

### ET-2260 Quick Start

v1.2, Jun. 2018

### What's in the box?

The package includes the following items:





Quick Start x1 (This Document)

### **Related Information**

- ET-2200 Series Product Page: <u>http://www.icpdas.com/root/product/solutions/remote\_io/ethernet\_io/petl-7000\_tpet\_tet</u> /petl\_series\_main\_page.html
- Documentation & Firmware:

http://ftp.icpdas.com.tw/pub/cd/6000cd/napdos/et2200/

NS-205/MDR-20-24 Product Page (optional):

http://www.icpdas.com/root/product/solutions/industrial\_ethernet\_switch/ns-205.html http://www.icpdas.com/root/product/solutions/accessories/power\_supply/mdr-20-24.html

### Connecting the Power and Host PC

1) Make sure your PC has workable network settings.

Disable or well configure your Windows firewall and Anti-Virus firewall first, else the "**Search Servers**" on **Chapter 5** may not work. (Please contact with your system Administrator)

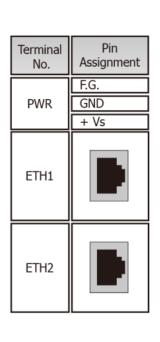
- 2) Connect both the ET-2260 and your PC to the same sub network or the same Ethernet switch.
- 3) Supply power (+10~+30 VDC) to the ET-2260.

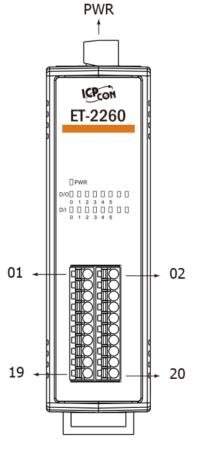
4) Verify that the "PWR" LED indicator on the ET-2260 is flashing.



# **2** Pin Assignments & Wiring Note

> Pin Assignments:





Terminal No.	Pin Assignment	Pin Assignment	Terminal No.
01	NO0	GND	02
03	COM0	DIO	04
05	NO1	DI1	06
07	COM1	DI2	08
09	NO2	DI3	10
11	COM2	DI4	12
13	NO3	DI5	14
15	COM3	DICOM	16
17	NO4	NO5	18
19	COM4	COM5	20

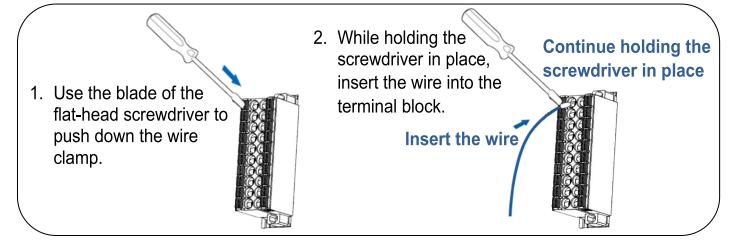
#### Wire Connections:

Digital Input/ Counter	Readback as 1	Readback as 0	Power Relay	Readback as 1
	Close to GND	Open		
Dry Contact	→ GND → HS5 V → HS5 V → HS5 V → HS5 V → HS5 V → HS5 V	GND GND +S5 V C DIx	ON State	COMx Relay Close
	+10 ~ +50 Vdc	OPEN or <4 VDC		Readback as 0
Sink	DIX 10K	DIx 10K	OFF State	COMx Relay Open
	+10 ~ +50 VDC	OPEN or <4 VDC		NOx
Source	DIx 10K	DIx 10K		

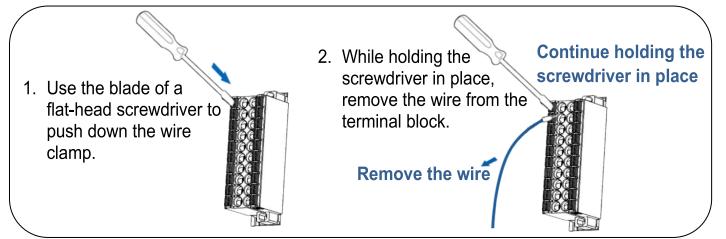
Technical support: <a href="mailto:service@icpdas.com">service@icpdas.com</a>



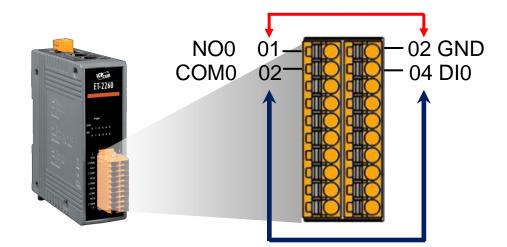
#### A tip for connecting the wire to the connector



A tip for removing the wire from the connector



- 1) Connect the NO0 pin (Pin01) to the GND pin (Pin02).
- 2) Connect the COM0 pin (Pin03) to the DI0 pin (Pin04).





#### > (0xxxx) DO address:

Begin address	Points	Description	Bits Per Point	Range	Access Type
0 (0x0)	1~6	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
•		•••			
190 (0xBE)	1~6	Enables frequency measurement for all DI Channels	1	0: Disable 1: Enable (Default: 0)	R/W/F
235 (0xEB)	1~6	Sets the Power-on value for all DO Channels	1	0: OFF, 1: ON (Default: 0)	R/W/F
267 (0x10B)	1~6	Sets the Safe value for all DO Channels	1	0: OFF, 1: ON (Default: 0)	R/W/F

"R": Read; "W": Write; "F": Settings are recorded in flash memory by default

#### (1xxxx) DI address:

Begin address	Points	Description	Bits Per Point	Range	Access Type
0 (0x0)	1~6	Digital Input	1	0:Off 1:On	R
32 (0x20)	1~6	Digital latched status (high)	1	0:no 1:latched	R
64 (0x40)	1~6	Digital latched status (low)	1	0:no 1:latched	R

"**R**": Read

#### A Note

For detail "DI/DO Modbus Address" information, refer to Section 6.3 Modbus Register Table of user's manual (<u>http://ftp.icpdas.com/pub/cd/6000cd/napdos/et2200/document/</u>).

# **5** Configuring Network Settings

1) Run the eSearch Utility.

The eSearch Utility is located at:



http://ftp.icpdas.com/pub/cd/6000cd/napdos/software/esearch/

2) Click the "Search Servers" to search your ET-2260.

3) Double-click your ET-2260 to configure the settings

🥩 eSearch Utility [v1.	1.14, Jul.10, 2	017]		_	- 🗆	×
File Server Tools		в				
Name ET-2260	Alias EtherlO	IP Address 192.168.255.1	Sub-net Mask 255.255.0.0	Gateway 192.168.0.1	MAC Ad 00:0d:e	
ET-7242/PET-7242	N/A	10.0.8.49	255.255.255.0	10.0.8.254	00:0d:e	0:65:3
< 2						>
Search Serve	r Config	juration (UDP)	Web E	xit		
Status						

#### Factory Default Settings of ET-2260:

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

4) Contact your Network Administrator to obtain a correct network configuration (such as IP/Mask/Gateway). Enter the network settings and click "OK". A Note: The ET-2260 will use the new settings 2 seconds later.

Configure Server (U	DP)						×
Server Name :	ET-2260		4				
DHCP: IP Address :	0: OFF 10.0.8.66	•	Sub-net Mask : Gateway :	255.255.255.0 10.0.8.254	Alias: MAC:	EtherIO	ła:9f
yyarning:: Contact your Ne	twork Administ:	rator to get	t correct configura	ation before any changing!		ок	Cancel

# 6 Testing your Ethernet I/O Module

- 1) Wait 2 seconds and click "Search Servers" button again to ensure the ET-2260 is working well with new configuration.
- 2) Click the name of ET-2260 to select it.
- 3) Click the "Web" button to log in to the web configuration pages.

(Or enter the URL address of the ET-2260 in the address bar of the browser.)

🥩 eSearch Utility [ v1.1	1.14, Jul.10, 20	17]		-	- 🗆	×
File Server Tools		2				
Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Ad	dress
ET-2260	EtherIO	10.0.8.66	255.255.255.0	10.0.8.254	00:0d:e	0:c7:8
ET-7042/PET-7042 ET-7242/PET-7242 ET-7255/PET-7255	N/A N/A aaaaa	10.0.8.49 10.0.8.237	255.255.255.0 255.255.255.0 255.255.255.0	10.0.8.254	00:0d:e 00:0d:e 00:0d:e	0:65:3
< 1			3			>
Search Server	r Config	uration (UDP)	Web	×it		

4) Enter the password (default: Admin) in the "login password" field and click "Submit".

Et	hernet I/O Modu	le Z
CDA3 Hor	ne   Network   I/O Setting	gs   Sync   PWM   Pair   Filter   🌆
The system is logged o To enter the web configu		the following field.
Login password:	4	Submit
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

**5)** In the **"Home"** page allows a simple test to be performed to verify the Digital Input and Output functionality.

	net I/O Module //etwork   //O Settings   Sync   PV	NM   Pair   Filter   Monitor   Ch	ange Password   Logout
Model Name Firmware Version		Alias Name:	EtherIO 00-0d-e0-c7-8a-9f
IP Address		Initial Switch:	
TCP Port Timeout (Socket Watchdog, Seconds)		System Timeout: (Network Watchdog, Seconds)	0
Digital I/O (Modbus Addı	ress: DO=00000 to 00015, D	DI=10000 to 10015)	}
DO7 DO6	D05 🕐 D04 🕐	DO3 🕐 DO2 🕐	D01 🕐 D00 🔥
DI Channel Value (1	0000) Counter (30016) / (30064		032) Low Latched (10064)
D10:	-	-	
DI1:	- 	-	

- 6) In the "Digital I/O" section, click the "DO0" button to ON (Red).
- 7) The corresponding DI becomes green for DI0 is ON.

LCP-S	Ethernet I/O M Home   Network   I/O S	odule Settings   Sync   PWM   Pair   F	ilter   Monitor   Change	Password   Logout
Digital I/O (N	Nodbus Address: DO=0	0000 to 00015, DI=10000 to	o 10015)	6
DO7	DO6 DO5	D04 🕐 D03 🕐	D02 🕐 D01	
DI Channel	Value (10000)	Counter (30016) / Frequency (30064)	High Latched (10032)	Low Latched (10064)
D10:	7	-	-	
DI1:		-	-	- 2
DI2:		-	-	- 5
DI3:		-	-	
DI4:		-	-	- 2
DI5:		-	-	- {
DIG	$\sim \sim \sim$	www	man and a second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~