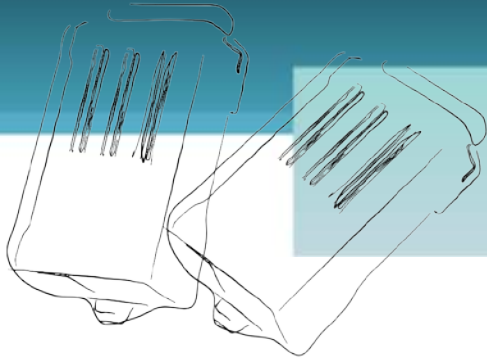


# tET/tPET SERIES QUICK START GUIDE



*For tET-P2C2/tPET-P2C2*

English/ April 2012/ Version 1.0

## 1 What's in the shipping package?

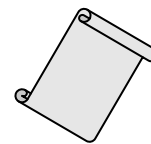
The package includes the following items:



**tET-P2C2 or  
tPET-P2C2**



**Software CD**



**Quick Start Guide**  
(This Document)

## 2 Preparations for devices

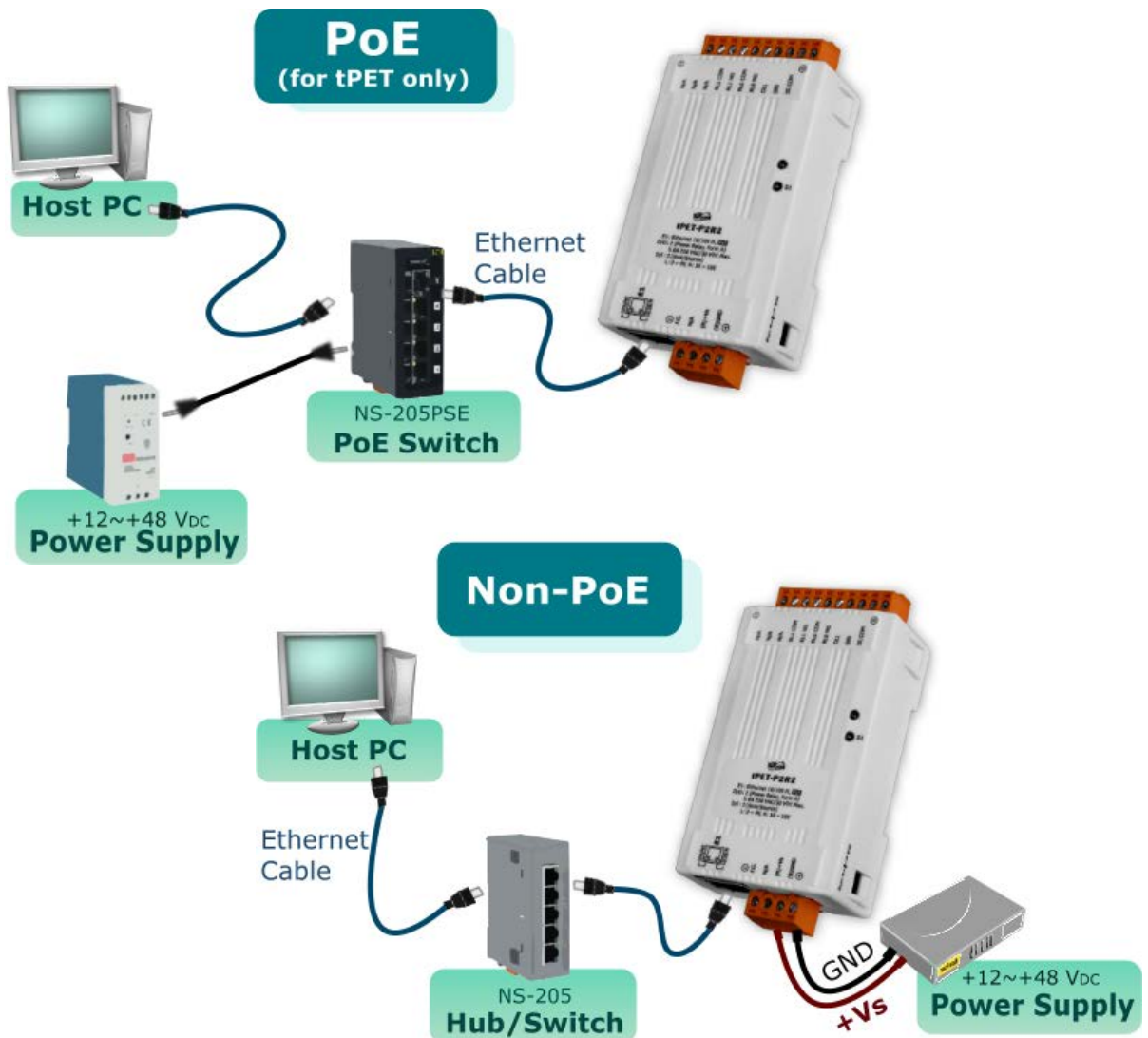
1. Power Supply: **+12 ~ +48 V<sub>DC</sub>**
2. Ethernet Hub. (PoE Ethernet Switch for tPET module only)
3. Make sure your PC has workable network settings.
4. Disable or well configure your Windows firewall and Anti-Virus firewall first, else the "**Search Servers**" on page 5 may not work. (Please contact with your system Administrator)

# 3 Connecting the Power and Host PC

1. Check Init/Run switch is on "RUN" position.



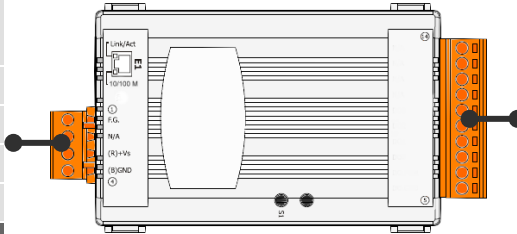
2. Connect both the tET/tPET-P2C2 and your computer to the same sub network or the same Ethernet Switch, and power tET/tPET-P2C2 on.



# 4 Pin Assignments and Wiring Note

## Pin Assignments

| Terminal No. | Pin Assignment       |
|--------------|----------------------|
| E1           | Link/Act<br>10/100 M |
| 01           | F.G.                 |
| 02           | N/A                  |
| 03           | (R) +Vs              |
| 04           | (B) GND              |



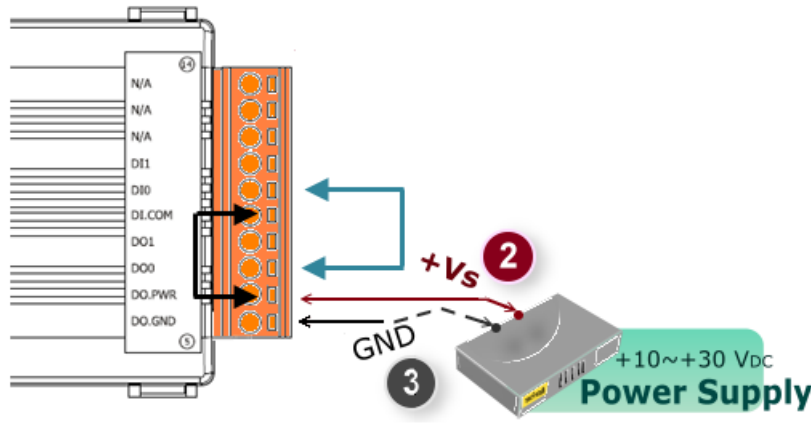
| Terminal No. | Pin Assignment |
|--------------|----------------|
| 14           | N/A            |
| 13           | N/A            |
| 12           | N/A            |
| 11           | DI1            |
| 10           | DI0            |
| 09           | DI.COM         |
| 08           | DO1            |
| 07           | DO0            |
| 06           | DO.PWR         |
| 05           | DO.GND         |

## Digital Input/Output Wiring

| Digital Input | Readback as 1                   | Readback as 0                       |
|---------------|---------------------------------|-------------------------------------|
| Sink          | <p>+10 ~ +50 V<sub>DC</sub></p> | <p>OPEN or &lt;4 V<sub>DC</sub></p> |
|               | Source                          | <p>+10 ~ +50 V<sub>DC</sub></p>     |

| Output Type | Readback as 1   | Readback as 0    |
|-------------|-----------------|------------------|
| Drive Relay | <p>Relay ON</p> | <p>Relay Off</p> |
|             | Resistance Load |                  |

- Wire the DI and DO for self test. The wiring as follows:
  1. Connect the **DOO** and **DI0**. ( Pin07 connect to Pin10)
  2. Connect the **DO.PWR** and **DI.COM**. ( Pin06 connect to Pin09)
  3. Supply the **External Power +10V** to **DO.PWR**. (External +10V connect to Pin06 )
  4. Supply the **External Power GND** to **DO.GND**. (External GND connect to Pin05)



■ DI/DO Modbus Address

(1xxxx) DI address:

| Begin address | Points | Description                   | Bits per Point | Range               | Access Type |
|---------------|--------|-------------------------------|----------------|---------------------|-------------|
| 0<br>(0x0)    | 1~2    | Digital Input                 | 1              | 0: Off<br>1: On     | R           |
| 32<br>(0x20)  | 1~2    | Digital latched status (high) | 1              | 0: no<br>1: latched | R           |
| 64<br>(0x40)  | 1~2    | Digital latched status (low)  | 1              | 0: no<br>1: latched | R           |

(0xxxx) DO address:

| Begin address  | Points | Description                        | Bits per Point | Range           | Access Type |
|----------------|--------|------------------------------------|----------------|-----------------|-------------|
| 0<br>(0x0)     | 1~2    | Digital Output                     | 1              | 0: Off<br>1: On | R/W         |
| 32<br>(0x20)   | 1      | Clear all DI latched status (high) | 1              | 1: Clear        | W           |
| 33<br>(0x21)   | 1      | Clear all DI latched status (low)  | 1              | 1: Clear        | W           |
| .              | .      | .                                  | .              | .               | .           |
| 235<br>(0xEB)  | 1~2    | Power-on value for DO              | 1              | 0=Off<br>1=On   | R/W/F       |
| 267<br>(0x10B) | 1~2    | safe value for DO                  | 1              | 0=Off<br>1=On   | R/W/F       |

For detail "DI/DO Modbus Address" information, please refer to section **5.3 Modbus Register Map** of user's manual. CD:\NAPDOS\tPET\Document\  
<http://ftp.icpdas.com/pub/cd/tinymodules/napdos/tPET/document/>

# 5

## Configuring Ethernet Settings

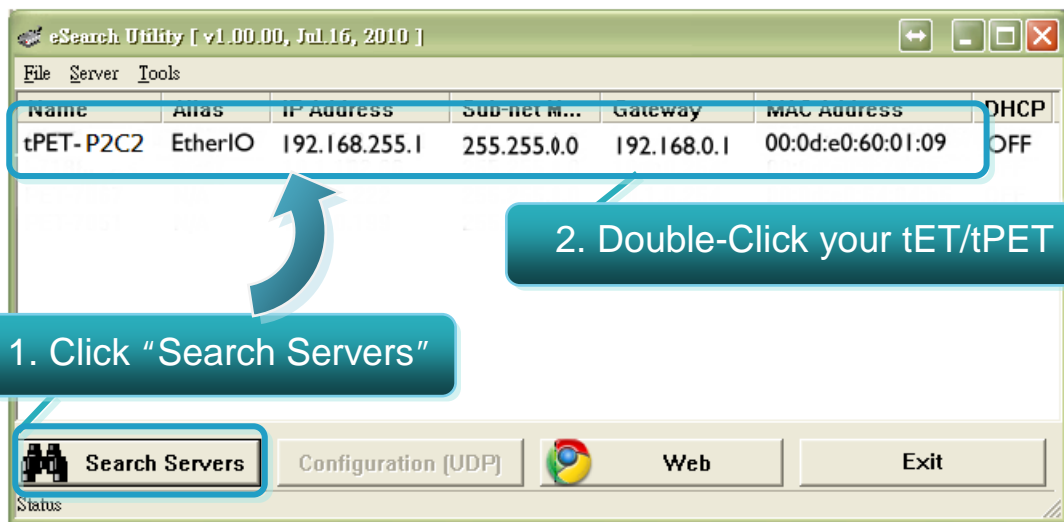
1. Run the eSearch Utility.

The eSearch Utility is located at:  
CD:\Napdos\Software\eSearch\

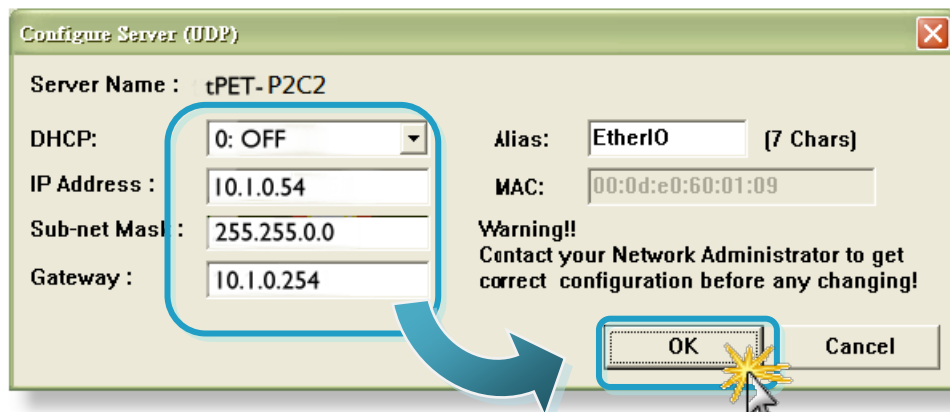
<http://ftp.icpdas.com/pub/cd/tinymodules/napdos/software/esearch/>



2. Click "Search Servers" button to search your tET/tPET-P2C2.
3. Double-Click your tET/tPET-P2C2 to configure the settings.



4. Contact your Network Administrator to get correct network configuration. Modify the network settings and then click "OK" button. The tET/tPET-P2C2 will restart it-self immediately.



# 6 Testing your tET/tPET Module

1. Wait 2 seconds and then click the “**Search Servers**” button again to ensure the tET/tPET-P2C2 is working well with new configuration.
2. Click the “**Web**” button to link the tET/tPET-P2C2 web server.

The image shows two screenshots. The top screenshot is from the 'eSearch Utility' application, displaying a table of network devices. A blue box highlights the first row, and a callout bubble points to it with the text '1. Click your tET/tPET on the list'. The bottom screenshot is from a web browser showing the 'tPET / tET Series' configuration page. A blue box highlights the 'Web' button in the navigation bar, with a callout bubble pointing to it and the text '2. Click'. Below the navigation bar, there is a login section with the text 'The system is logged out. To enter the web configuration, please type password in the following field.' and a 'Login password:' field with a 'Submit' button.

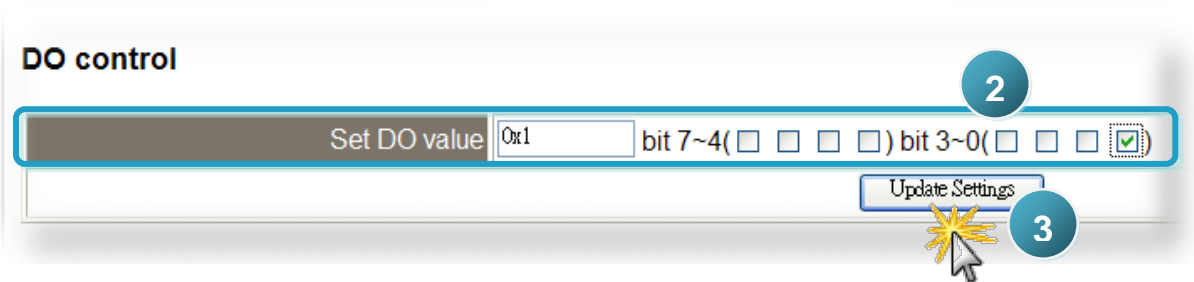
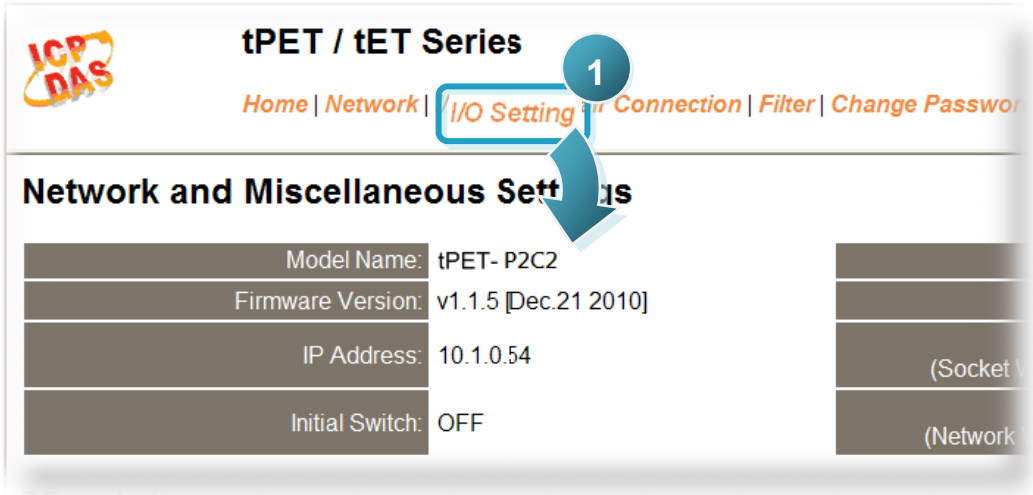
| Name     | Alias   | IP Address | Sub-net M... | Gateway    | MAC Address       | DHCP |
|----------|---------|------------|--------------|------------|-------------------|------|
| tET-P2C2 | EtherIO | 10.1.0.54  | 255.255.0.0  | 10.1.0.254 | 00:0d:e0:60:01:09 | ON   |

3. Enter the password and click the “**Submit**” button to enter the configuration web page. (The factory default password: **Admin**)

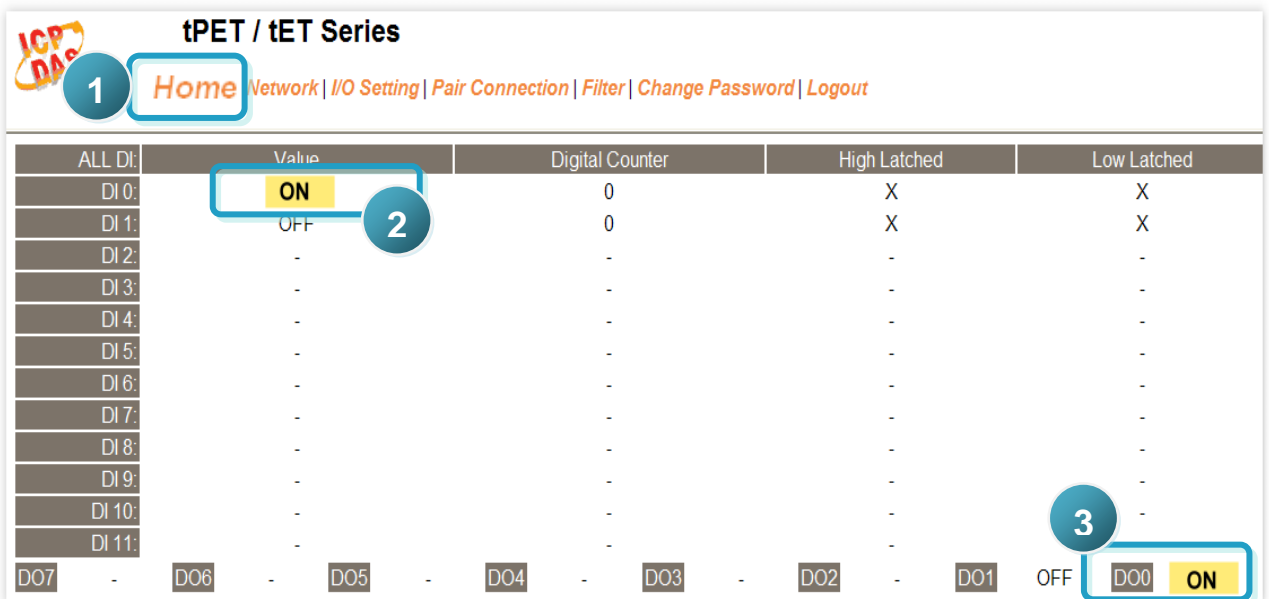
The image shows a close-up of the 'tPET / tET Series' web interface. The page title is 'tPET / tET Series' and there are navigation links: 'Home | Network | I/O Setting | Pair Connection | Filter'. Below this, it says 'The system is logged out. To enter the web configuration, please type password in the following field.' There is a 'Login password:' field with a masked password '.....' and a 'Submit' button. A mouse cursor is pointing at the 'Submit' button.

4. Control the I/O for simple test.

- In the **I/O Setting** page, check the **"bit0"** checkbox for setting **ON** to **DO0** and click **"Update Settings"** button.



- In the **Home** page, check that the **DO0** and **DIO** status should show current status are **"ON"**.





## Related Information

- **tET-P2C2/tPET-P2C2 Series Product Page:**  
[http://www.icpdas.com/products/Remote\\_IO/petl-7000/tpet-pxc2a2.htm](http://www.icpdas.com/products/Remote_IO/petl-7000/tpet-pxc2a2.htm)
  
- **tET/tPET Series Documentations:**  
CD:\Napdos\tPET\document\  
<http://ftp.icpdas.com/pub/cd/tinymodules/napdos/tPET/document/>
  
- **tET/tPET Series Firmware:**  
CD:\Napdos\tPET\firmware\  
<http://ftp.icpdas.com/pub/cd/tinymodules/napdos/tPET/firmware/>
  
- **NS-205, NS-205PES Product Page (optional):**  
<http://www.icpdas.com/products/Switch/industrial/ns-205.htm>  
<http://www.icpdas.com/products/Switch/industrial/ns-205pse.htm>