running Automatic Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour SNMP Trap Properties (Local Computer) General Log On Recovery Dependencies SNMP management programs Smart Card Service rame: SNMP Trap Software Protection: Service is disabled, any services that explicitly depend on it will fail to start. Spatial Data Service Supports fil Running Automatic Local Syste Display name: SNMP Trap Service is disabled, any services that explicitly depend on it will fail to start. Spatial Data Service Site Protection: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) aparte and forwarde the messages to SQL Server (ICPDA SQL Server Romse Startup type: Disabled V | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management programs on this computer. If this service is disabled, any services that explicitly depend on it will fail to start. Shared PC Accourt SNMP Trap Properties (Local Computer) General Log On Recovery Dependencies Shared PC Accourt SNMP management programs Smart Card Device Service name: SNMPTRAP Display name: SNMP Trap Display name: SNMP Trap Description: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agente and forwards the messages to software Protocol Software Protocol Software Protocol Spatial Data Service Spatial Data Service Software Protocol Software Protocol Software Protocol Path to executable: C:WINDOWS\System32\symptrap.exe Software Protocol Startup type: Disabled Visitable Visitable
 | Start the service Server Supports fil Running Automatic (T Local Syste Description: Receives trap messages generated by local or remote Simple Network Shared PC Accour SNMP Trap Properties (Local Computer) General Log On Recovery Dependencies Shuff Trap Smart Card Service is stopped, SNMP-based programs on this computer will not receive SNMP trap messages. If this service is disabled, any services that explicitly depend on it will fail to start. Smart Card Service Software Protection: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages. If this service is disabled, any services that explicitly depend on it will fail to start. Software Protection: Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to Software Protocol (SNMP) agents and forwards the messages to Software Protection: Path to executable: C:WINDOWS/System32/snmptrap.exe | |

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5. I/O Pair Connection Applications

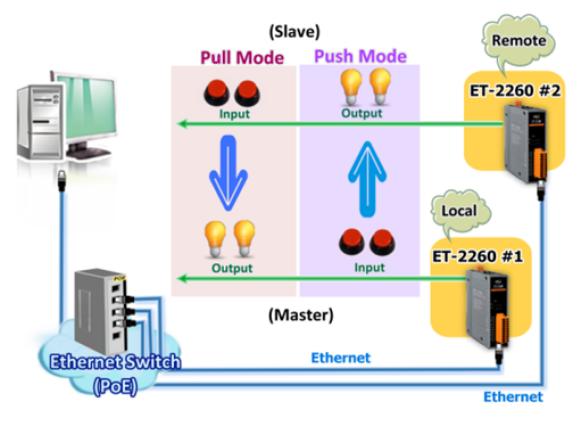
The ET-2200 series modules can establish remote logical I/O connections via Ethernet. After configuring the settings, it becomes possible to continuously read the DI status of the local (or remote) module and then write it to the DO of the remote (or local) module. This function is useful when connecting DI/DO modules that have no Ethernet functionality.

To configure the Pair-Connection function, please consult the following chapters.

5.1 Set a Single Module to Pull/Push Mode (DI/DO)

Step 1: Connect the Module to the Network, PC, and Power Supply

Confirm that the ET-2200 series modules are functioning correctly. Refer to Chapter 3. "Getting Started" for more details. Here is the schematic diagram for this example, utilizing the ET-2260 module.



Step 2: Configure the Ethernet Settings

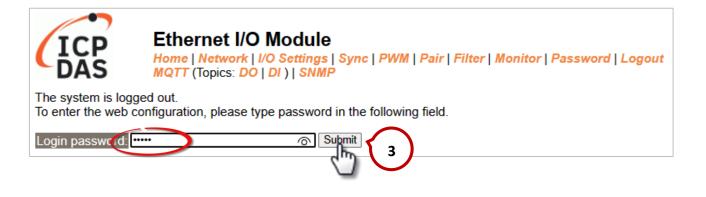
Contact your network administrator to get the correct network configuration information (e.g., IP/Mask/Gateway) needed to set up I/O modules. For more instructions, refer to Section 3.3 "Configuring the Network Settings".

🥩 eSearch Uti	lity [v1.2.6, D)ec.09, 2020]			>	<
File Server T	lools					
Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Address	^
ET-2260	#1	192.168.79.10	255.255.0.0	192.168.1.1	00:0d:e0:65:e9:85	
ET-2260	#2	192.168.79.100	255.255.0.0	192.168.1.1	00:0d:e0:65:cf:d3	
DL-302	EtherIO	192.168.84.62	255.255.0.0	192.168.0.1	00:0d:e0:92:06:69	
DL-302	EtherIO	192.168.101.15	255.255.0.0	192.168.1.1	00:0D:E0:92:00:A1	×
<					>	
Search	Server	Configuration (UDP	1 w	eb	Exit	
Status						

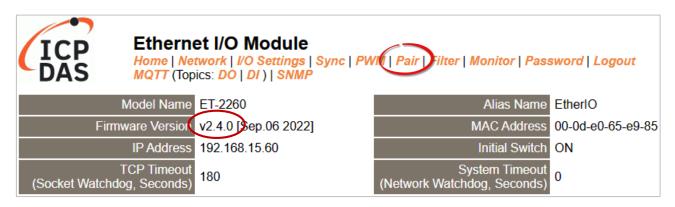
Step 3: Log into the ET-2200 Web Server

- 1. Choose the **ET-2200** module within the eSearch Utility and then click the "**Web**" button to open the login webpage.
- Enter the password in the Login password field (Defaults: "Admin") and click the "Submit" button to log into the Web Server.

	🥩 eSearch Util	ity [v1.2.6, Dec	.09, 2020]			-		<
\frown	File Server T	ools						
1	Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Add	ress	^
	ET-2260	#1	192.168.79.10	255.255.0.0	192.168.1.1	00:0d:e0	:65:e9:85	
	ET-2260 d	#2	192.168.79.100	255.255.0.0	192.168.1.1	00:0d:e0	:65:cf:d3	
	DL-302 🔪	EtherIO	192.168.84.62	255.255.0.0	192.168.0.1	00:0d:e0	:92:06:69	
	DL-302	EtherIO	192.168.101.15	255 255.0.0	192.168.1.1	00:0D:E0):92:00:A1	¥
	<						>	
	Search	Server	Configuration (UDP		وه راس	E×	cit	
	Status							11.



3. Click the "Pair" tab to display the I/O Pair-connection Settings page.



5.1.1 Pull Mode

- 1. In the **Pair-Connection Setting** section, choose **PULL** and check the box in the **Enable Mode** field to enable this mode.
- 2. In the **Remote IP...** : **Port** fields, enter the IP address and TCP Port of the remote **ET-2260#2** module.
- 3. In the **IO Count** field, enter the mapped quantity for DI and DO.

For example, the **PULL Mode** (Remote DI to Local DO) configuration:

Enter "2" in the "IO Count" field and "0" in both the Local/Remote IO Address fields. This means DIO and DI1 of ET-2260#2 module correspond to DOO and DO1 of ET-2260#1 module.

- In the Local IO Address field, select "0x: Coil Output..." and enter the starting DO address.
 In the Remote IO Address field, select "1x: Discrete Input.." and enter the starting DI address.
- 5. Choose the Modbus protocol (e.g., **TCPv4**) from the **Network Protocol** drop-down menu.
- 6. Click the "**Submit...**" button to complete the configuration.

Pair-Connection Settings: Submit 1-8 9-16						
# Enable Remote IPv4 / IPv6 / Host Name (Max. 127 chars) : Port	Net ID	Scan Time (ms)	IO Count	Local IO Address		Network Protocol
01 UIL V 192.168.79.100 502	1	1000	2	0x:Coil ΟιΥ 0	1x:Discret∨ 0	TCPv4 🗸
02 PULL V	1	1000	1	0x:Coil Οι∨ 0	0x:Coil Οι 🗸 0	TCPv4 🗸
03 PULL V	1	1000	1	0x:Coil Oι∨ 0	0x:Coil Oι∨ 0	TCPv4 🗸
04 PULL V	1	1000	1	0x:Coil Oι∨ 0	0x:Coil Oι∨ 0	TCPv4 🗸
05 PULL V	1	1000	1	0x:Coil Oι∨ 0	0x:Coil Οι 🗸 0	TCPv4 🗸

5.1.2 Push Mode

- 1. In the **Pair-Connection Setting** section, choose **PUSH** and check the box in the **Enable Mode** field to enable this mode.
- In the Remote IP... : Port fields, enter the IP address and the TCP Port of the remote ET-2260#2 module
- 3. In the **IO Count** field, enter the mapped quantity for DI and DO.

For example, the **PUSH Mode** (Local DI to Remote DO) configuration: Enter "2" in the IO Count field and "0" in both the Local/Remote IO Address fields. This

means DIO and DI1 of ET-2260#1 module correspond to DOO and DO1 of ET-2260#2 module.

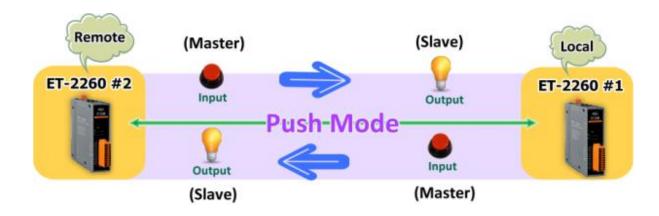
- In the Local IO Address field, select "1x: Discrete Input.." and enter the starting DI address.
 In the Remote IO Address field, select "0x: Coil Output..." and enter the starting DO address.
- 5. Choose the Modbus protocol (e.g., TCPv4) from the Network Protocol drop-down menu.
- 6. Click the **"Submit...**" button to complete the configuration.

	Model Name ET-2260			Alias Nar	me #1				
	Firmware Version v2.4.0 [Sep.06 2022]	MAC Address 00-0d-e0-65-cf-d3							
	IP Address 192.168.79.10	Initial Switch OFF							
(!	TCP Timeout (Socket Watchdog, Seconds) 180 (Network Watchdog, Seconds) 0								
Pair-Conne	air-Connection Settings: Submit 1-8 9-16								
# Enable Mode	Remote IPv4 / IPv6 / Host Name (Max. 127 chars) : Port		Net ID	Scan Time (ms)	IO Count	Local IO Address	Remote IO Address	Network Protocol	
01 PULL V	192.168.79.100	502	1	1000	2	0x:Coil ✓ 0	1x:Dis(❤ 0	TCPv4 🗸	
02	192.168.79.100	: 502	1	1000	2	1x:Dis(❤ 0	0x:Coil ❤ 0	TCPv4 🗸	
03 PULL V		502	1	1000	1	0	0x:Coll •	TCPv4 🗸	
04 PULL V		502	1	1000	1	0x:Coil ✓ 0	0x:Coil∨ 0	TCPv4 🗸	
05 PULL V		: 502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
06 PULL V		: 502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
07 PULL V		: 502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
08 PULL V		: 502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
	= Remote to Local								
	e = Local to Remote tion is disabled if the IO Count is 0 (no data)								
IO Address	(base 0): 0 - 65535. no leading 0x/1x/3x/4x.								

5.2 Set Two Modules to Push Mode (Local DI to Remote DO)

Step 1: Connect the Module to the Network, PC, and Power Supply

Confirm that the ET-2200 series modules are functioning correctly. Refer to Chapter 3 "Getting Started" for more details. Here is the schematic diagram for this example, utilizing the **ET-2260** module.



Step 2: Configure the Ethernet Settings

Contact your network administrator to get the correct network configuration information (e.g., IP/Mask/Gateway) needed to set up I/O modules. For more instructions, refer to Section 3.3 "Configuring the Network Settings".

	🥩 eSearch l	Utility [v1.2.6, De	ec.09, 2020]			- 0	×
\bigcap	File Server	Tools					
2	Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Address	^
	ET-2260	#1	192.168.79.10	255.255.0.0	192.168.1.1	00:0d:e0:65:e9:8	35
	ET-2260	#2	192.168.79.100	255.255.0.0	192.168.1.1	00:0d:e0:65:cf:d	3
_	DL-302	EtherIO	192.168.84.62	255.255.0.0	192.168.0.1	00:0d:e0:92:06:6	
\frown	DL-302	EtherIO	192.168.101.15	255.255 0.0	192.168.1.1	00:0D:E0:92:00:/	A1 🗸
(1	<			(3)			>
4	Status	ch Server	Configuration (UDF		'eb	Exit	

Step 3: Log into the ET-2200 Web Server

- Choose the ET-2260#1 or ET-2260#2 module within the eSearch Utility and then click the "Web" button to open the login webpage.
- Enter the password in the Login password field (Defaults: "Admin") and click the "Submit" button to log into the Web Server. (See Section 5.1 – Step3)

Step 4-1: Configure the Pair-Connection for the ET-2260#1 (Push Mode)

- 1. Click the **Pair** tab to display the configuration page.
- 2. In the **Pair-Connection Setting** section, choose **PUSH** and check the box in the **Enable Mode** field to enable this mode.
- In the Remote IP...: Port fields, enter the IP address and the TCP Port of the remote ET-2260#2 module
- 4. In the **IO Count** field, enter the mapped quantity for DI and DO.

For example, the <u>PUSH Mode (Local DI to Remote DO)</u> configuration: Enter "1" in the IO Count field and "0" in both the Local/Remote IO Address fields. This means DIO of ET-2260#1 module correspond to DOO of ET-2260#2 module.

- In the Local IO Address field, select "1x: Discrete Input.." and enter the starting DI address.
 In the Remote IO Address field, select "0x: Coil Output..." and enter the starting DO address.
- 6. Choose the Modbus protocol (e.g., TCPv4) from the Network Protocol drop-down menu.
- 7. Click the "**Submit...**" button to complete the configuration.

Model Name ET-2260			Alias Na	me #1				
Firmware Version v2.4.0 [Sep.06 2022]	MAC Address 00-0d-e0-65-cf-d3							
IP Address 192.168.79.10	Initial Switch OFF							
TCP Timeout (Socket Watchdog, Seconds) 180	(Netwo	Sy rk Watch	/stem Time dog, Secon	out ds)				
Pair-Connection Settings: Submit 1-8 9-16								
# Remote IPv4 / IPv6 / Host Name (Max. 127 chars) : Port		Net ID	Scan Time (ms)	IO Count	Local IO Address	Remote IO Address	Network Protocol	
0' PUSH V 192.168.79.100	502	1	1000	1	1x:Dis(▼ 0	0x:Coil ✓ 0	TCPv4 🗸	
02 PULL V	502	1	1000	1	0 x:00il •	0 0	TCPv4 🗸	
03 PULL V	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
04 PULL V	502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
05 PULL V	502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
06 PULL V	502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
07 PULL V	502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
08 PULL -	: 502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
Note: PULL Mode = Remote to Local PUSH Mode = Local to Remote Pair-connection is disabled if the IO Count is 0 (no data) IO Address (base 0): 0 - 65535, no leading 0x/1x/3x/4x.								

Step 4-2: Configure the Pair-Connection for the ET-2260#2 (Push Mode)

- 1. Click the **Pair** tab to display the configuration page.
- 2. In the **Pair-Connection Setting** section, choose **PUSH** and check the box in the **Enable Mode** field to enable this mode.
- In the Remote IP...: Port fields, enter the IP address and the TCP Port of the remote ET-2260#1 module
- 4. In the **IO Count** field, enter the mapped quantity for DI and DO.

For example, the <u>PUSH Mode (Local DI to Remote DO)</u> configuration: Enter "1" in the IO Count field and "0" in both the Local/Remote IO Address fields. This means DIO of ET-2260#2 module correspond to DOO of ET-2260#1 module.

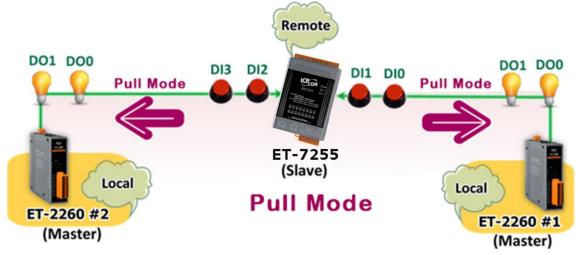
- In the Local IO Address field, select "1x: Discrete Input.." and enter the starting DI address.
 In the Remote IO Address field, select "0x: Coil Output..." and enter the starting DO address.
- 6. Choose the Modbus protocol (e.g., **TCPv4**) from the **Network Protocol** drop-down menu.
- 7. Click the "**Submit...**" button to complete the configuration.

				110				
Model Name ET-2260			Alias Nar					
Firmware Version v2.4.0 [Sep.06 2022]	MAC Address 00-0d-e0-65-e9-85							
IP Address 192.168.79.100	Initial Switch OFF							
TCP Timeout 180		S	stem Time	out				
(Socket Watchdog, Seconds)	(Networ	k Watch	dog, Secono	ds) ⁰				
Pair-Connection Settings: Submit 1-8 9-16								
# Enable Remote IPv4 / IPv6 / Host Name (Max. 127 chars) : Port		Net ID	Scan Time (ms)	IO Count	Local IO Address	Remote	Network Protocol	
01 USH V 192.168.79.10	: 502	1	1000	1	1x:Dis(❤ 0	0x:Coil ✓ 0	TCPv4 🗸	
02 PULL V	502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
03 PULL V	502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
04 PULL V	502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
05 PULL V	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
06 PULL V	: 502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
07 PULL V	502	1	1000	1	0x:Coil∨ 0	0x:Coil ✓ 0	TCPv4 🗸	
08 PULL V	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
Note: PULL Mode = Remote to Local PUSH Mode = Local to Remote Pair-connection is disabled if the IO Count is 0 (no data)								
IO Address (base 0): 0 - 65535, no leading 0x/1x/3x/4x.								

5.3 Set Two Modules to Pull Mode (Remote DI to 2-Local DO)

Step 1: Connect the Module to the Network, PC, and Power Supply

Confirm that the ET-2200 series modules are functioning correctly. Refer to Chapter 3 "Getting Started" for more details. Here is the schematic diagram for this example, utilizing the ET-2260 and ET-7255 modules.



Step 2: Configure the Ethernet Settings

Contact your network administrator to get the correct network configuration information (e.g., IP/Mask/Gateway) needed to set up I/O modules. For more instructions, refer to Section 3.3 "Configuring the Network Settings".

		🥩 eSearch Utility [v1.2.	6, Dec.09, 2020]				- 0	×
		File Server Tools						
	2	Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Address	^
	-	ET-2260	#1	192.168.79.10	255.255.0.0	192.168.1.1	00:0d:e0:65:e9:8	5
		ET-2260	#2	192.168.79.100	255.255.0.0	192.168.1.1	00:0d:e0:65:cf:d3	
		DL-302	EtherIO	192.168.84.62	255.255.0.0	192.168.0.1	00:0d:e0:92:06:6	-
		DI -302	EtherlO	192 168 101 15	255 255 0 0	192 168 1 1	00.0D.E0.05.00.9	1
1		ET-7255/PET-7255	Slave	192.168.79.55	255.0.0	192.168.1.1	00:0d:e0:65:ed:d	I 🗸
	1	< l			3		:	>
	1	Search Serve	r Confi	guration (UDP)	Web		Exit	
		Status						11.

Step 3: Log into the Module's Web Server

- Choose the ET-2260#1/#2 or ET-7255 module within the eSearch Utility and then click the "Web" button to open the login webpage.
- Enter the password in the Login password field (Defaults: "Admin") and click the "Submit" button to log into the Web Server. (See Section 5.1 – Step3)

Step 4-1: Configure the Pair-Connection for the ET-2260#1 (Pull Mode)

- 1. Click the **Pair** tab to display the configuration page.
- 2. In the **Pair-Connection Setting** section, choose **PULL** and check the box in the **Enable Mode** field to enable this mode.
- 3. In the **Remote IP...** : **Port** fields, enter the IP address and TCP Port of the remote **ET-7255** module.
- 4. In the **IO Count** field, enter the mapped quantity for DI and DO.

For example, the **<u>PULL Mode</u>** (**Remote** DI to **Local** DO) configuration:

Enter "2" in the "IO Count" field and "0" in both the Local/Remote IO Address fields. This means DIO and DI1 of ET-7255 module correspond to DOO and DO1 of ET-2260#1 module.

- In the Local IO Address field, select "0x: Coil Output..." and enter the starting DO address.
 In the Remote IO Address field, select "1x: Discrete Input.." and enter the starting DI address.
- 6. Choose the Modbus protocol (e.g., TCPv4) from the Network Protocol drop-down menu.
- 7. Click the **"Submit...**" button to complete the configuration.

	Model Name ET-2260			Ali	as Name	#1		
	Firmware Version v2.4.0 [Sep.06 2022]			MAC	Address	00-0d-e0-6	5-cf-d3	
	IP Address 192.168.79.10	Initial Switch OFF						
(Socket Wa	TCP Timeout tchdog, Seconds)	1)	Network \	System Natchdog, S	i Timeout Seconds)	0		
Pair-Connection Sett	tings: Submit 1-8 9-16							
# Enable Remote II	Pv4 / IPv6 / Host Name (Max. 127 chars) : Port	t	Net ID	Scan Time (ms)	IO Count	Local IO Address	Remote IO Address	Network Protocol
0 PULL • 192.168.79	9.55	: 502	1	1000	2	0x:Coil ✓ 0	1x:Dis(❤ 0	TCPv4 🗸
02 PULL V		: 502	1	1000	1	0x:Coil ✓ 0	0x:Coil∨ 0	TCPv4 🗸
03 PULL 🗸		502	1	1000	1	0x:Coil ✓ 0	0x:Coil∨ 0	TCPv4 🗸
04 PULL 🗸		502	1	1000	1	0x:Coil ✓ 0	0x:Coil∨ 0	TCPv4 🗸
05 PULL 🗸		502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸
06 PULL 🗸		502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸
07 PULL 🗸		502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸
08 PULL V		502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸
Note: PULL Mode = Remote PUSH Mode = Local to Pair-connection is disa								
) - 65535, no leading 0x/1x/3x/4x.							
no nuuless (base 0). U	7 - 03333, 110 IEdulity 0X/1X/3X/4X.							

Step 4-2: Configure the Pair-Connection for the ET-2260#2 (Pull Mode)

- 1. Click the **Pair** tab to display the configuration page.
- 2. In the **Pair-Connection Setting** section, choose **PULL** and check the box in the **Enable Mode** field to enable this mode.
- 3. In the **Remote IP...** : **Port** fields, enter the IP address and TCP Port of the remote **ET-7255** module.
- 4. In the **IO Count** field, enter the mapped quantity for DI and DO.

For example, the **<u>PULL Mode</u>** (**Remote** DI to **Local** DO) configuration:

Enter "2" in the "IO Count" field and "0/ 2" in both the Local/Remote IO Address fields. This means DI2 and DI3 of ET-7255 module correspond to DO0 and DO1 of ET-2260#2 module.

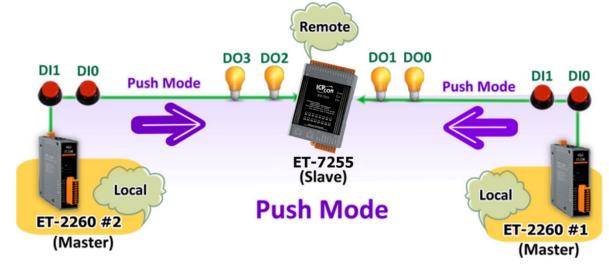
- In the Local IO Address field, select "0x: Coil Output..." and enter the starting DO address.
 In the Remote IO Address field, select "1x: Discrete Input.." and enter the starting DI address.
- 6. Choose the Modbus protocol (e.g., TCPv4) from the Network Protocol drop-down menu.
- 7. Click the **"Submit...**" button to complete the configuration.

Model Name ET-2260			Ali	as Name	#2		
Firmware Version v2.4.0 [Sep.06 2022]			MAC	Address	00-0d-e0-6	5-e9-85	
IP Address 192.168.79.100				al Switch			
TCP Timeout (Socket Watchdog, Seconds)	1)	Network \	System Natchdog, S	Timeout Seconds)	0		
Pair-Connection Settings: Submit 1-8 9-16							
Enable Remote IPv4 / IPv6 / Host Name (Max. 127 chars) : Port		Net ID	Scan Time (ms)	IO Count	Local IO Address	Remote IO Address	Network Protocol
01 PULL V 192.168.79.55	502	1	1000	2	0x:Coil V 0	1x:Dis(♥ 2	TCPv4 🗸
02 PULL V	502	1	1000	1	0x:Coll 🗸	0x.coll ✓	TCPv4 ✓
03 PULL V	502	1	1000	1	0x:Coil ✔ 0	0x:Coil ✔ 0	TCPv4 ✓
04 PULL V	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸
05 PULL V	: 502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 ✓
06 PULL V	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 ✓
07 PULL V	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 ✓
08 PULL V	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 ✓
Note: PULL Mode = Remote to Local PUSH Mode = Local to Remote Pair-connection is disabled if the IO Count is 0 (no data) IO Address (base 0): 0 - 65535, no leading 0x/1x/3x/4x.							

5.4 Set Two Modules to Push Mode (2-Local DI to Remote DO)

Step 1: Connect the Module to the Network, PC, and Power Supply

Confirm that the ET-2200 series modules are functioning correctly. Refer to Chapter 3 "Getting Started" for more details. Here is the schematic diagram for this example, utilizing the ET-2260 and ET-7255 modules.



Step 2: Configure the Ethernet Settings

Contact your network administrator to get the correct network configuration information (e.g., IP/Mask/Gateway) needed to set up I/O modules. For more instructions, refer to Section 3.3 "Configuring the Network Settings".

	🥩 eSearch Utility [v1.2.	6, Dec.09, 2020]				– 🗆 🗙
	File Server Tools					
2	Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Address
	ET-2260	#1	192.168.79.10	255.255.0.0	192.168.1.1	00:0d:e0:65:e9:85
	ET-2260	#2	192.168.79.100	255.255.0.0	192.168.1.1	00:0d:e0:65:cf:d3
	DL-302	EtherIO	192.168.84.62	255.255.0.0	192.168.0.1	00:0d:e0:92:06:69
	DL-302	EtherlO	192 168 101 15	255 255 በ በ	192 168 1 1	00·0D·E0·92·00·41
	ET-7255/PET-7255	Slave	192.168.79.55	5 255.0.0	192.168.1.1	00:0d:e0:65:ed:d1 🗸
	K			3		>
7	Search Serve	r Confi	guration (UDP)	Web		Exit
	Status					1

Step 3: Log into the Module's Web Server

- 3. Choose the **ET-2260#1/#2 or ET-7255** module within the eSearch Utility and then click the "**Web**" button to open the login webpage.
- Enter the password in the Login password field (Defaults: "Admin") and click the "Submit" button to log into the Web Server. (See Section 5.1 – Step3)

Step 4-1: Configure the Pair-Connection for the ET-2260#1 (Push Mode)

- 1. Click the **Pair** tab to display the configuration page.
- 2. In the **Pair-Connection Setting** section, choose **PUSH** and check the box in the **Enable Mode** field to enable this mode.
- 3. In the **Remote IP...** : **Port** fields, enter the IP address and the TCP Port of the remote **ET-7255** module
- 4. In the **IO Count** field, enter the mapped quantity for DI and DO.

For example, the <u>PUSH Mode (Local DI to Remote DO)</u> configuration: Enter "2" in the IO Count field and "0" in both the Local/Remote IO Address fields. This means DIO, DI1 of ET-2260#1 module correspond to DOO, DO1 of ET-7255 module.

- In the Local IO Address field, select "1x: Discrete Input.." and enter the starting DI address.
 In the Remote IO Address field, select "0x: Coil Output..." and enter the starting DO address.
- 6. Choose the Modbus protocol (e.g., **TCPv4**) from the **Network Protocol** drop-down menu.
- 7. Click the "**Submit...**" button to complete the configuration.

	Model Name	ET-2260			Al	ias Name	#1		
Firmware Version v2.4.0 [Sep.06 2022]			MAC Address 00-0d-e0-65-cf-d3						
		192.168.79.10				ial Switch			
TCP Timeout (Socket Watchdog, Seconds) 180 System Timeout (Network Watchdog, Seconds) 0									
air-Conne	ection Settings: Submit 1-8	9-16							
Enable Mode	Remote IPv4 / IPv6 / Host N	lame (Max. 127 chars) : Port		Net ID	Scan Time (ms)	IO Count	Local IO Address	Remote IO Address	Network Protoco
	92.168.79.55		502	1	1000	2	1x:Dis(❤ 0	0x:Coil ✓ 0	TCPv4
2 PULL V			502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4
)3 <mark>□</mark> PULL ▼			502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4
04 <mark>■</mark> PULL ▼			502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4
05 <mark>■</mark> PULL ▼			502	1	1000	1	0x:Coil ✔ 0	0x:Coil ✓ 0	TCPv4
06 <mark>□</mark> PULL ▼			502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4
07 <mark>■</mark> PULL ▼			502	1	1000	1	0x:Coil ✔ 0	0x:Coil ✓ 0	TCPv4 N
)8 <mark>PULL 🗸</mark>			502	1	1000	1	0x:Coil ✔ 0	0x:Coil ✓ 0	TCPv4 🗸
USH Mode	= Remote to Local e = Local to Remote tion is disabled if the IO Cou	nt is 0 (no data)							
O Address ((base 0): 0 - 65535, no leadir	ng 0x/1x/3x/4x.							

Step 4-2: Configure the Pair-Connection for the ET-2260#2 (Push Mode)

- 1. Click the **Pair** tab to display the configuration page.
- 2. In the **Pair-Connection Setting** section, choose **PUSH** and check the box in the **Enable Mode** field to enable this mode.
- 3. In the **Remote IP...** : **Port** fields, enter the IP address and the TCP Port of the remote **ET-7255** module
- 4. In the **IO Count** field, enter the mapped quantity for DI and DO.

For example, the <u>PUSH Mode (Local DI to Remote DO)</u> configuration: Enter "2" in the IO Count field and "0 / 2" in both the Local/Remote IO Address fields. This means DIO, DI1 of ET-2260#2 module correspond to DO2, DO3 of ET-7255 module.

- In the Local IO Address field, select "1x: Discrete Input.." and enter the starting DI address.
 In the Remote IO Address field, select "0x: Coil Output..." and enter the starting DO address.
- 6. Choose the Modbus protocol (e.g., **TCPv4**) from the **Network Protocol** drop-down menu.
- 7. Click the "**Submit...**" button to complete the configuration.

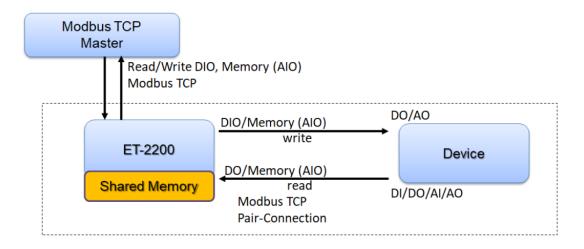
	Model Name ET-2260 Firmware Version v2.4.0 [Sep.06 2022]				as Name Address	#2 00-0d-e0-65	5-e9-85		
	IP Address 192.168.79.100	Initial Switch OFF							
TCP Timeout (Socket Watchdog, Seconds) 180 System Timeout (Network Watchdog, Seconds) 0									
Pair-Con	ection Settings: Submit 1-8 9-16								
# Enable Mode	Remote IPv4 / IPv6 / Host Name (Max. 127 chars) : Port	1	Net ID	Scan Time (ms)	IO Count	Local IO Address	Remote IO Address	Network Protocol	
01	192.168.79.55	502	1	1000	2	1x:Dis(~ 0	0x:Coil 2	TCPv4 🗸	
02 PULL	-	: 502	1	1000	1	0X:COII •		TCPv4 🗸	
03 PULL	×	502	1	1000	1	0x:Coil ✓ 0	0x:Coil∨ 0	TCPv4 🗸	
04 PULL	×	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
05 PULL	×	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ❤ 0	TCPv4 🗸	
06 PULL	·	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
07 PULL	×	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
08 PULL	/	502	1	1000	1	0x:Coil ✓ 0	0x:Coil ✓ 0	TCPv4 🗸	
PUSH Mo Pair-conne	e = Remote to Local de = Local to Remote ection is disabled if the IO Count is 0 (no data) s (base 0): 0 - 65535, no leading 0x/1x/3x/4x.								

5.5 Shared Memory

The ET-2200 DIO series add a 512-byte shared memory which can be used as a tiny data concentrator to store both the AIO and DIO data (256 Registers or 4096-bit shared single memory).

Shared memory used with the Pair-Connection function can effectively lower the host load. It can also perform Bits/Registers data exchange, i.e., read data from the remote device and store them in the memory or output signals from the memory to the remote device.

<u>Note</u>: Shared memory is only available for the firmware v2.4.0 and later. The older version is not supported.



5.5.1 Address Mapping for Shared Memory

Shared Memory Register Name	3x, 4x (AIO) Register Address	Mapping (=)	Shared Memory Bit Name	0x, 1x (DIO) Bit Address
Register 0	3000	€→	Bit 0 Bit 15	3000 3015
Register 1	3001	<>	Bit 16 Bit 31	3016 3031
Register 2	3002	← →	Bit 32 Bit 47	3032 3047
Register 3	3003	←→	Bit 48 Bit 63	3048 3063
Register 4	3004	←→	Bit 64 Bit 79	3064 3079
Register 5	3005	←→	Bit 80 Bit 95	3080 3095
Register 6	3006	←→	Bit 96 Bit 111	3096 3111
Register 7	3007	←→	Bit 112 Bit 127	3112 3127
Register 8	3008	←→	Bit 128 Bit 143	3128 3143
Register 9	3009	←→	Bit 144 Bit 159	3144 3159
Register 10	3010	÷۶	Bit 160 Bit 175	3160 3175

<u>Note</u>: All DI, DO, AI, and AO signals shared a single memory space. The storage address starts at 3000.

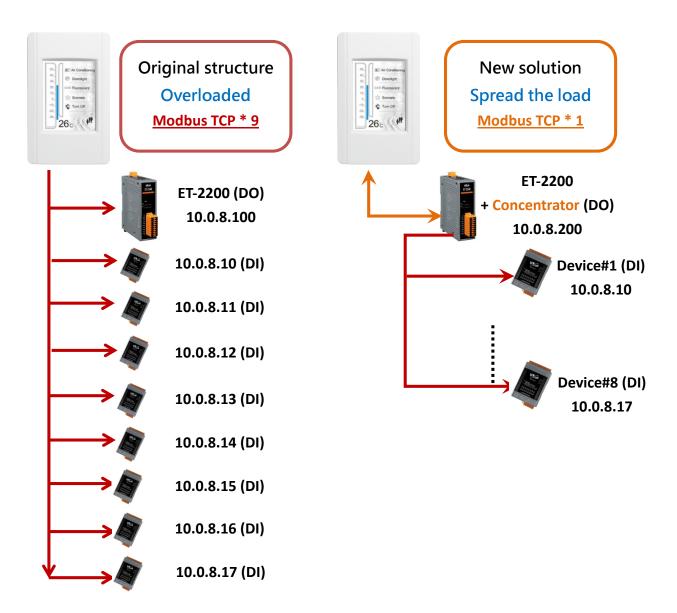
Writing **16** bits of DI/DO data to addresses **3000 – 3015** is equivalent to writing **one** 16-bit AI/AO register to the address **3000**.

Writing **16** bits of DI/DO data to addresses **3016 – 3031** is equivalent to writing **one** 16-bit AI/AO register to the address **3001**.

The correspondence of addresses is as follows, using the division to take the quotient and remove the remainder.

14) AIO_Address = (DIO_Address - 3000) / 16 + 3000

5.5.2 Application of spreading the load (DIO)



The original architecture on the left does not use the data concentrator feature, the host has to connect with all devices to exchange data (9 Modbus TCP connections in this case), and more devices will make the host overloaded.

The new architecture on the right uses the data concentrator feature on the ET-2200 series DIO module. The Pair-connection function supports up to **16** IP connections. The host can obtain the signals written in the data concentrator from Device#1 - #8 by connecting to the ET-2200 series DIO module. The number of Modbus TCP connections to the host is reduced from 9 to 1, which can effectively spread the load.

Host	ET-2200 + Concentrator IP	Remote IP (Slave #1-8)	IO Address (Shared Memory)
		10.0.8.10 30003015 10.0.8.11 30163031 10.0.8.12 3032, 3047	
50. III: Air Conditioning 40. 30. Downlight	10.0.8.200		3032 3047
20. Fuorescent 10. 0. Somato	10.0.8.200		3048 3063
-12. -00. -30.			3064 3079
26°		10.0.8. <mark>15</mark>	3080 3095
		10.0.8. <mark>16</mark>	3096 3111
		10.0.8. 17	3112 3127

Refer to Chapter 5 - I/O Pair Connection Application for detailed configuration

- Click Enable Mode and choose the PULL mode (Remote DI to Local DO) to enable this function (#01 ~ #08).
- In the Remote IP...: Port field, enter the IP address and TCP port (502) of remote modules (Slave #1-8). In the IO Count field, enter the number of mapped DI (e.g., 16). In the Local IO Address field, select "Ox: Coil Output..." and enter the starting address of the shared memory.

In the **Remote IO Address** field, select "**1**x: Discrete Input..." and enter the starting **DI** address.

3. In Shared Memory, the host computer has the option to use either Bit or Register addresses to poll ET-2200, and both approaches can read the same data. Accessing a Register is equivalent to accessing 16 bits.

	Enable Mode	Remote IPv	4 / IPv6 / Host Name (Max. 127 chars) : Port	Net ID	Scan Time (ms)	IO Count	Local IO Address	Remote IO Address	Network Protoco
1	PULL 🗸	10.0.8.10	502	1	1000	16	0x:Coil O 🗸 3000	1x:Discre 0	TCPv4
2	PULL 🗸	10.0.8.11	502	1	1000	16	0x:Coil O ✔ 3016	1x:Discre ❤ 0	TCPv4
3	PULL 🗸	10.0.8.12	502	1	1000	16	0x:Coil 0 ✔ 3032	1x:Discre ❤ 0	TCPv4
4	PULL 🗸	10.0.8.13	502	1	1000	16	0x:Coil O ✔ 3048	1x:Discre ✓ 0	TCPv4
5	PULL 🗸	10.0.8.14	502	1	1000	16	0x:Coil O ✔ 3064	1x:Discre ✓ 0	TCPv4
6	PULL 🗸	10.0.8.15	502	1	1000	16	0x:Coil O ✔ 3080	1x:Discre ✔ 0	TCPv4
7	PULL 🗸	10.0.8.16	502	1	1000	16	0x:Coil O ✔ 3096	1x:Discre ❤ 0	TCPv4
B	PULL V	10.0.8.17	502	1	1000	16	0x:Coil 0 V 3112	1x:Discre ~	TCPv4

Pair-Connection Settings: | Submit 1-8 | 9-16 |

PULL Mode = Remote to Local PUSH Mode = Local to Remote

Pair-connection is disabled if the IO Count is 0 (no data)

IO Address (base 0): 0 - 65535, no leading 0x/1x/3x/4x.

5.5.3 Example of Using Memory AIO

The example will show you how to read data from a remote AI module and then write data to the shared memory (AO) of the DO module.

Remote IP	Local IP	Memory AO	
PET-2217 (AI)	ET-2260 (DO)	Address	
192.68.79.17	192.68.79.60		

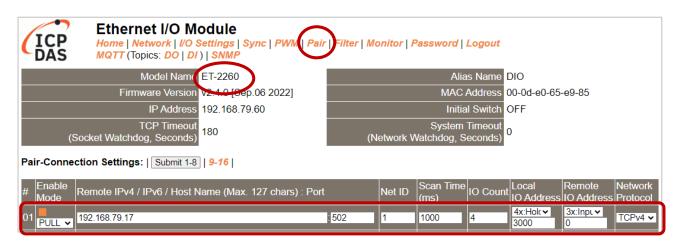


Configure the following setttings on the Pair page of the ET-2260 module.

- 1. Click **Enable Mode** and choose the **PULL** mode (**Remote** AI to **Local** AO) to enable this function.
- In the Remote IP...: Port field, enter the IP address and TCP port (502) of the PET-2217. In the IO Count field, enter the number of mapped AI/AO. (E.g., 4) In the Local IO Address field, select "4x: Holding Register/..." and enter the starting address of the shared memory (AO). (E.g., 3000). In the Remote IO Address field, select "3x: Input Register/..." and enter the starting AI

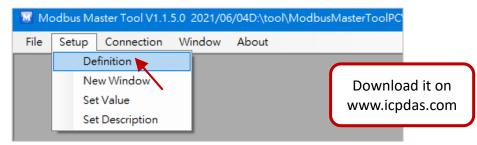
address. (E.g., 0).

3. Click the "**Submit...**" button to complete the configuration.

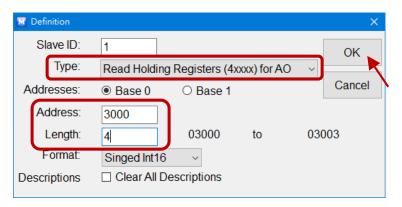


4. To read data in shared memory by using the **Modbus Master Tool.**

https://www.icpdas.com/tw/product/guide+Software+Development_Tools+Modbus_Tool#674



5. Select either AI or AO in the **Type** field; the readings will be the same. Set the starting address to "**3000**" and read **four** values.



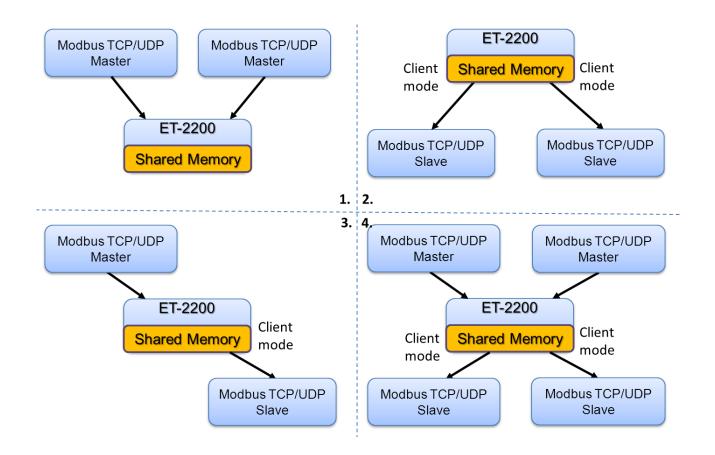
6. Select "Connection > Connect" and enter the ET-2260's IP address, and then click OK.

🔝 Mo	odbus Ma	ster Tool V1.1.	5.0 2021/0	06/04D:\tool\Mo	dbus	sMasterToolPC		
File	Setup	Connection	Window	About				
		Connect						
		Conne	•					×
			Interface:	TCP/IP ~	1	Scan Interv	val(ms):	220
		Remote	e Server IP:	192.168.79.60		Timeo	out(ms):	200
		Modbu	s TCP Port:	502		Delay Between P	oll(ms):	20
						Car	ncel	ОК

 The user can view the values stored in addresses 3000 to 3003 within the Shared Memory of ET-2260. Additionally, you can verify the data by checking the Home page of PET-2117.

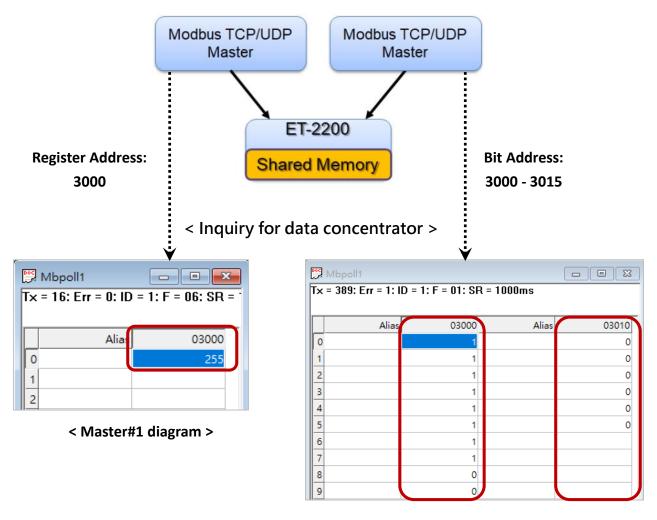
File Setup Connection	Window Abo	out	(ICP DAS	Ethernet I/ Home Network	I/O Settings MQTT S	NMP Pair Filter
Master0				Mod	lel Nalne P/ET-2217	
Slave ID = 1, FC = 3				Firmware	e Version V01.9.0 [202307]	26]
Error = 0				IP	Address 192.168.79.17	
AO (4x) Base 0	Value D	escription	(Socket Wate	chdog, Sec's)TCP	Timeout 180	
3000 (0xBB8)	8493		Modbus Format Engineering			
3001 (0xBB9)	7493			Analog Inp	out Mode Differential	
3002 (0xBBA)	6196			(Modbus Add	ress: Al=30000 ~)	
3003 (0xBBB)	9991		Analog input	(Moubus Add	Tess. Al=30000 ~)	
			Al Channel	Value (30000~)	Туре (40427~)	Channel Enable (00595~)
Connection is established. IP=	192.168.79.60		Al0:	8.494	0x08:-10 ~ +10V	Enabled
			Al1:	7.496	0x08:-10 ~ +10V	Enabled
			AI2:	6.197	0x08:-10 ~ +10V	Enabled
			Al3:	9.993	0x08:-10 ~ +10V	Enabled
			AI4:	0.000	0x08:-10 ~ +10V	Disabled

5.5.4 Master/Slave/MTCP/MUDP Data Exchange



- 1. Two hosts can exchange data via shared memory.
- 2. With the Pair-connection function, two Slave devices can also exchange data via shared memory.
- 3. With the Pair-connection function, the host can indirectly control the Slave device via the shared memory.
- 4. Shared memory can be used as a concentrator for multiple hosts and Slave devices to exchange data.

5.5.5 Bits / Registers Data Exchange



< Master#2 diagram >

Generally, the device cannot exchange the Bit and Register data directly, but this can achieve by using the shared memory of ET-2200 as a concentrator. As the diagram above, the Modbus Master#1 writes data **255 (0X00FF)** to the shared memory with a Register address **3000**. The Modbus Master#2 reads data from the shared memory with Bit addresses 30**15** to 30**00** and gets the result **0000 0000 1111 1111**.

The data stored in shared memory can be read with the Bit or Register address.

6. Modbus Information

The ET-2200 series is a family of IP-based Modbus I/O devices that allow you to remotely control DI/DO terminals via an Ethernet connection and uses a master-slave communication technique in which only one device (the master) can initiate a transaction (called queries), while other devices (slaves) respond by either supplying the requested data to the master or by taking the action requested in the query.

Most SCADA (Supervisory Control and Data Acquisition) and HMI software, such as Citect (Schneider Electric), ICONICS, iFIX, InduSoft, Intouch, Entivity Studio, Entivity Live, Entivity VLC, Trace Mode, Wizcon (ElUTIONS), and Wonderware, etc. can be used to easily integrate serial devices via the Modbus protocol.

6.1 What is Modbus TCP/IP?

Modbus is a communication protocol that was developed by Modicon Inc. in 1979. Detailed information regarding the Modbus protocol can be found at: http://www.modbus.org.

The different versions of the Modbus protocol used today include Modbus RTU, which is based on serial communication interfaces such as RS-485 and RS-232, as well as Modbus ASCII and Modbus TCP, which uses the Modbus RTU protocol embedded into TCP packets.

Modbus TCP is an internet protocol. The protocol embeds a Modbus frame into a TCP frame so that a connection-oriented approach is obtained, thereby making it more reliable. The master queries the slave and the slave responds with a reply. The protocol is open and, hence, highly scalable.

6.2 Modbus Message Structure

Modbus devices communicate using a master-slave (client-server) technique in which only one device (the master/client) can initiate transactions (called queries). The other devices (slaves/servers) respond by either supplying the requested data to the master or by taking the action requested in the query.

A query from a master will consist of a slave, or broadcast, address, a function code defining the requested action, any required data, and an error-checking field. A response from a slave consists of fields confirming the action taken, any data to be returned, and an error-checking field.

The Modbus/TCP Message Structure

Bytes 00 - 05	Bytes 06 - 11
6-byte header	RTU Data

The Leading 6 bytes of a Modbus/TCP Protocol Query

Byte 00	Byte 01	Byte 02	Byte 03	Byte 04	Byte 05
Transaction	dentifier	Protocol Ic	lentifier	Length Field (upper byte)	Length Field (lower byte)

- Transaction identifier = Assigned by the Modbus/TCP master (client)
- Protocol identifier = 0
- ✓ **Length field (upper byte) =** 0 (since all messages are smaller than 256)
- Length field (lower byte) = The number of following RTU data bytes

Modbus RTU Data Structure

Byte 06	Byte 07	Bytes 08 - 09	Bytes 10 - 11
Net ID		Dat	a Field
Net ID (Station Number)	Function Code	Reference Number (Address Mapping)	Number of Points

- ✓ **Net ID:** Specifies the address of the receiver (i.e., the Modbus/TCP slave).
- ✓ **Function Code:** Specifies the message type.
- ✓ **Data Field:** The data block.

Net ID (Station Number)

The first byte in the frame structure of a Modbus RTU query is the address of the receiver. A valid address is in the range of 0 to 247. Address 0 is used for general broadcast purposes, while addresses 1 to 247 are assigned to individual Modbus devices.

Function Code

The second byte in the message structure of a Modbus RTU query is the function code, which describes what the slave device is required to do. Valid function codes range between 1 and 255. To answer the query, the slave device uses the same function code as contained in the request. The highest bit of the function code will only be set to '1' if an error occurs in the system. In this way, the master device will know whether or not the message has been correctly transmitted.

Code	Function	Reference (Address)
01 (0x01)	Read the Status of the Coils (Read DO Readback values)	Oxxxx
02 (0x02)	Read the Status of the Input (Read DI values)	1xxxx
03 (0x03)	Read the Holding Registers (Read AO Readback values)	4xxxx
04 (0x04)	Read the Input Registers (Read AI values)	Зхххх
05 (0x05)	Force a Single Coil (Write DO value)	Oxxxx
06 (0x06)	Set a Single Register (Write AO value)	4xxxx
15 (0x0F)	Force Multiple Coils (Write DO values)	Oxxxx
16 (0x10)	Set Multiple Registers (Write AO values)	4xxxx

Data Field

Data is transmitted in 8-, 16- and 32-bit formats. The data for 16-bit registers is transmitted in highbyte first format. For example, 0x0A0B will be transmitted as 0x0A, 0x0B. The data for 32-bit registers is transmitted as two 16-bit registers and is low-word first. For example: 0x0A0B0C0D will be transmitted as 0x0C, 0x0D, 0x0A, 0x0B.

The data field for messages sent between a master device and a slave device contains additional information about the action to be taken by the master, or any information requested by the slave. If the master does not require this information, the data field can be empty.

Reference (Address)	Description
Охххх	Read/Write Discrete Outputs or Coils. An 0x reference address is used to output device data to a Digital Output channel.
1хххх	Read Discrete Inputs. The ON/OFF status of a 1x reference address is controlled by the corresponding Digital Input channel.
Зхххх	Read Input Registers. A 3x reference register contains a 16-bit value received from an external source, e.g. an analog signal.
4хххх	Read/Write Outputs or Holding Registers. A 4x register is used to store 16 bits of numerical data (binary or decimal), or to send data from the CPU to an output channel.

Note:

For more details regarding the address mapping, refer to Section 6.3 (DIO) or Section 6.4 (AIO) "Modbus Register Table".

6.2.1 01(0x01) Read the Status of the Coils (Read DO Readback values)

This function code is used to read either the current status of the coils or the current Digital Output readback value from the ET-2200 series module.

[Request]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x01
			Refer to Section 6.3 or 6.4 "Modbus Register
02-03	Starting DO Address	2 Bytes	Table" to find the address.
02-05			Byte 02 = high byte
			Byte 03 = low byte
04.05	Number of Deints (Channels)	2 Dutos	Byte 04 = high byte
04-05	Number of Points (Channels)	2 Bytes	Byte 05 = low byte

[Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x01
02	Puto Count	1 Duto	Byte Count of the Response
02	Byte Count	1 Byte	(n = (Points+7)/8)
			n= 1; Byte 03 = data bit 7 to 0
03	Data	n Bytes	n= 2; Byte 04 = data bit 15 to 8
03			
			n= m; Byte m+2 = data bit (8m-1) to 8(m-1)

[Error Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x81
02	Exception Code	1 Byte	Refer to the Modbus Standard Specifications
02			for more details

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Example: Function 01 (0x01), Readback DOs

Reads the Digital Output value

	[Leading 6 bytes]	[Request]
Command:	<u>01 02 00 00 00 06</u>	<u>01 01 00 00 00 02</u>
	[Leading 6 bytes]	[Response]
Response:	<u>01 02 00 00 00 04</u>	<u>01 01 01 03</u>
_	[Leading 6 bytes]	[Response]

> A description of the command and response is as follows:

Command:	[Leading 6 bytes]		
	Bytes 00-03	01 02 00 00	(Message Number)
	Bytes 04-05	00 06	(Number of bytes remaining in this frame)
	[Request]		
	Byte 00	01	(Net ID)
	Byte 01	01	(Function Code)
	Byte 02-03	00 00	(Starting DO Address)
	Byte 04-05	00 02	(Number of Points)

Response:	esponse: [Leading 6 bytes]		
	Bytes 00-03	01 02 00 00	(Message Number)
	Bytes 04-05	00 04	(Number of bytes remaining in this frame)
	[Response]		
	Byte 00	01	(Net ID)
	Byte 01	01	(Function Code)
	Byte 02	01	(Byte Count of the Response)
	Byte 03	03	(Value for DO0 to DO1)

6.2.2 02(0x02) Read the Status of the Input (Read DI values)

This function code is used to read the current Digital Input value from the ET-2200 series module.

[Request]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x02
	Starting DI Address		Refer to Section 6.3 or 6.4 "Modbus Register
02.02		2 Bytes	Table" to find the address.
02-03			Byte 02 = high byte
			Byte 03 = low byte
04-05	Number of Points (Channels)	2 Bytes	Byte 04 = high byte
			Byte 05 = low byte

[Response]

Byte	Description	Size	Value	
00	Net ID (Station Number)	1 Byte	1 to 247	
01	Function Code	1 Byte	0x02	
02	Puto Count	1 Duto	Byte Count of Response	
02	Byte Count	1 Byte	(n =(Points+7)/8)	
			n= 1; Byte 03 = data bit 7 to 0	
03	Data	n Bytes	n= 2; Byte 04 = data bit 15 to 8	
03				
			n= m; Byte m+2 = data bit(8m-1) to 8(m-1)	

[Error Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x82
02	Evention Code	1 Byte	Refer to the Modbus Standard Specifications
02	Exception Code		for more details

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Example: Function 02 (0x02), ReadDIs

Reads the Digital Input value

Command:	[Leading 6 bytes] 01 02 00 00 00 06	[Request] <u>01 02 00 00 00 02</u>
Response:	[Leading 6 bytes] 01 02 00 00 00 04	[Response] <u>01 02 01 03</u>

> A description of the command and response is as follows:

Command:	Command: [Leading 6 bytes]		
	Bytes 00-03	01 02 00 00	(Message Number)
	Bytes 04-05	00 06	(Number of bytes remaining in this frame)
	[Request]		
	Byte 00	01	(Net ID)
	Byte 01	02	(Function Code)
	Byte 02-03	00 00	(Starting DI Address)
	Byte 04-05	00 02	(Number of Points)

Response:	[Leading 6 bytes]		
	Bytes 00-03	01 02 00 00	(Message Number)
	Bytes 04-05	00 04	(Number of bytes remaining in this frame)
	[Response]		
	Byte 00	01	(Net ID)
	Byte 01	02	(Function Code)
	Byte 02	01	(Byte Count of the Response)
	Byte 03	03	(Value for DI0 to DI1)

6.2.3 03(0x03) Read the Holding Registers (Read AO Readback values)

This function code is used to read back either the current values in the holding registers or the Analog Output value from the ET-2200 series module. These registers are also used to store the preset values for the Digital Counter, the host watchdog timer, the module name, the TCP timeout, etc.

[Request]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x03
	Starting AO Address	2 Bytes	Refer to Section 6.3 or 6.4 "Modbus Register
02-03			Table" to find the address
			Byte 02 = high byte ; Byte 03 = low byte
04.05	Number of 16-bit Registers	2 Bytes	Word Count
04-05	(Channels)		Byte 04 = high byte ; Byte 05 = low byte

[Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x03
02	Puto Count	1 Duto	Byte Count of the Response
02	Byte Count	1 Byte	(n=Points x 2 Bytes)
	Register Values	n Bytes	Register Values
			n= 2; Byte 03 = high byte
03~			Byte 04 = low byte
03			
			n= m; Byte m+1 = high byte
			Byte m+2 = low byte

[Error Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x83
02	Evention Code	1 Durto	Refer to the Modbus Standard Specifications
02	Exception Code	1 Byte	for more details

Example: Function 03 (0x03), Read AOs

Reads the name of the module for the ET-2260

Command:	[Leading 6 bytes] 01 02 00 00 00 06	[Request] <u>01 03 01 03 00 01</u>
Response:	[Leading 6 bytes] 01 02 00 00 00 05	[Response] <u>01 03 02 22 60</u>

> A description of the command and response is as follows:

Command:	[Leading 6 bytes]		
	Bytes 00-03	01 02 00 00	(Message Number)
	Bytes 04-05	00 06	(Number of bytes remaining in this frame)
	[Request]		
	Byte 00	01	(Net ID)
	Byte 01	03	(Function Code)
	Byte 02-03	01 03	(Starting AO Address)
	Byte 04-05	00 01	(Number of Points)

Response:	[Leading 6 bytes]]	
	Bytes 00-03	01 02 00 00	(Message Number)
	Bytes 04-05	00 05	(Number of bytes remaining in this frame)
	[Response]		
	Byte 00	01	(Net ID)
	Byte 01	03	(Function Code)
	Byte 02	02	(Byte Count of the Response)
	Byte 03-04	22 60	(Module Name)

6.2.4 04(0x04) Read the Input Registers (Read AI values)

This function code is used to read either the input registers or the current analog input value from the ET-2200 series module. These registers are also used to store the current value for the digital counter, the number of DI channels and the number of DO channels, etc.

[Request]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x04
02-03	Starting AI Address	2 Bytes	Refer to Section 6.3 or 6.4 "Modbus Register Table" to find the address. Byte 02 = high byte Byte 03 = low byte
04-05	Number of 16-bit Registers (Channels)	2 Bytes	Word Count Byte 04 = high byte Byte 05 = low byte

[Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x04
02	Byte Count	1 Byte	Byte Count of the Response (n=Points x 2 Bytes)
03~	Register Values	n Bytes	Register Values n= 2; Byte 03 = high byte Byte 04 = low byte n= m; Byte m+1 = high byte Byte m+2 = low byte

[Error Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x84
02	Evention Code	1 Durto	Refer to the Modbus Standard Specifications
02	Exception Code	1 Byte	for more details.

Example: Function 04 (0x04), Read Als

> Reads the number of the DI channels on the ET-2260

Command:	[Leading 6 bytes] 01 02 00 00 00 06	[Request] <u>01 04 00 64 00 01</u>
Response:	[Leading 6 bytes] 01 02 00 00 00 05	[Response] <u>01 04 02 00 02</u>

> A description of the command and response is as follows:

Command:	[Leading 6 byte	s]	
	Bytes 00-03	01 02 00 00	(Message Number)
	Bytes 04-05	00 06	(Number of bytes remaining in this frame)
	[Request]		
	Byte 00	01	(Net ID)
	Byte 01	04	(Function Code)
	Byte 02-03	0064	(Starting AI Address)
	Byte 04-05	00 01	(Number of 16-bit Registers)

Response:	[Leading 6 bytes]	g 6 bytes]	
	Bytes 00-03	01 02 00 0	0 (Message Number)
	Bytes 04-05	00 05	(Number of bytes remaining in this frame)
	[Response]		
	Byte 00	01	(Net ID)
	Byte 01	04	(Function Code)
	Byte 02	02	(Byte Count of the Response)
	Byte 03-04	00 02	(Number of DI channels on the ET-2260)

6.2.5 05(0x05) Force a Single Coil (Write DO value)

This function code is used to set the status of a single coil or a single Digital Output value for the ET-2200 series module.

[Request]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x05
			Refer to Section 6.3 or 6.4 "Modbus Register
02-03	DO Address	2 Bytes	Table" to find the address.
			Byte 02 = high byte ; Byte 03 = low byte
			0xFF 00 sets the output to ON.
			0x00 00 sets the output to OFF.
04-05	Output Value	2 Bytes	All other values are invalid and will not affect
			the coil.
			Byte 04 = high byte ; Byte 05 = low byte

[Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x05
02-03	DO Address	2 Bytes	The value is the same as Bytes 02-03 of the
02-03	DO Address	2 Dytes	Request
04.05	Output Value	2 Bytes	The value is the same as Bytes 04-05 of the
04-05		2 Dytes	Request

[Error Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x85
02	Evention Code	1 Durto	Refer to the Modbus Standard Specifications
02	Exception Code	1 Byte	for more details.

Example: Function 05 (0x05), Write DO

Sets channel DO1 to ON

Command:	[Leading 6 bytes] 01 02 00 00 00 06	[Request] <u>01 05 00 01 FF 00</u>
Response:	[Leading 6 bytes] 01 02 00 00 00 06	[Response] 01 05 00 01 FF 00

> A description of the command and response is as follows:

Command:	[Leading 6 bytes]]	
	Bytes 00-03	01 02 00 00	D (Message Number)
	Bytes 04-05	00 06	(Number of bytes remaining in this frame)
	[Request]		
	Byte 00	01	(Net ID)
	Byte 01	05	(Function Code)
	Byte 02-03	0001	(DO Address)
	Byte 04-05	FF 00	(Sets the output to ON)
	[Request] Byte 00 Byte 01 Byte 02-03	01 05 0001	(Net ID) (Function Code) (DO Address)

Response:	[Leading 6 bytes]]	
	Bytes 00-03	01 02 00 0	0 (Message Number)
	Bytes 04-05	00 06	(Number of bytes remaining in this frame)
	[Response]		
	Byte 00	01	(Net ID)
	Byte 01	05	(Function Code)
	Byte 02-03	00 01	(DO Address)
	Byte 04-05	FF 00	(Indicates that the DO has been set to ON)

6.2.6 06(0x06) Set a Single Register (Write AO value)

This function code is used to set a specific holding register to store the configuration values for the ET-2200 series module.

[Request]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x06
	AO Address		Refer to Section 6.3 or 6.4 "Modbus Register
02.02		2 Bytes	Table" to find the address.
02-03			Byte 02 = high byte
			Byte 03 = low byte
			Register Value
04-05	04-05 Register Value	2 Bytes	Byte 04 = high byte
			Byte 05 = low byte

[Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x06
02-03	AO Address	2 Bytes	The value is the same as Bytes 02-03 of the
02-05	AU AUUIESS		Request
04.05	Register Value	2 Bytes	The value is the same as Bytes 04-05 of the
04-05	negister value		Request

[Error Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x86
02	Evention Code	1 Durto	Refer to the Modbus Standard Specifications
02	Exception Code	1 Byte	for more details.

Example: Function 06 (0x06), WriteAO

Sets the system timeout to 60 seconds

Command:	[Leading 6 bytes] 01 02 00 00 00 06	[Request] <u>01 06 01 08 00 3C</u>
Response:	[Leading 6 bytes] 01 02 00 00 00 06	[Response] <u>01 06 01 08 00 3C</u>

> A description of the command and response is as follows:

Command:	[Leading 6 bytes]]	
	Bytes 00-03	01 02 00 0	0 (Message Number)
	Bytes 04-05	00 06	(Number of bytes remaining in this frame)
	[Request]		
	Byte 00	01	(Net ID)
	Byte 01	06	(Function Code)
	Byte 02-03	0108	(AO Address)
	Byte 04-05	003C	(Sets the system timeout to 60 seconds)
	Byte 00 Byte 01 Byte 02-03	06 0108	(Function Code) (AO Address)

Response:	[Leading 6 bytes]	
	Bytes 00-03	01 02 00 0	0 (Message Number)
	Bytes 04-05	00 06	(Number of bytes remaining in this frame)
	[Response]		
	Byte 00	01	(Net ID)
	Byte 01	06	(Function Code)
	Byte 02-03	01 08	(AO Address)
	Byte 04-05	003C	(Indicates that the system timeout has
			been set to 60 seconds)

6.2.7 15(0x0F) Force Multiple Coils (Write DO values)

This function code is used to set the status of multiple coils or to write multiple Digital Output values for the ET-2200 series module.

[Request]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x0F
			Refer to Section 6.3 or 6.4 "Modbus Register
02-03	Starting DO Address	2 Bytes	Table" to find the address.
			Byte 02 = high byte ; Byte 03 = low byte
04-05	Number of Output Channels	2 Dutoc	Byte 04 = high byte ; Byte 05 = low byte
04-05	(Points)	2 Bytes	Byte 04 – High byte , Byte 05 – Iow byte
06	Byte count	1 Byte	n = (Points +7)/8
		n Bytes	A bit corresponds to a channel. A value of 1
	07 Output value		for a bit denotes that the channel is ON,
			while a value of denotes that the channel is
07			OFF.
07			n= 1; Byte 07 = data bit 7 to 0
			n= 2; Byte 08 = data bit 15 to 8
			n= m; Byte m+6 = data bit (8m-1) to 8 (m-1)

[Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x0F
02-03	Starting DO Address	2 Bytes	The value is the same as Puter 02 OF of the
04-05	Number of Output Channels (Points)	2 Bytes	The value is the same as Bytes 02-05 of the Request

[Error Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1to 247
01	Function Code	1 Byte	0x8F
02	Exception Code	1 Byte	Refer to the Modbus Standard Specifications for more details.

Example: Function 15 (0x0F), Write DOs

Sets the safe value (DO0 ~ DO1)

Command:	[Leading 6 bytes] 01 02 00 00 00 08	[Request] <u>01 OF 01 OB 00 02 01 03</u>
Response:	[Leading 6 bytes] 01 02 00 00 00 06	[Response] <u>01 OF 01 OB 00 02</u>

A description of the command and response is as follows:

Command: [I	Leading 6 bytes]		
В	ytes 00-03	01 02 00 00	(Message Number)
В	ytes 04-05	00 08	(Number of bytes remaining in this frame)
[F	Request]		
В	yte 00	01	(Net ID)
В	yte 01	OF	(Function Code)
В	yte 02-03	010B	(Starting DO Address)
В	yte 04-05	0002	(Number of Output Channels)
В	yte 06	01	(Byte Count)
В	yte 07	03	(Output Value)

Response:	[Leading 6 bytes]]	
	Bytes 00-03	01 02 00 00 (Message Number)	
	Bytes 04-05	00 06	(Number of bytes remaining in this frame)
	[Response]		
	Byte 00	01	(Net ID)
	Byte 01	OF	(Function Code)
	Byte 02-03	01 OB	(Starting DO Address)
	Byte 04-05	00 02	(Number of Input Channels)

6.2.8 16(0x10) Set Multiple Registers (Write AO values)

This function code is used to set multiple holding registers that are used to store the configuration values for the ET-2200 series module.

[Re	ques	t]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x10
			Refer to Section 6.3 or 6.4 "Modbus Register
02-03	Starting AO Address	2 Bytes	Table" to find the address.
		,	Byte 02 = high byte ; Byte 03 = low byte
04-05	Number of 16-bit Registers	2 Dutor	Word Count.
04-05	(Channels)	2 Bytes	Byte 04 = high byte ; Byte 05 = low byte
06	Byte Count	1 Byte	n =Points x 2 Bytes
			Register Values.
			n= 2; Byte 03 = high byte
07	Register Values	n Bytes	Byte 04 = low byte
07		II Dytes	
			n= m; Byte m+1 = high byte
			Byte m+2 = low byte

[Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x10
02-03	Starting AO Address	2 Bytes	The value is the same as Bytes 02-03 of the Request
04-05	Number of 16-bit Registers (Channels)	2 Bytes	The value is the same as Bytes 04-05 of the Request

[Error Response]

Byte	Description	Size	Value
00	Net ID (Station Number)	1 Byte	1 to 247
01	Function Code	1 Byte	0x90
02	Exception Code	1 Byte	Refer to the Modbus Standard Specifications for more details.

Example: Function 16 (0x10), WriteAOs

Sets the preset value for the digital counter

Command:	[Leading 6 bytes] 01 02 00 00 00 0B	[Request] <u>01 10 00 32 0 001 02 03 E8 00 00</u>
Response:	[Leading 6 bytes] 01 02 00 00 00 06	[Response] <u>01 10 00 32 00 01</u>

A description of the command and response is as follows:

Command:	[Leading 6 bytes]]	
	Bytes 00-03	01 02 00 00	D (Message Number)
	Bytes 04-05	00 OB	(Number of bytes remaining in this frame)
	[Request]		
	Byte 00	01	(Net ID)
	Byte 01	10	(Function Code)
	Byte 02-03	0032	(Starting AO Address)
	Byte 04-05	0001	(Number of 16-bit Registers)
	Byte 06	02	(Byte Count)
	Byte 07-10	03 E8 00 00	O (Preset value for the digital counter)

Response:	[Leading 6 bytes]	is]	
	Bytes 00-03	01 02 00 00 (Message Number)	
	Bytes 04-05	00 06 (Number of bytes remaining in this frame)	
	[Response]		
	Byte 00	01	(Net ID)
	Byte 01	10	(Function Code)
	Byte 02-03	0032	(Starting AO Address)
	Byte 04-05	00 01	(word count)

6.3 Modbus Register Table (For DIO Module)

Data from 16-bit registers is transmitted in high-byte first order. For example: 0x0A0B ==> 0x0A, 0x0B. Data from 32-bit registers is transmitted as two 16-bit registers and is in low-word first order. For example: 0x0A0B0C0D ==> 0x0C, 0x0D, 0x0A, 0x0B.

6.3.1 Common Functions

Starting Address	Points	Description	Bits per Point	Range	Access Type
127 (0x7F)	1	Restores all default web settings	1	1 = Restore	W (Pulse)
128 (0x80)	1	Default ID Settings	1	1 = Restore	W (Pulse)
133 (0x85)	1	Reboots the ET-2200 module	1	1 = Reboot	W (Pulse)
Notes	" W ": Wr	ite			

Oxxxx: DO Address (Base 0)

3xxxx: AI Address (Base 0)

Starting Address	Points	Description	Bits per Point	Range	Access Type
151 (0x97)	1	Firmware Version	16	"123" denotes that the version is 1.2.3	R
158 (0x9E)	1	Modbus Communication Status	16	0 = No Error 1 = Timeout	R
160 (0xA0)	1	Pair-Connection Status	16	0 = Normal 1 = Timeout 2 = Disconnected	R
Notes	" R ": Read	3		-	

4xxxx: AO Address (Base 0)

Starting	Points	Description	Bits per	Range	Access
Address 255 (0xFF)	1	CPU Reset Status	Point 16	 1 = Reset at Power-on 2 = Reset by the WDT 3 = Reset using the reset command 	Type R/W
257 (0x101)	1	Sets the Host Watchdog Timer (WDT)	16	<5: Disabled 5 to 65535: Enabled (units: seconds) 0: Default If the ET-2200 series module loses communication with the host PC for more than the period defined in the WDT settings, the DO channels will revert to their safe values and the Host WDT Events Counter will be increased by one.	R/W/F
258 (0x102)	1	Host WDT Events	16	Denotes how many Host WDT Events have occurred since the last CPU reset	R/W
259 (0x103)	1	Module Name	16	Module Name	R
263 (0x107)	1	Sets the TCP Timeout Value	16	<5: Disabled 5 to 65535: Enabled (units: seconds) 0: Default	R/W/F
264 (0x108)	1	Sets the System Timeout Value	16	<30: Disabled 30~65535: Enabled (unit: second) 0: Default	R/W/F
Notes				it to become corrupt.	

6.3.2 Specific Functions

The nDI and nDO parameters for each ET-2200 series module used in the following Modbus Address Tables are as follows:

Model Name	Universal DIO (UDIO)	Number of DO channels (nDO)	Number of DI channels (nDI)
ET-2242/ET-2242U	-	16	-
ET-2251	-	-	16
ET-2254/ET-2254P	16	Depend on your configuration	Depend on your configuration
ET-2255/ET-2255U	-	8	8
ET-2260	-	6	6
ET-2261	-	10	-
ET-2261-16	-	16	-
ET-2268	-	8	-

> 0xxxx: DO Address (Base 0)

Starting Address	Points	Description	Bits per Point	Range	Access Type
0 (0x00)	1 to nDO	Digital Output Channels	1	0 = Off 1 = On	R/W
32 (0x20)	1	Clears the status of all high- latched DI Channels	1	1 = Clear	W
33 (0x21)	1	Clears the status of all low- latched DI Channels	1	1 = Clear	W
34 (0x22)	1 to nDI	Clears the high-speed digital counter for all DI Channels	1	1 = Clear	W
60 (0x3C)	1	Saves specific data to Flash (The access type for some registers labeled with an " E")	1	0: cannot write 1: can be write	W
100 (0x64)	1 to nDO	Enables the PWM for all DO Channels	1	0 = Off 1 = On (Default= 0)	R/W
150 (0x96)	1	Enables the high and low latches for all DI Channels	1	0 = Disable 1 = Enable (Default= 0)	R/W/F

Starting Address	Points	Description	Bits per Point	Range	Access Type
151 (0x97)	1 to nDI	Enables the high-speed digital counter for all DI Channels	1	0 = Disable 1 = Enable (Default= 0)	R/W/F
190 (0xBE)	1 to nDI	Enables frequency measurement for all DI Channels	1	0 = Disable 1 = Enable (Default= 0)	R/W/F
235 (0xEB)	1 to nDO	Sets the Power-on value for all DO Channels	1	0 = Off 1 = On (Default= 0)	R/W/F
267 (0x10B)	1 to nDO	Sets the Safe value for all DO Channels	1	0 = Off 1 = On (Default= 0)	R/W/F
299 (0x12B)	1	Force the DI/DO Mode. (for the ET-2254 only) 0 = Dynamic I/O type based on DO requests. 1 = Static I/O type by configuration (web or Modbus).	1	0 = Dynamic 1= Static	R/W
300 ~ 315 (0x12C ~ 0x13B)	1 to UDIO	Sets the Universal DIO channels to DI or DO Port. (for the ET-2254 only) 300 is the CHO address, 301 is the CH1 address, and so on.	1	0 = DO type 1= DI type	R/W
 "R": Read "W": Write Notes "F": Settings are recorded in flash by default "E": After writing DO[60] register, the data will be stored in flash. Warning: Frequency writing to the Flash can cause it to become corrupt. 					

<u>Note:</u>

Because of the characteristics of the relay functions, it is recommended that the PWM on ET-2260/2261/2268 series (i.e., modules with relay functions) is not used for extended periods.

1xxxx: DI Address (Base 0)

Starting Address	Points	Description	Bits per Point	Range	Access Type
0 0x00)	1 to nDI	The status of all Digital Input Channels	1	0 = Off 1 = On	R
32 (0x20)	1 to nDI	The status of all high-latched DI Channels	1	0 = None 1 = Latched	R
64 (0x40)	1 to nDI	The status of all low-latched DI Channels	1	0 = None 1 = Latched	R
Notes	" R ": Read			•	<u>.</u>

3xxxx: AI Address (Base 0)

Starting Address	Points	Description	Bits per Point	Value	Access Type
16 (0x10)	1 to nDI	The Digital Counter Value	32	0 to 4294967296	R
64 (0x40)	1 to nDI	The frequency Value is * 1,000. (Note: The Client must first divide the value by 1,000.)	32	0 to 4294967296	R

Note:

The "DI Counter (0x10)" and "DI Frequency (0x40)" record data as a 32-bit value and are transmitted as two 16-bit registers. Consequently, the register's address has an offset of 2, i.e., the address of the second channel will be at the starting address +2, and so on. You can refer to "FAQ_How do I read DI Counter for the PETL/t(P)ET/ET-2200 Series Modules correctly" for more detailed information.

Example: Reads the 6 DI Counter on the ET-2260.

	[Lead	ling 6 bytes]	[Request]			
Command: 01 02 00 00 00 06		01 04 00 <u>10</u> 00 <u>0C</u> —		nels * 2 registe gisters	ers	
			Starting Address			
100 (0x64)	1	Number of DI Channels		16	nDI	R
110 (0x6E)	1	Number of DO Channels	5	16	nDO	R
121 (0x79)	1	Number of high-speed of	counters	16	nDl	R
Notes	" R ": Read					

4xxxx: AO Address (Base 0)

Starting Address	Points	Description	Bits per Point	Range	Access Type	
50 (0x32)	1 to nDI	The preset value for the high-speed digital counter	32	0 to 4294967296	R/W/E	
Note: "Preset DI Counter Value (0x32)" that the records data as a 32-bit value and is transmitted as two 16-bit registers. Consequently, the register's address has an offset of 2, i.e., the address of the second channel will be at the starting address +2, and so on. You can refer to "FAQ_How do I read						
		he t(P)ET/ET-2200 Series Modules cor	·	r more detailed inform	ation.	
	[The preset value of 6DI Counter on the E Leading 6 bytes] [Requestion 000000000000000000000000000000000000	t] D <u>oc</u> →	6 channels * 2 regist = 12 registers	ers	
100 (0x64)	1 to nDO	The duty cycle for the DO PWM The first word (16-bit register) is the higl pulse width, while the second word i the low pulse width. The units rein m and the resolution is about 10 ms.	s 32	0 to 65535; 0 to 65535;	R/W/E	
150 (0x64)	1 to nDO	The Scan mode for the DI frequency measurement. Refer to Section 4.4.2 "DI/DO Configuration" for more details.	16	1000= 1000ms 100= 100ms 2000=Single pulse	R/W/F	
200 (0x64)	1 to nDI	The moving average of the DI frequence measurement.	y 16	1= No average 2=Average 2 values 4=Average 4 values 8=Average 8 values	R/W/F	
268 (0x10C)	1 to nDO	The Min-Switching Time for all DO Channels	16	1 to 65535 second	R/W/F	
284 (0x11C)	1 to nDO	The Auto-off Time for all DO Channels	16	1 to 65535 second	R/W/F	
 "R": Read "W": Write "F": Settings are recorded in flash by default "E": After writing the DO[60] register, the data will be stored in flash. Warning: Frequent writing to the Flash can cause it to become corrupt. 						

6.4 Modbus Register Table (For AIO Module)

6.4.1 Modbus Register Table for (P)ET-2215H, (P)ET-2215H-16

Address 3xxxx / 4xxxx (Base 0)

Address	Description	Attribute
30000 ~ 30015 40000 ~ 40015	Temperature of channel 0 to 15	R
30100 40100	Number of the digital input channels	R
30110 40110	Number of the digital output channels	R
30120 40120	Number of the analog input channels	R
30130 40130	Number of the analog output channels	R
30151 40151	Firmware version	R
30180 ~ 30194 40180 ~ 40194	Alias name	R
40212 - 40227	Type code of channel 0 to 15	R/W
40257	Ethernet host watchdog timeout value, 5 to 65535, in second, 0 to disable.	R/W
30258 40258	Ethernet host watchdog timeout count.	R
30259 ~ 30260 40259 ~ 40260	Module name, e.g., (P)ET-2215H displays 0x2215, 0x4800; (P)ET-2215H-16 displays 0x2215, 0x4810	R
40263	TCP disconnection timeout value, 5 to 65535, in second, 0 to disable.	R/W
40264	Module reset timeout value, 30 to 65535, in second, 0 to disable.	R/W
40288 ~ 40303	Channel temperature offset of channel 0 to 15 in 0.01°C	R/W
30320 ~ 30351 40320 ~ 40351	Temperature of channel 0 to 15 in floating point format, two registers for each channel	R

Address	Description	Attribute
40384 ~ 40399	Channel resistance offset of channel 0 to 15 in 0.01 Ω	R/W
30416 ~ 30431 40416 ~ 40431	Resistance of channel 0 to 15 in 0.01 Ω	R
40489	Disable/enable channels. 0: Disable, 1: Enable Bit 0 for channel 0, bit 1 for channel 1, etc.	R/W
40497	Number of moving averaging, 1 to 128, default 1	R/W
40500	Number of moving averaging without written to EEPROM, 1 to 128, default 1	R/W
30512 ~ 30527 40512 ~ 40527	High latched analog input value of channel 0 to 15	R
30544 ~ 30559 40544 ~ 40559	Low latched analog input value of channel 0 to 15	R
00096 ~ 00111	Open wire status of channel 0 to 15, 1 for open wire	R
00127	Write 1 to reload default settings	W
00128	Write 1 to set Modbus TCP ID to 1	W
00133	Write 1 to reboot module	W
00141	Sampling rates, 0: 1.5 Hz, 1: 90 Hz	R/W
00142	Write 1 to reload factory calibration parameters	W
00279	Write 1 to clear all high latched analog input values	W
00280	Write 1 to clear all low latched analog input values	W
00384 ~ 00399	Write 1 to clear high latched analog input value of channel 0 to 15	W
00416 ~ 00431	Write 1 to clear low latched analog input value of channel 0 to 15	W

6.4.2 Modbus Register Table for (P)ET-2217

Coils (0xxxx)

Register		Delate	Description	Data Farmat	A +++: ++++=	Factory	
DEC	HEX	Points	Description	Data Format	Attribute	Value	
00162:	00A2:	8	Clear 1-ch historical Al max. value	I max. value 1: Clear			
00169	00A9	0			W	-	
00194:	00C2:	8	Clear 1-ch historical AI min. value	1: Clear	w	-	
00201	00C9	Ŭ					
00226	00E2	1	Reset the I/O settings to the factory default state	1: Reset	w	-	
00233	00E9	1	Reboot the module	1: Reboot	W	-	
00595:	0253:	0	Frankla /Disable the Alfunction	0: Disable		1	
00602	025A	8	Enable/Disable the AI function	1: Enable	R/W/E		
00628	0274	1	Set the AI sampling rate	0: Normal mode (20 Hz)	R/W/E	0	
00028	0274			1: Fast mode (200 Hz)			
00631	0277	7 1	Set the AI data format	0: Hexadecimal format	R/W/E	0	
00031	0277			1: Engineering unit			
00632	0278	1	Reset the AI calibration to the factory settings	1: Reset	w	-	
00634	027A	1	Clear all historical AI max. values	1: Clear	W	-	
00635	027B	1	Clear all historical Al min. values	1: Clear	w	-	
00636:	027C:	0	Enable/Disable the AI high alarm	0: Disable		0	
00643	0283	8	function	1: Enable	R/W/E		
00668:	029C:	8	Enable/Disable the AI low alarm	0: Disable	R/W/E	0	
00675	02A3	ð	function	1: Enable	K/VV/E	U	
00700:	02BC:	0	0	8 Set the AI high alarm mode	0: Momentary mode	R/W/E	0
00707	02C3	0	Set the Armign alarm mode	1: Latching mode		U	
00732:	02DC:	Q	8 Set the AI low alarm mode	0: Momentary mode	R/W/E	0	
00739	02E3	0		1: Latching mode			
00764:	02FC:	8	Clear the AI high alarm status	1: Clear	W	-	
00771	0303	5			vv		

Register		Dointo	Description	Data Format	Attribute	Factory
DEC	HEX	Points	Description		Allinbule	Value
00796:	031C:	0	Clear the AI low alarm status	1: Clear	W	-
00803	0323	8	Clear the Arlow alarm status	1. Clear		
00020	033E	1	Enable/Disable the AI calibration	0: Disable	R/W	-
00830				1: Enable		
00831	033F	1	Zero calibration for channel 0	1: Set	W	-
00832	0340)340 1	Span/Gain calibration for the channel	1. Cot	W	-
00832			0~7	1: Set	vv	
00833	0341	1 1	Al Input Mode	0: Differential	R/W/E	-
00833			(Differential or Single-ended)	1: Single-ended		

Discrete Inputs (1xxxx)

Register		Dointo	Description	Data Format	Attribute
DEC	HEX	Points	Description		Attribute
10224: 10231	00E0: 00E7	8	Read AI high alarm status. When the AI value is higher than the high alarm value, the status becomes 1.	0: Normal 1: Alarmed	R
10256: 10263	0100: 0107	8	Read AI low alarm status. When the AI value is lower than the low alarm value, the status becomes 1.	0: Normal 1: Alarmed	R

Input Register (3xxxx)

Register		Dointo	No. Per	Description	Data Format	Attailanta
DEC	HEX	Points	Point	Description	Data Format	Attribute
30000:	0000:	8	1	Al value	-32768 to 32767	R
30007	0007	0	Ţ		(0x0000 to 0xFFFF)	ĸ
30236:	00EC:	8	1	Al historical max, value	-32768 to 32767	R
30243	00F3			(0x0000 to 0xFFFF)		
30268:	010C:	8	1	Al historical min. value	-32768 to 32767	R
30275	0113			Al historical min. Value	(0x0000 to 0xFFFF)	
30320	0140	1	1	Number of the AI channel	8	R
30351	015F	1	1	Firmware version	0x123 means version	R
30351 015F		1	T		1.2.3	ň
30360	0168	1	1	Communication state of the	0: Normal	R
50300	0108	L	L	pair-connection	< 0: Failed	ĸ

Regi	ster	Points	No. Per	Description	Data Format	Attribute	Factory																		
DEC	HEX	Points	Point	Description	Data Format	Attribute	Value																		
40271	010F	1	1	Set the module identification (Modbus NetID)	0 to 255	R/W/E	1																		
40296:	0128:	8	1	Set the AI high alarm value	-32768 to 32767	R/W/E	32767																		
40303	012F	0	-	(0x0000 to	(0x0000 to 0xFFFF)		(0x7FFF)																		
40328:	0148:	8	1	Set the AI low alarm value	-32768 to 32767	R/W/E	-32768																		
40335	014F	0	1		(0x0000 to 0xFFFF)		(0x8000)																		
					0x07: 4 ~ 20 mA																				
					0x08: +/-10 V																				
					0x09: +/-5 V																				
40427:	01AB:	8	1	Set the AI range	0x0A: +/-1 V	D/\//E	0x08																		
40434	01B2	0	1 I	Set the Alfange	0x0B: +/-500 mV	R/W/E	0x08																		
																							0x0C: +/-150 mV		
					0x0D: +/-20 mA																				
					0x1A: 0 ~ 20 mA																				
					1: Power-on																				
					2:																				
40555	022B	1	1	Read the module reset status	Module Watchdog	R	-																		
					3: Software																				
					Reset Command																				
				Read the boot count of the																					
				module.																					
40556	022C	1	1	The factory default value is 0	1 to 32767	R	-																		
				when the settings are set to																					
				the factory default values.																					
40559	022F	1	1	Read the module name	0x2217	R	-																		

6.4.3 Modbus Register Table for ET-2217CI

Address 3xxxx / 4xxxx (Base 0)

Address	Description	Attribute		
30000 ~ 30007	Analog input values of channels 0 to 7	R		
40000 ~ 40007				
30100	Number of the digital input channels	R		
40100				
30110	Number of the digital output channels	R		
40110				
30120	Number of the analog input channels	R		
40120				
30130	Number of the analog output channels	R		
40130				
30151	The firmware version			
40151		R		
30180 ~ 30194	The alias name	R		
40180 ~ 40194		IN IN		
40212 ~ 40219	The type codes of analog input channels 0 to 7	R/W		
40257	Ethernet host watchdog timeout value, 5 to 65535, in seconds,			
40237	0 to disable.			
30258	Ethorpot host watchdog timoout count	R		
40258	Ethernet host watchdog timeout count.			
30259 ~ 30260	The module name.	R		
40259 ~ 40260	The module name.	ĸ		
40263	TCP disconnection timeout value, 5 to 65535, in second,			
40203	0 to disable.	R/W		
40264	Module reset timeout value, 30 to 65535, in second,			
40264	0 to disable. Only for Modbus TCP protocol	R/W		
30512 ~ 30519	The high latched value of apples input channel 0 to 7	R		
40512 ~ 40519	The high latched value of analog input channel 0 to 7			
30544 ~ 30551	The low latched value of analog input channel 0 to 7	R		
40544 ~ 40551	The low latched value of analog input channel 0 to 7			

Address	Description	Attribute
40864	RTC year (2000 ~ 2159)	R/W
40865	RTC month (1 to 12)	R/W
40866	RTC date (1 to 31)	R/W
40867	RTC hour (0 to 23)	R/W
40868	RTC minute (0 to 59)	R/W
40869	RTC second (0 to 59)	R/W
40870 ~ 40871	The index of the last log record	R
40872 ~ 40873	The index of the log record to be read	R/W
40874	The status of the data logging, 0: stopped, 1: running	R
40875	The data logger command, 0: stop, 1: run in continuous mode, 2: run in a period mode	R/W
40876	If the data logger is full, will it continue to write data? 0: no, 1: yes	R/W
40878	The sampling period of the data logger (units: seconds)	R/W
40879	The sampling period of the data logger (units: milliseconds) (0 to 1000, the value should be a multiple of 5.)	R/W
40880	The starting year of recording in period mode (2000 to 2159)	R/W
40881	The starting month of recording in period mode (1 to 12)	R/W
40882	The starting day of recording in period mode (1 to 31)	R/W
40883	The starting hour of recording in period mode (0 to 23)	R/W
40884	The starting minute of recording in period mode (0 to 59)	R/W
40885	The starting second of recording in period mode (0 to 59)	R/W
40886	The ending year of recording in period mode (2000 to 2159)	R/W
40887	The ending month of recording in period mode (1 to 12)	R/W
40888	The ending date of recording in period mode (1 to 31)	R/W
40889	The ending hour of recording in period mode (0 to 23)	R/W
40890	The ending minute of recording in period mode (0 to 59)	R/W
40891	The ending second of recording in period mode (0 to 59)	R/W
40898 ~ 40899	The index of the first log record	R

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Address	Description	Attribute
34097 ~ 34206 44097 ~ 44206	Read log data and it should be multiple of 11 registers. For every 11 registers, they are a value of channel 0,, the value of channel 7, time stamp low word, time stamp high word, and millisecond time stamp. The timestamp is in Epoch time format.	R
00096 ~ 00103	Under range status of channel 0 to 7 for 0mA to 20mA and	R
10096 ~ 10103	4mA to 20mA ranges	
00127	Write 1 to reload the default settings	W
00128	Write 1 to set Modbus TCP ID to 1	W
00133	Write 1 to reboot the module	W
00140	Data format, 0: hex, 1: engineering	R/W
00141	Sampling rates, 0: 10Hz, 1: 200Hz	R/W
00142	Write 1 to reload factory calibration parameters	W

6.4.4 Modbus Register Table for (P)ET-2218H/S1, (P)ET-2218H-16/S1

Address 3xxxx / 4xxxx (Base 0)

Address	Description	Attribute
30001 ~ 30015 40001 ~ 40015	Temperature of channel 0 to 15	R
30100 40100	Number of the digital input channels	R
30110 40110	Number of the digital output channels	R
30120 40120	Number of the analog input channels	R
30128 40128	CJC temperature in 0.1°C	
30130 40130	Number of the analog output channels	R
30151 40151	Firmware version	R
30180 ~ 30194 40180 ~ 40194	Alias name	R
40212 - 40227	Type code of channel 0 to 15	R/W
40257	Ethernet host watchdog timeout value, 5 to 65535, in second, 0 to disable.	R/W
30258 40258	Ethernet host watchdog timeout count.	R
30259 ~ 30260 40259 ~ 40260	Module name, e.g., (P)ET- 2218H /S1 displays 0x2218, 0x4800; (P)ET- 2218H-16 /S1 displays 0x2218, 0x4810	R
40263	TCP disconnection timeout value, 5 to 65535, in second, 0 to disable.	R/W
40264	Module reset timeout value, 30 to 65535, in second, 0 to disable.	R/W
40288 ~ 40303	Channel temperature offset of channel 0 to 15 in 0.01°C for type M and 0.1°C for other types	R/W
30320 ~ 30351 40320 ~ 40351	Temperature of channel 0 to 15 in floating point format, two registers for each channel	R

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Address	Description	Attribute
40384 ~ 40399	Channel CJC offset of channel 0 to 15 in 0.1°C, -128 to 128.	R/W
40489	Disable/enable channels, bit 0 for channel 0, bit 1 for channel 1, etc. 0 to disable and 1 to enable	R/W
40490	Module CJC offset in 0.1°C, -128 to 128	R/W
40497	Number of moving averaging, 1 to 128, default 1	R/W
40500	Number of moving averaging without written to EEPROM, 1 to 128, default 1	R/W
30512 ~ 30527 40512 ~ 40527	High latched analog input value of channel 0 to 15	R
30544 ~ 30559 40544 ~ 40559	Low latched analog input value of channel 0 to 15	R
00096 ~ 00111	Open wire status of channel 0 to 15, 1 for open wire	R
00127	Write 1 to reload default settings	W
00128	Write 1 to set Modbus TCP ID to 1	W
00133	Write 1 to reboot module	W
00141	Sampling rates, 0: 1.5 Hz, 1: 100 Hz	R/W
00142	Write 1 to reload factory calibration parameters	W
00267	1: enable, 0: disable CJC	R/W
00279	Write 1 to clear all high latched analog input values	W
00280	Write 1 to clear all low latched analog input values	W
00384 ~ 00399	Write 1 to clear high latched analog input value of channel 0 to 15	W
00416 ~ 00431	Write 1 to clear low latched analog input value of channel 0 to 15	W

6.4.5 Modbus Register Table for (P)ET-2224CIS/(P)ET-2228CIS

Coils	(0xxxx)
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Regi	ister	Points	Description	Data Format	Attribute	Factory
DEC	HEX	Fonts	Description		Attribute	Value
00226	00E2	1	Reset the all settings to the factory default state	1: Reset	W	-
00233	00E9	1	Reboot the module	1: Reboot	W	-
00340: 00347	0154: 015B	4/8	Set OVP Alarm Enable (0/1=Disable/Enable) /Read OVP Alarm Enable Status	0: Disable 1: Enable	R/W/F	0
00360: 00367	0168: 016F	4/8	Clear OVP Alarm Status (wr:1) /Read OVP Alarm Status	(wr:1) 0/1=Normal/Alarm	R/W/F	0
00631	0277	1	Set the AO data format	0: Hexadecimal format 1: Engineering unit	R/W/F	0
00632	0278	1	Reset the AO calibration to the factory settings	1: Reset	W	-
00769: 00776	0301: 0308	4/8	Enable retained analog output for channel 0 to 7	0: Disable 1: Enable	R/W/F	0

F : Setting are recorded in flash by default

Discrete Inputs (1xxxx)

Regi	egister		Description	Data Format	Attribute
DEC	HEX	IEX Points	Description	Data Format	Allribule
10290: 10297	0122: 0129	4/8	Read Current mode wire break status.	0: Normal 1: Wire Break	R

Input Register (3xxxx)

Regis	Register		No. Per	Description	Data Format	Attribute
DEC	HEX	Points	Point	Description		Allinbule
30000 : 30007	0000: 0007	4/8	1	ADC OVP Read Back Value	Engineering Value, 0 ~ 20000	R
30016: 30023	0010: 0018	4/8	1	Last AO Value	0 to 65535 (0x0000 to 0xFFFF)	R
30064: 30071	0010: 0018	4/8	1	AO Retained Value	0 to 65535 (0x0000 to 0xFFFF)	R
30330	014A	1	1	Number of the AO channel	1	R
30351	015F	1	1	Firmware version	0x0123 means version V01.2.3	R
30360	0168	1	1	Communication state of the pair-connection	1: Connect 0: Disconnect	R

Regi	ster	Points	No. Per	Description	6.4	Factory																
DEC	DEC HEX Points		Point	Data Format	Attribute	Value																
40000:	0000:			AO value																		
40007	0007	4/8	1	0 to 65535 (0x0000 to 0xFFFF)	R/W	-																
				Set the module identification (Modbus NetID)		1																
40271	010F	1	1	1~247	R/W/F																	
40360:	0168:			Set the power-on value for the AO channel																		
40367	016F	4/8	1	0 to 65535 (0x0000 to 0xFFFF)	R/W/E	0																
40392:	0188:			Set the safe value for the AO channel																		
40399	018F	4/8	1	0 to 65535 (0x0000 to 0xFFFF)	R/W/F	0																
				Set the AO range																		
40459: 40466	01CB: 01D2	4/8	1	0x30: 0 ~ 20 mA 0x31: 4 ~ 20 mA 0x32: 0 ~ 10 V 0x34: 0 ~ 5 V	R/W/F	0x32																
				Set the AO slew rate range																		
																				0x00: Immediate		
																				0x01: 0.0625 V/sec or 0.125 mA/sec		
					0x02: 0.125 V/sec or 0.25 mA/sec																	
				0x03: 0.25 V/sec or 0.5 mA/sec																		
				0x04: 0.5 V/sec or 1.0 mA/sec																		
				0x05: 1.0 V/sec or 2.0 mA/sec																		
40523:		4/8	1	0x06: 2.0 V/sec or 4.0 mA/sec	R/W/F	0x00																
40530	0212	., c	_	0x07: 4.0 V/sec or 8.0 mA/sec	,, .																	
				0x08: 8.0 V/sec or 16 mA/sec																		
				0x09: 16 V/ser or 32 mA/sec																		
				0x0A: 32 V/sec or 64 mA/sec																		
				0x0B: 64 V/sec or 128 mA/sec																		
				0x0C: 128 V/sec or 256 mA/sec																		
				0x0D: 256 V/sec or 512 mA/sec																		
				0x0E: 512 V/sec or 1024 mA/sec																		
				Read the module reset status																		
40555	022B	1	1	1: Power-on	R	۶ -																
				2: Module Watchdog																		
				3: Software Reset Command																		

Regi	egister Points		Register No. I		No. Per	Description	Attribute	Factory
DEC	HEX	Points	Point	Data Format	Allribule	Value		
40556	022C	1	1	Read the boot count of the module. The factory default value is 0, when Reset to factory default.	R	-		
				1 to 32767				
				Set the Host WDT timeout (unit: second)				
40557	022D	1	1	0 ~ 4: Disable the Host WDT 5 ~ 65535: Enable the Host WDT	R/W/F	0		
40558	022E	1	1	Read the WDT event count. The initial value is 0 when the module is reset, and is increased when the WDT even happens.	R	-		
				0 to 32767				
40550	0225	4	4	Read the module ID	5			
40559	022F	1	1	0x2324/0x2328	R	-		
40580:	0244:	4 /0	1	Set Over Value Protect Value				
40587	024B	4/8	1	Engineering Value, 0 ~ 20000	R/W/F	-		

6.4.6 Modbus Register Table for (P)ET-2224CI/(P)ET-2228CI

Coils	(0xxxx)
-------	---------

Regi	ster	Points	Description	Data Format	Attribute	Factory
DEC	HEX	i onto		Data Format	Attribute	Value
00226	00E2	1	Reset the all settings to the factory default state	1: Reset	W	-
00233	00E9	1	Reboot the module 1: Reboot W		W	-
00631	0277	1	Set the AO data format	0: Hexadecimal format 1: Engineering unit	R/W/F	0
00632	0278	1	Reset the AO calibration to the factory settings	1: Reset	W	-
00769: 00776	0301: 0308	4/8	Enable retained analog output for channel 0 to 7	0: Disable 1: Enable	R/W/F	0

F : Setting are recorded in flash by default

Discrete Inputs (1xxxx)

Regi	ister	Points Description		Data Format	Attribute	
DEC	HEX	Points	Description	Data Format	Attribute	
10290: 10297	0122: 0129	4/8	Read Current mode wire break status.	0: Normal 1: Wire Break	R	

Input Register (3xxxx)

Regi	ster	Points	No. Per	Description	Data Format	Attribute
DEC	HEX	Points	Point	Description	Data Format	Allfibule
30016: 30023	0010: 0018	4/8	1	Last AO Value	0 to 65535 (0x0000 to 0xFFFF)	R
30064: 30071	0010: 0018	4/8	1	AO Retained Value	0 to 65535 (0x0000 to 0xFFFF)	R
30330	014A	1	1	Number of the AO channel	1	R
30351	015F	1	1	Firmware version	0x0123 means version V01.2.3	R
30360	0168	1	1	Communication state of the pair-connection	1: Connect 0: Disconnect	R

Regi	ster		No. Per	Description	A	Factory												
DEC	HEX	Points	Point	Data Format	Attribute	Value												
40000:	0000:	. /0	_	AO value	5 /14/													
40007	0007	4/8	1	0 to 65535 (0x0000 to 0xFFFF)	R/W	-												
				Set the module identification (Modbus NetID)														
40271	010F	1	1	1~247	R/W/F	1												
40360:	0168:	_		Set the power-on value for the AO channel														
40367	016F	4/8	1	0 to 65535 (0x0000 to 0xFFFF)	R/W/E	0												
40392:	0188:			Set the safe value for the AO channel														
40399	018F	4/8	1	0 to 65535 (0x0000 to 0xFFFF)	R/W/F	0												
				Set the AO range														
40459: 40466	01CB: 01D2	4/8	1	0x30: 0 ~ 20 mA 0x31: 4 ~ 20 mA 0x32: 0 ~ 10 V 0x34: 0 ~ 5 V	R/W/F	0x32												
				Set the AO slew rate range														
								0x00: Immediate	-									
									0x01: 0.0625 V/sec or 0.125 mA/sec									
																0x02: 0.125 V/sec or 0.25 mA/sec		
									0x03: 0.25 V/sec or 0.5 mA/sec									
				0x04: 0.5 V/sec or 1.0 mA/sec														
				0x05: 1.0 V/sec or 2.0 mA/sec														
40523:		4/8	1	0x06: 2.0 V/sec or 4.0 mA/sec	R/W/F	0x00												
40530	0212	1,0	-	0x07: 4.0 V/sec or 8.0 mA/sec	,,.	UNUU												
				0x08: 8.0 V/sec or 16 mA/sec														
				0x09: 16 V/ser or 32 mA/sec														
				0x0A: 32 V/sec or 64 mA/sec														
				0x0B: 64 V/sec or 128 mA/sec														
				0x0C: 128 V/sec or 256 mA/sec														
				0x0D: 256 V/sec or 512 mA/sec														
				0x0E: 512 V/sec or 1024 mA/sec														
				Read the module reset status														
40555	022B	1	1	1: Power-on	R	-												
		+		-	2: Module Watchdog													
				3: Software Reset Command														

Regis	ster	Points	No. Per	Description	Attribute	Factory
DEC	HEX	Points	Point	Data Format	Attribute	Value
40556	022C	1	1	Read the boot count of the module. The factory default value is 0, when Reset to factory default.	R	-
				1 to 32767		
				Set the Host WDT timeout (unit: second)		
40557	022D	0 1	1	0 ~ 4: Disable the Host WDT 5 ~ 65535: Enable the Host WDT	R/W/F	0
40558	022E	1	1	Read the WDT event count. The initial value is 0 when the module is reset, and is increased when the WDT even happens.	R	-
				0 to 32767		
40559	022F	1	1	Read the module ID	R	
40359	UZZF	L L	L	0x2324/0x2328	Ň	-

6.4.7 Modbus Register Table for (P)ET-2224/2228

Coils (0xxxx)

Regi	ster	Points	Description	Data Format	Attribute	Factory
DEC	HEX	Points	Description	Data Format		Value
00226	00E2	1	Reset the I/O settings to the	1: Reset	W	-
			factory default state			
00233	00E9	1	Reboot the module	1: Reboot	W	-
		0277 1		0:		
00631	0277		Set the AO data format	Hexadecimal format	R/W/E	0
				1: Engineering unit		
00632	0278		Reset the AO calibration to the	1: Reset	W	
00052	0278	1	factory settings		vV	-

Discrete Inputs (1xxxx)

Regi	ister	Points Description		Data Format	Attribute	
DEC	HEX	Points	Description	Data Format	Attribute	
10290: 10297	0122: 0129	4/8	Read the Current mode wire break status.	0: Normal 1: Wire Break	R	

Input Register (3xxxx)

Regi	ster	Points	No. Per	Description	Data Format	Attribute
DEC	HEX	Points	Point	Description		Attribute
30330	014A	1	1	Number of the AO channel	8	R
30351	015F	1	1	Firmware version	0x123 means	р
20221	UT2L	Ţ	1		version 1.2.3	R
20260	0169	1	1	0: Normal		R
30360 0168		1 1		Communication state of the pair-connection	<0: Failed	Ň

Regi	ister	Points	No. Per	Description	Data Format	Attribute	Factory						
DEC	HEX	Points	Point	Description	Data Format	Attribute	Value						
40000:	0000:	4/8	1	AO value	-32768 to 32767	R/W							
40007	0007	4/0	T		(0x0000 to 0xFFFF)		-						
40271	010F	1	1	Set the module identification (Modbus NetID)	0 to 255	R/W/E	1						
40360:	0168:	4/8	1	Set the power-on value for	-32768 to 32767		0						
40367	016F	4/8	1	the AO channel	(0x0000 to 0xFFFF)	R/W/E	0						
40392:	0188:	4/0	A /O	л /о	л /о	л /о	л /o	4/8	1	Set the safe value for the AO	-32768 to 32767		0
40399	018F	4/8	Ţ	channel	(0x0000 to 0xFFFF)	R/W/E	0						
					0x30: 0~20 mA								
					0x31: 4~20 mA								
40459:	01CB:	л /o	1	Set the AO range	0x32: 0~10 V	D/\\//E	0,22						
40466	01D2	4/8	T	Set the AU fallge	0x33: +/-10 V	R/W/E	0x32						
					0x34: 0~5 V								
					0x35: +/-5 V								

Reg	ister	Points	No. Per	Description	Data Format	Attribute	Factory
DEC	HEX	Points	Point	Description	Data Format	Attribute	Value
DEC 40523 40530		4/8	Point	Set the AO slew rate range	0x00: Immediate 0x01: 0.0625 V/sec or 0.125 mA/sec 0x02: 0.125 V/sec or 0.25 mA/sec 0x03: 0.25 V/sec or 0.5 mA/sec 0x04: 0.5 V/sec or 1.0 mA/sec 0x05: 1.0 V/sec or 2.0 mA/sec 0x06: 2.0 V/sec or 4.0 mA/sec 0x06: 2.0 V/sec or 4.0 mA/sec 0x07: 4.0 V/sec or 8.0 mA/sec 0x08: 8.0 V/sec or 16 mA/sec 0x09: 16 V/sec or 32 mA/sec 0x10: 32 V/sec or 64 mA/sec 0x11: 64 V/sec or 128 mA/sec 0x12: 128 V/sec or 256 mA/sec 0x13: 256 V/sec or 512 mA/sec	R/W/E	0x00
				0x11: 64 V/sec or 128 mA/sec 0x12: 128 V/sec or 256 mA/sec			

Regi	ster	Points	No. Per	Description	Data Format	Attribute	Factory	
DEC	HEX	PUIIIts	Point	Description	Data Format	Allibule	Value	
					1: Power-on			
40555	022B	1	1 1	Read the module reset status	2: Module Watchdog	R	_	
40555	0220	1	T		3: Software Reset	Ň		
					Command			
				Read the boot count of the				
40556 022C	1	1	module. The factory default	1 to 32767	R			
40550	0220			value is 0 when the settings are	1 10 32707	K		
				set to the factory default values.				
					0:			
40557	022D	1	1	Set the Host WDT timeout	Disable the Host WDT	R/W/E	0	
40557	0220	1		(unit: second)	6 to 65535:		U	
					Enable the Host WDT			
				Read the WDT event count.				
40558	022E	1	1	The initial value is 0 when the	0 to 32767	R	_	
40558	UZZL				module is reset and is increased	0 10 32707	Ň	
				when the WDT event happens.				
40559	022F	1	1	Read the module name	0x2224/0x2228	R	-	

6.5 Analog Input Type and Data Format Table

Type Code	Input Type	Data Format	Max.	Min.
05		Engineering unit	+25000	-25000
05	-2.5 to +2.5 V	2's comp HEX	7FFF	8000
06	-20 to +20 mA	Engineering unit	+20000	-20000
06	-20 to +20 mA	2's comp HEX	7FFF	8000
07	+4 to +20 mA	Engineering unit	+20000	+4000
07	+4 to +20 mA	2's comp HEX	FFFF	0000
08	-10 to +10 V	Engineering unit	+10000	-10000
08	-10 (0 +10 V	2's comp HEX	7FFF	8000
09	-5 to +5 V	Engineering unit	+5000	-5000
09	-5 10 +5 V	2's comp HEX	7FFF	8000
0A	-1 to +1 V	Engineering unit	+10000	-10000
UA	-1 (0 +1 V	2's comp HEX	7FFF	8000
0D	-20 to +20 mA	Engineering unit	+20000	-20000
	-20 t0 +20 mA	2's comp HEX	7FFF	8000
1A	0 to +20 mA	Engineering unit	+20000	0
		2's comp HEX	FFFF	0000

6.6 RTD Type Code Table

Type Code	RTD Type	Min.	Max.
0x20	Pt 100, α = 0.00385, -100 ~ 100°C	-10000	10000
0x21	Pt 100, α = 0.00385, 0 ~ 100°C	0	10000
0x22	Pt 100, α = 0.00385, 0 ~ 200°C	0	20000
0x23	Pt 100, α = 0.00385, 0 ~ 600°C	0	60000
0x24	Pt 100, α = 0.003916, -100 ~ 100°C	-10000	10000
0x25	Pt 100, α = 0.003916, 0 ~ 100°C	0	10000
0x26	Pt 100, α = 0.003916, 0 ~ 200°C	0	20000
0x27	Pt 100, α = 0.003916, 0 ~ 600°C	0	60000
0x28	Ni 120, -80 ~ 100°C	-8000	10000
0x29	Ni 120, 0 ~ 100°C	0	10000
0x2B	Cu 100, α = 0.00421, -20 ~ 150°C	-2000	15000
0x2C	Cu 100, α = 0.00427, 0 ~ 200°C	0	20000
0x2E	Pt 100, α = 0.00385, -200 ~ 200°C	-20000	20000
0x2F	Pt 100, α = 0.003916, -200 ~ 200°C	-20000	20000
0x80	Pt 100, α = 0.00385, -200 ~ 600°C	-2000	6000
0x81	Pt 100, α = 0.003916, -200 ~ 600°C	-2000	6000
0x82	Cu 50, -50 ~ 150°C	-5000	15000
0x83	Ni 100, -60 ~ 180°C	-6000	18000
0x84	Ni 120, -80 ~ 150°C	-8000	15000
0x85	Cu 100, α = 0.00428, 0 ~ 150°C	0	15000
0x86	Pt 100, α = 0.00385, -100 ~ 300°C	-10000	30000
0x87	Pt 100, α = 0.003916, -100 ~ 300°C	-10000	30000

For ranges of type code 0x23 and 0x27, the under range value is 0 and the over range value is +65535. For other ranges, the under range value is -32768 and the over range value is +32767.

6.7 Thermocouple Type Code Table

Type Code	Thermocouple Type	Min.	Max.
0x0E	Type J Thermocouple -210 ~ 760°C	-2100	7600
0x0F	Type K Thermocouple -270 ~ 1372°C	-2700	13720
0x10	Type T Thermocouple -270 ~ 400°C	-2700	4000
0x11	Type E Thermocouple -270 ~ 1000°C	-2700	10000
0x12	Type R Thermocouple 0 ~ 1768°C	0	17680
0x13	Type S Thermocouple 0 ~ 1768°C	0	17680
0x14	Type B Thermocouple 0 ~ 1820°C	0	18200
0x15	Type N Thermocouple -270 ~ 1300°C	-2700	13000
0x16	Type C Thermocouple 0 ~ 2320°C	0	23200
0x17	Type L Thermocouple -200 ~ 800°C	-2000	8000
0x18	Type M Thermocouple -200 ~ 100°C	-20000	10000
0x19	Type LDIN43710 Thermocouple -200 ~ 900°C	-2000	9000

The under range value is -32768 and the over range value is +32767.

Appendix A: Troubleshooting

A.1 How can I Factory Reset the Module (Password: Admin)?

If the module encounters an anomaly and you cannot access the module's web server for configuration, or if you have forgotten the login password, you can perform a factory reset of the module. Please note that after completing the following steps, all of your customized settings will be erased

Init

Run

Step 1

Adjust the Init/Run switch to the "Init" mode and reboot the module to load factory settings, including the default web password.

Step 2

Execute the eSearch Utility to verify that the module has been reset to the factory settings. For example, the default IP address is "192.168.255.1". And then, modify the network settings (e.g., the IP, Mask, and Gateway addresses) and click the **"OK"** button.

	🍜 eSearch Utility [v1.2.6, Dec.09, 2020]				– 🗆 🗙		
_	File Server Tools						
\bigcap	Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Address	
2	iDS-720	UA-Serie	192.168.85.23	255.255.0.0	192.168.1.1	90:70:65:40:A0:C7	
\sim	ET-2260	EtheriO	192.168.255.1	255.255.0.0	192.168.0.1	00:0d:e0:65:e9:85	
	E 1-2260 DL-302 DL-202	#2 EtherIO	192.168.79.100 192.168.84.62	255.255.0.0	192.168.1.1 192.168.0.1	00:0d:e0:65:cf:d3 00:0d:e0:92:06:69	
\frown	DL-302 ET-7255/PET-7255	Etherl0 Sla∨e	192.168.101.15 192.168.79.55	255.255.0.0 255.255.0.0	192.168.1.1 192.168.1.1	00:0D:E0:92:00:A1 00:0d:e0:65:ed:d1 v	
(1)	<					>	
\sim	Search Serve	r Confi	iguration (UDP)	Web		Exit	
	Status						1
Configure	Server (UDP)	\frown					×
Server	Name : ET-2260	3					
DHCP:	0: OFF	• S	ub-net Mask : 2	55.255.0.0	Alias:	#1	
IP Addr	ess: 192.168.79.10) G	ateway: 19	92.168.1.1	MAC:	00:0d:e0:65:e9:85	
Warnin Contac	ng!! t your Network Administ	rator to get co	rrect configuratio	n before any chang	ing!	OK Cancel	

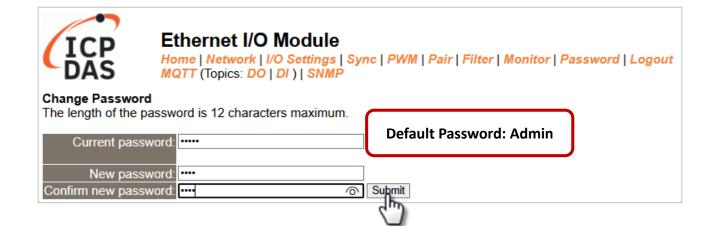
Step 3

Adjust the Init/Run switch back to the **"Run"** mode and reboot the module.



Step 4

Log in to the ET-2200 web server. Enter the factory password "Admin" and specify the new password, and then click the **Submit** button to save the settings.



-200 -

A.2 How to update the firmware via Ethernet?

If the module is not functioning correctly (e.g. there is no response to a search request, or if the system LED is continuously displayed as either OFF or ON), download new firmware from the ICPDAS website. http://www.icpdas.com/en/download/show.php?num=2626

To update the Firmware for your ET-2200 module, connect the ET-2200 module and PC in the same sub-network. Please note that there should be only one network card on the PC. Then, download and install the **eSearch Utility**:

http://www.icpdas.com/en/product/guide+Software+Utility_Driver+eSearch__Utility

Step 1: Run the eSearch utility and click on the Search Server button to find the ET-2200 module.Step 2: Right-click on the module name and select Firmware Update.

🥩 eSearch Utility [v1.2.	6, Dec.09, 2	2020]			>	<
File Server Tools						
Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Address	^
iDS-720	UA-Seri	ie 192.168.85.23	255.255.0.0	192.168.1.1	90:70:65:40:A0:C7	
ET-2260 ET-2260 DL-302 DL-302 ET-7255/PET-7255	#1 #2 Ethe Ethe Slav		2 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0 5.0.0	192.168.1.1 192.168.1.1 192.168.0.1 192.168.1.1 192.168.1.1	00:0d:e0:65:e9:85 00:0d:e0:65:cf:d3 00:0d:e0:92:06:69 00:0D:E0:92:00:A1 00:0d:e0:65:ed:d1	1
Status		Locate) Web		Exit	

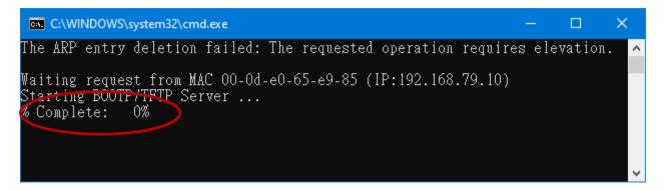
Step 3: Select the firmware file and click on the Open button.

ø Open								×
$\leftarrow \rightarrow \cdot \cdot \uparrow$	C Desk	> ET2200_v201	~ (Ū		200_v20	01_19082	22
Organize 🔻	New folder					•		?
ET2200.dat								
	File name:	ET2200.dat		~	firmware file (*.d	lat)		\sim
					Open		Cancel	

Step 4: Make sure the IP address and MAC address are correct. Click on the OK button.

Firm	ware Update (Tiny	Module only)			×
	Note: This IP /		ending on y	our network,	
	while the MAC				
		192.168.79.1	U	For Updating	
	MAC Address	00:0d:e0:65:	e9:85	MAC Finder	
		ок	Cancel		

Step 5: The progress 0% will be displayed in a command prompt window. Follow the steps.



Method 1 - Local Update:

Set the Init/Run switch to the "Init" position and reboot the module to start the update.

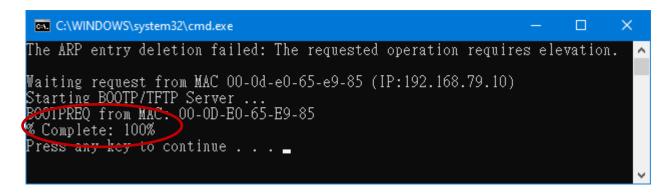
Method 2 - Remote Update:

Click the **Web** button and log into the web page of the module, and then click the **Update** button on the **Network** page to start the update.

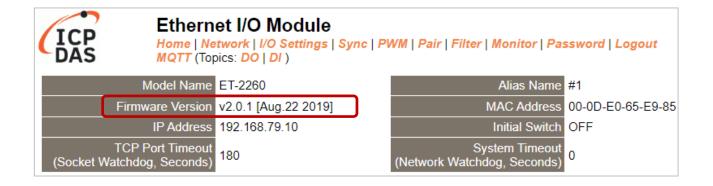
🥩 eSearch Utility [v1.2	.6, Dec.09, 2020				>	×
File Server Tools						
Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Address	~
ET-2260	#1	192.168.79.10	255.255.0.0	192.168.1.1	00:0d:e0:65:e9:85	
ET-2260 DL-302 DL-302 ET-7255/PET-7255	#∠ Etherl0 Etherl0 Slave	192.168.79.100 192.168.84.62 192.168.101.15 192.168.79.55	255.255.0.0 255.255.0.0 255.255.0.0 255.255.0.0	192.168.1.1 192.168.0.1 192.168.1.1 192.168.1.1	00:0d:e0:65:cf:d3 00:0d:e0:92:06:69 00:0D:E0:92:00:A1 00:0d:e0:65:ed:d1	~
Search Serve	er Cont	figuration (UDP)	Web	<u>_</u>	Exit	



Step 6: After the update is complete, press any key to close the window. For the local update, Set the Init/Run switch to the **"Run"** position and reboot the module.

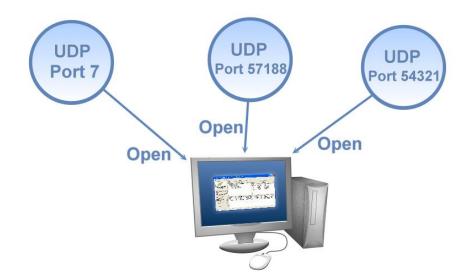


Step 7: Search the module again and log into the web page by using the eSearch Utility.After that, the user can check the Firmware Version on the Home page.



A.3 Why is the Host computer unable to ping or search for the

ET-2200 module?



The Host computer can only establish communication with a module through specific ports. Confirm with your network administrator that access to UDP Port 7, Port 57188, and Port 54321 is not being denied by another network device.

The following provides more detailed information related to TCP/UDP ports:

TCP Port:

Port Number	Description
80	HTTP (Hyper Text Transport Protocol)
502	Modbus Data Port

UDP Port:

Port Number	Description
7	Echo (Ping)
57188	UDP Search Request
54321	UDP Search Response

A.4 What is Digital-Input Filter (DI Filter)?

A: An input signal can come from a myriad of sources, such as buttons, switches, sensors, relays, etc. Each of these types of mechanical devices also contributes to a common problem - "**contact bounce**".

The switch between Digital Input states is usually accompanied by several unwanted pulses, known as "switch bounce". In certain environments and situations, these input signals may inevitably generate an unstable signal or noise, which can potentially cause incorrect data counting or operation failure. Consequently, these errors must be removed from the input signals, especially if the signals are used in crucial applications.

A low-pass Digital Input filter is a software function that can be used to eliminate high-frequency interference from input signals. The input state will only be changed when the width of any new signal is greater than the value specified as the filtering time, meaning that short, high-frequency interference pulses will be ignored, as illustrated in the diagram below. This is especially useful when attempting to eliminate contact bounce.

