tET-A4/tPET-A4
Quick Start
v1.1, Feb. 2018

What's in the box?

The package includes the following items:

tET/tPET-A4 Module x 1

Quick Start x1 (This Document)

Related Information

- tET-A4/tPET-A4 Series Product Page:

http://www.icpdas.com/root/product/solutions/remote_io/ethernet_io/petl-7000_tpet_tet/tet-a4.html

- Documentation & Firmware:

http://ftp.icpdas.com/pub/cd/tinymodules/napdos/tpet/

- NS-205/NS-205PSE/DP-665 Product Page (optional):

http://www.icpdas.com/root/product/solutions/industrial_ethernet_switch/ns-205.html

http://www.icpdas.com/root/product/solutions/industrial_ethernet_switch/ns-105pse.html

http://www.icpdas.com/root/product/solutions/accessories/power_supply/dp-665.html

1 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 tET/tPET-A4 and your PC to the same sub network or the same Ethernet switch.

3) Supply power **(PoE or +12~+48 VDC)** to the tET/tPET- A4.
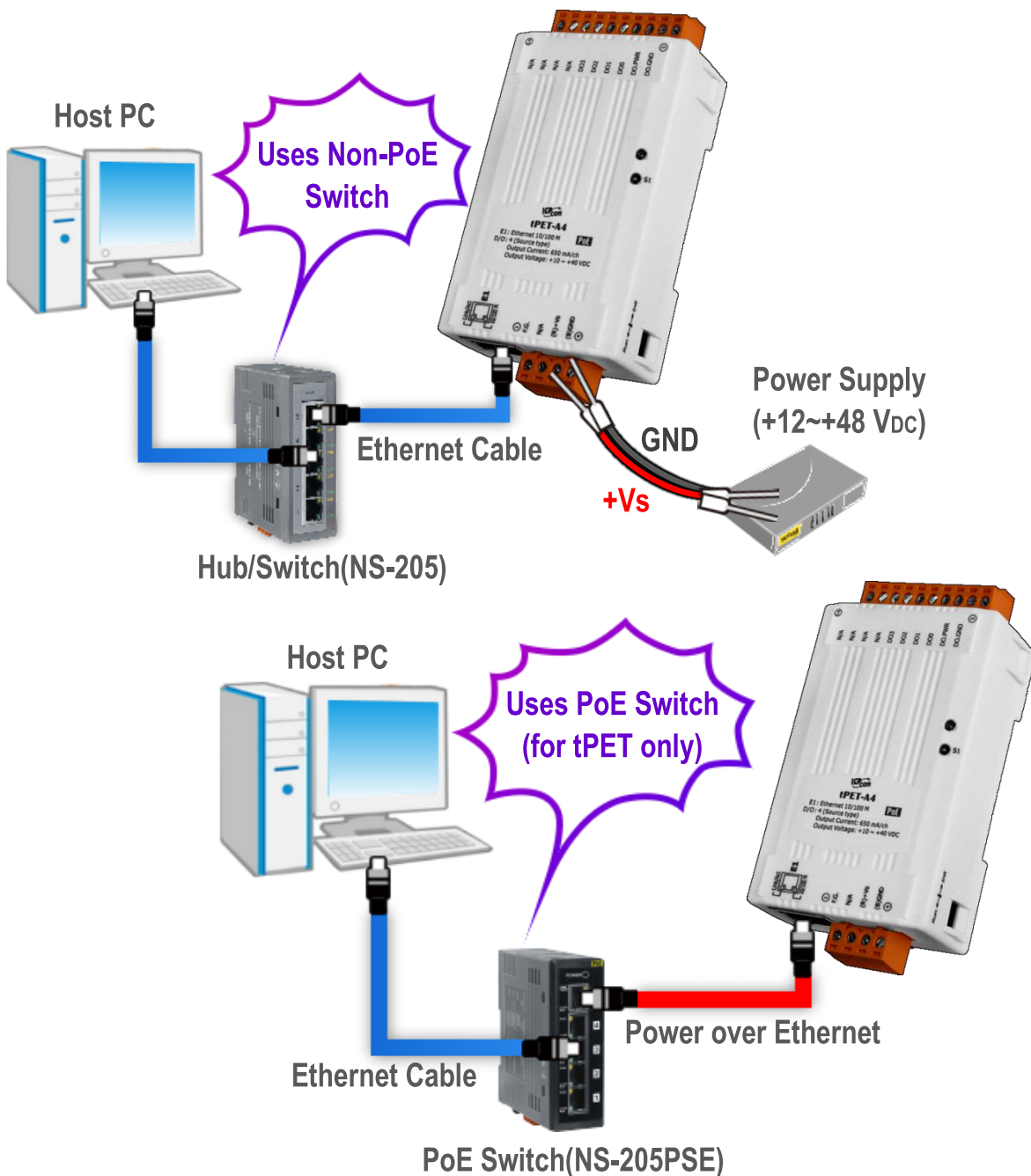
2 Pin Assignments & Wiring Note

➤ Pin Assignments:

Terminal No.	Pin Assignment
E1	(RJ connector)
01	F.G.
02	N/A
03	(R)+Vs
04	(B)GND
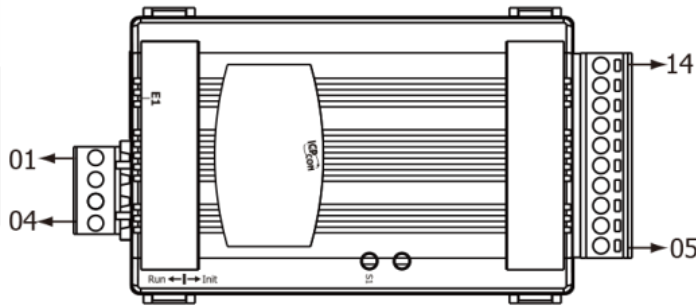
Terminal No.	Pin Assignment
14	N/A
13	N/A
12	N/A
11	N/A
10	DO3
09	DO2
08	DO1
07	DO0
06	DO.PWR
05	DO.GND

➤ Digital Output Wiring:

ON State Readback as 1	DO.PWR / Inverse protection / Fuse / Overvoltage Protection / Current Limit / ESD Protection / 10K / DOx / DO.GND / Load / To other channels
OFF State Readback as 0	DO.PWR / Inverse protection / Fuse / Overvoltage Protection / Current Limit / ESD Protection / 10K / DOx / DO.GND / Load / To other channels
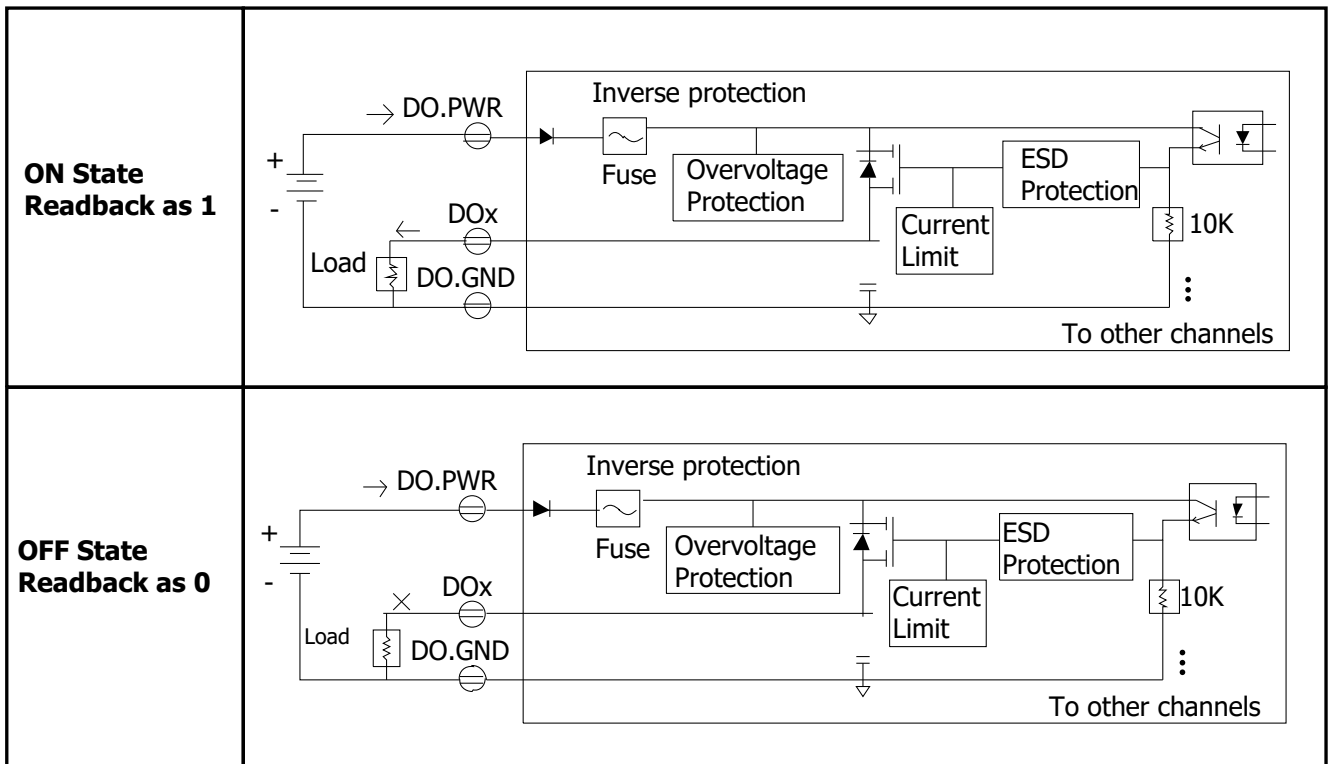
3 Wire the DO for Self-test

1) Use **output LED** to connect the **DO.GND(Pin05)** and **DO0(Pin07)**.
2) Connect the **External Power +24V** to **DO.PWR(Pin06).**
3) Connect the **External Power GND** to **DO.GND(Pin05).**

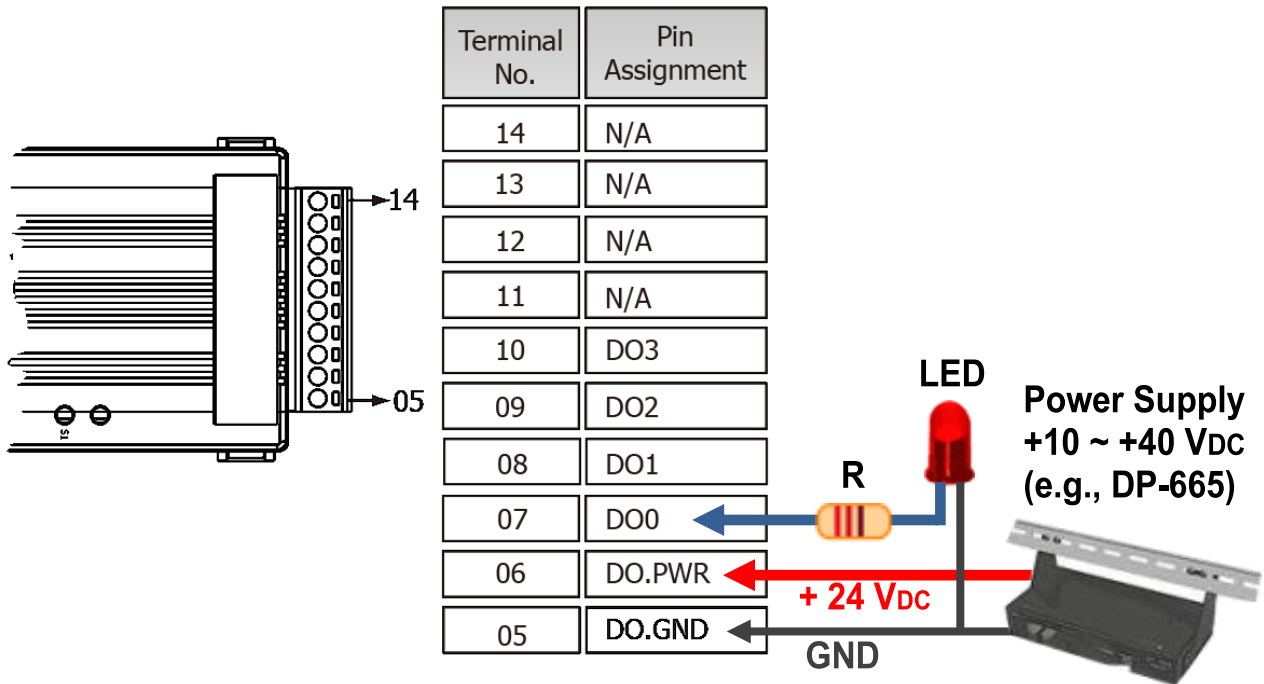| Terminal No.	Pin Assignment
14	N/A
13	N/A
12	N/A
11	N/A
10	DO3
09	DO2
08	DO1
07	DO0
06	DO.PWR
05	DO.GND

LED

R

Power Supply +10 ~ +40 V$_{DC}$ (e.g., DP-665)

+ 24 V$_{DC}$

GND

4 Modbus Address

➤ **(0xxxx) DO address:**

Begin address	Points	Description	Bits Per Point	Range	Access Type
0 (0x0)	4	Digital Output	1	0: OFF 1: ON	R/W
. .	. .	. .	. .	. .	. .
235 (0xEB)	4	Power-on value for DO	1	0: OFF 1: ON	R/W/F
267 (0x10B)	4	Safe value for DO	1	0: OFF 1: ON	R/W/F

⚠ **Note**

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

5 Configuring Network Settings

1) Run the eSearch Utility.

The eSearch Utility is located at:

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

2) Click the **"Search Servers"** to search your tET/tPET- A4.

3) Double-click your tET/tPET- A4 to configure the settings
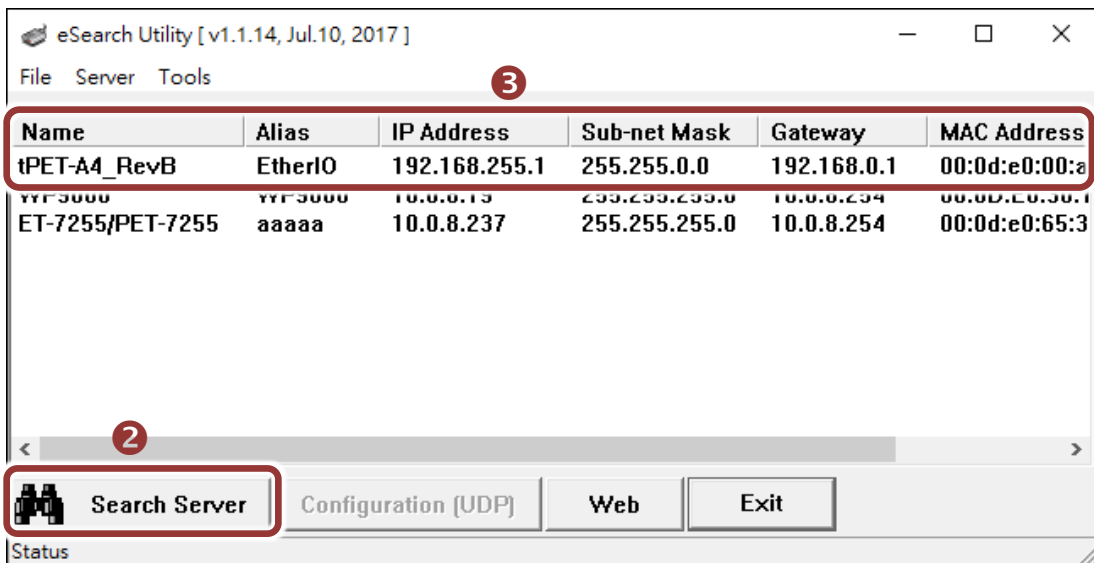
Factory Default Settings of tET/tPET-A4:

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"**. ⚠ **Note: The tET/tPET-A4 will use the new settings 2 seconds later.**

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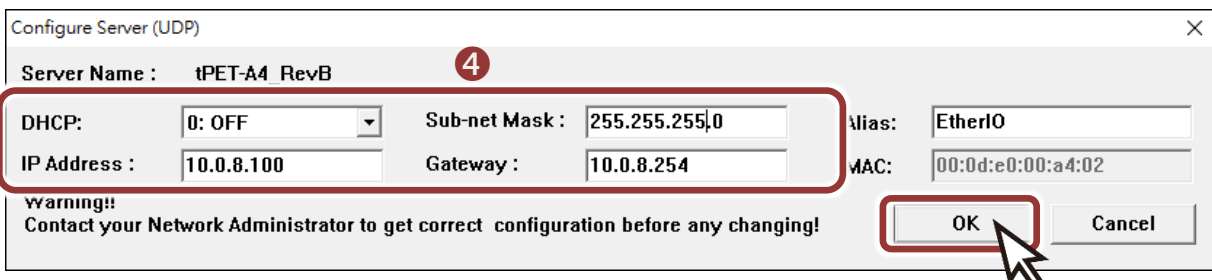
6 Testing your tET/tPET Module

1) Wait 2 seconds and click **"Search Servers"** button again to ensure the tET/tPET- A4 is working well with new configuration.

2) Click the name of tET/tPET- A4 to select it.

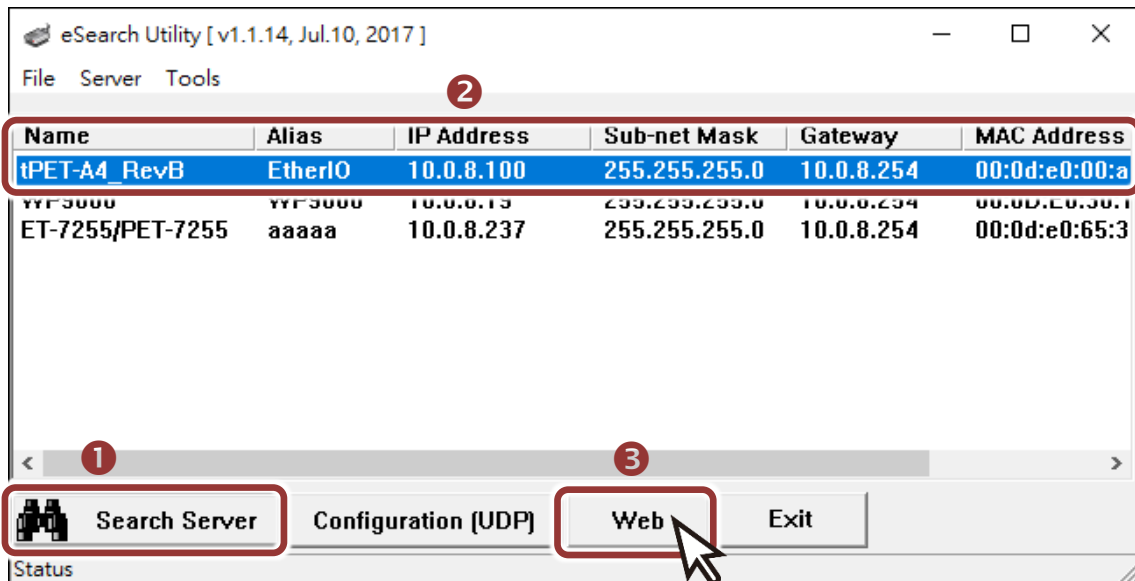**3)** Click the **"Web"** button to log in to the web configuration pages.
(Or enter the URL address of the tET/tPET- A4 in the address bar of the browser.)

Name	Alias	IP Address	Sub-net Mask	Gateway	MAC Address
tPET-A4_RevB	EtherIO	10.0.8.100	255.255.255.0	10.0.8.254	00:0d:e0:00:a
WP3000	WP3000	10.0.8.19	255.255.255.0	10.0.8.254	00:0D:E0:30:1
ET-7255/PET-7255	aaaaa	10.0.8.237	255.255.255.0	10.0.8.254	00:0d:e0:65:3

Search Server   Configuration (UDP)   Web   Exit

Note that if you intend to use Internet Explorer, ensure that the cache function is disabled in order to prevent browser access errors, please disable your Internet Explorer cache as follow: **(If you are not using IE browser, please skip this step.)**

Step1: Click **"Tools"** >> **"Internet Options…"** in the menu items.

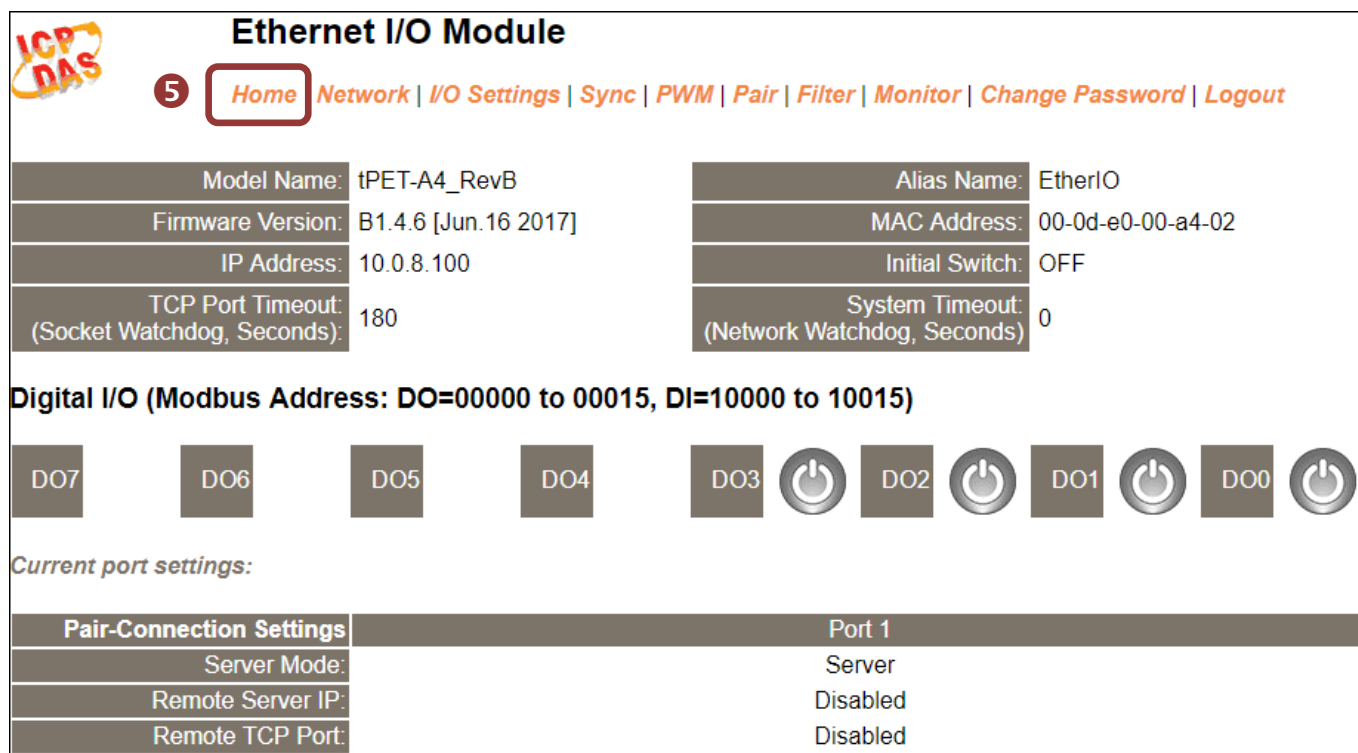Step 2: Click **"General"** tab and click the **"Settings…"** button in Temporary Internet files frame.

Step3: Click **"Every visit to the page"** and click the **"OK"** in Settings box and Internet Options box.

For more detail, refer to "FAQ: How to avoid a browser access error that causes a blank page to be displayed when using Internet Explorer"

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4) Enter the password in the "login password" field and click **"Submit"**.

Ethernet I/O Module

Home | Network | I/O Settings | Sync | PWM | Pair | Filter | M

Use the default
password: **Admin**

The system is logged o
To enter the web configur   the following field.

Login password: •••••   ④   Submit
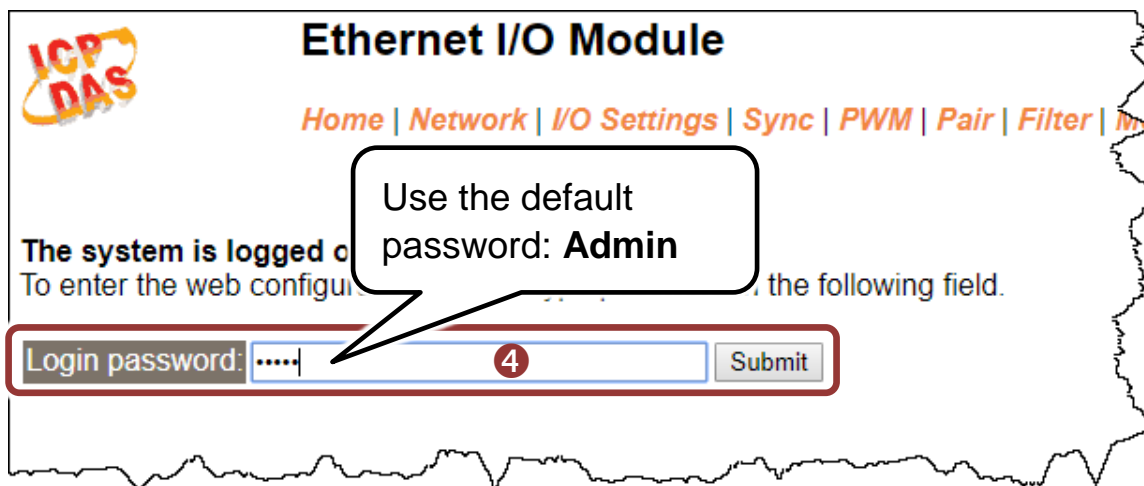
5) In the **"Home" page** page allows a simple test to be performed to verify the Digital Output functionality.

Ethernet I/O Module

⑤ Home | Network | I/O Settings | Sync | PWM | Pair | Filter | Monitor | Change Password | Logout

Model Name:	tPET-A4_RevB	Alias Name:	EtherIO
Firmware Version:	B1.4.6 [Jun.16 2017]	MAC Address:	00-0d-e0-00-a4-02
IP Address:	10.0.8.100	Initial Switch:	OFF
TCP Port Timeout: (Socket Watchdog, Seconds):	180	System Timeout: (Network Watchdog, Seconds)	0

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

DO7	DO6	DO5	DO4	DO3 ⏻	DO2 ⏻	DO1 ⏻	DO0 ⏻

Current port settings:

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

Technical support: service@icpdas.com

6) In the **"Digital I/O"** section, click the **"DO0"** button to **ON (Red)**.

7) Check DO0 (Pin07) of **output LED state for high**.