Making Data Acquisition Easy

# *tET/tPET-P6*
# *6 Digital Input channels Tiny Ethernet module*
Quick Start Guide

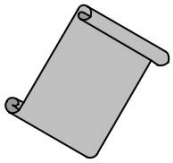
Product Website:
https://www.icpdas-usa.com/tet_p6

## 1. What's in the shipping package?

The package includes the following items:

**tET / tPET-P6**


**Software CD**



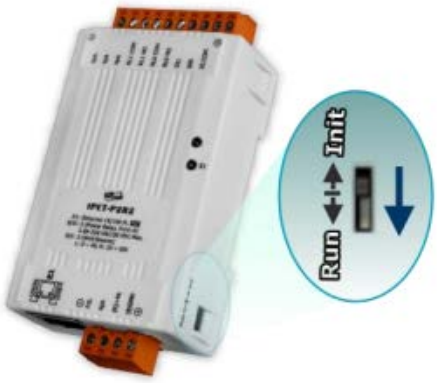
**Quick Start**
(This Document)

## 2. Preparations for devices

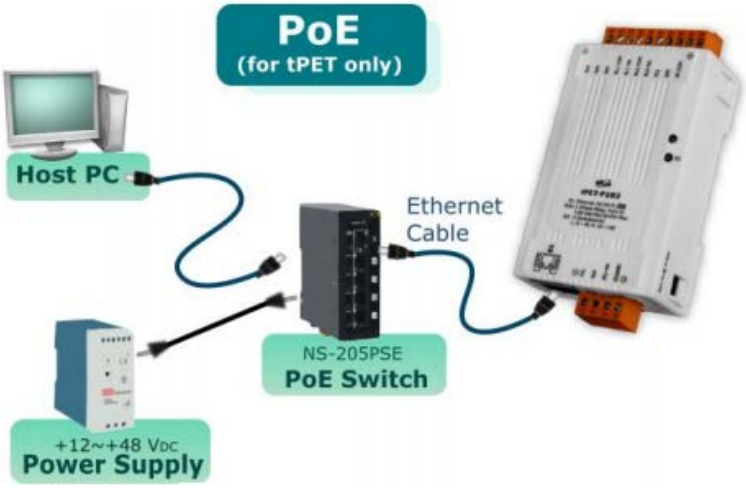
1. Power Supply: **+12 ~ +48 VDC**
2. Ethernet Hub.(PoE Ethernet Switch for tPET module only)
3. Make sure your PC has workable network settings.
4. Disable or well configure your Windows firewall and Anti-Virus firewall first, else the **"Search Servers"** on page 6 may not work. (Please contact with your system Administrator)

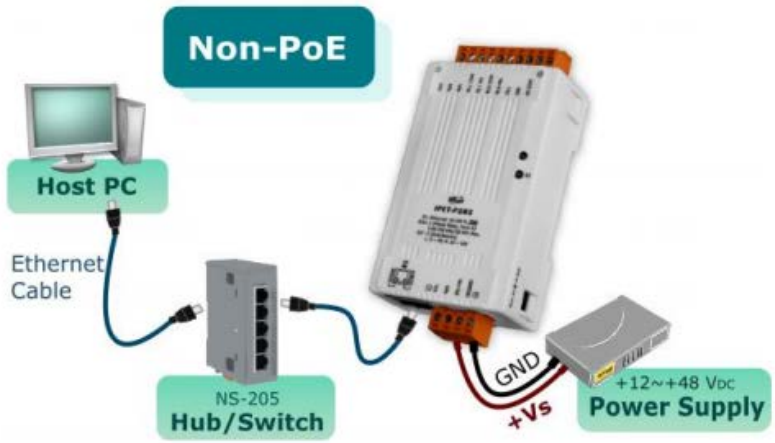
# 3. Connecting the Power and Host PC

1. Check Init/Run Switch is on “**RUN”** position.




2. Connect both the tET/tPET-P(D)6 and your computer to the same sub network or the same Ethernet Switch, and power tET/tPET-P(D)6 on.

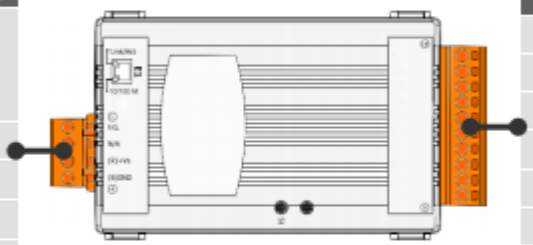


# 4. Pin Assignments and Wiring Note

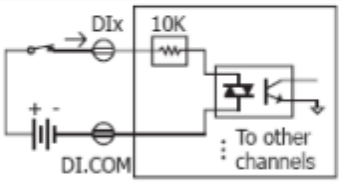
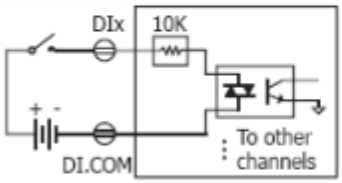
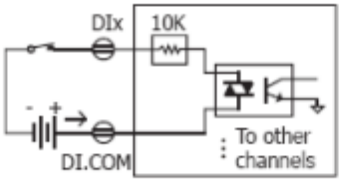
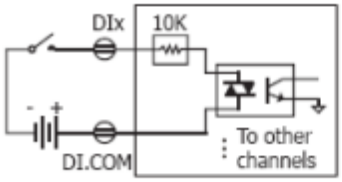
## Pin Assignments of the tET/tPET-P(D)6:

| Terminal No. | Pin Assignment |
|---|---|
| E1 | Link/Act, 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 | DI5 |
| 10 | DI4 |
| 09 | DI3 |
| 08 | DI2 |
| 07 | DI1 |
| 06 | DI0 |
| 05 | DI.COM |

## Digital Input Wiring of the tET/tPET-P6:

| Digital Input | Readback as 1 | Readback as 0 |
|---|---|---|
| Sink | +10 ~ +50 VDC | OPEN or <4 VDC |
| |  |  |
| Source | +10 ~ +50 VDC | OPEN or <4 VDC |
| |  |  |



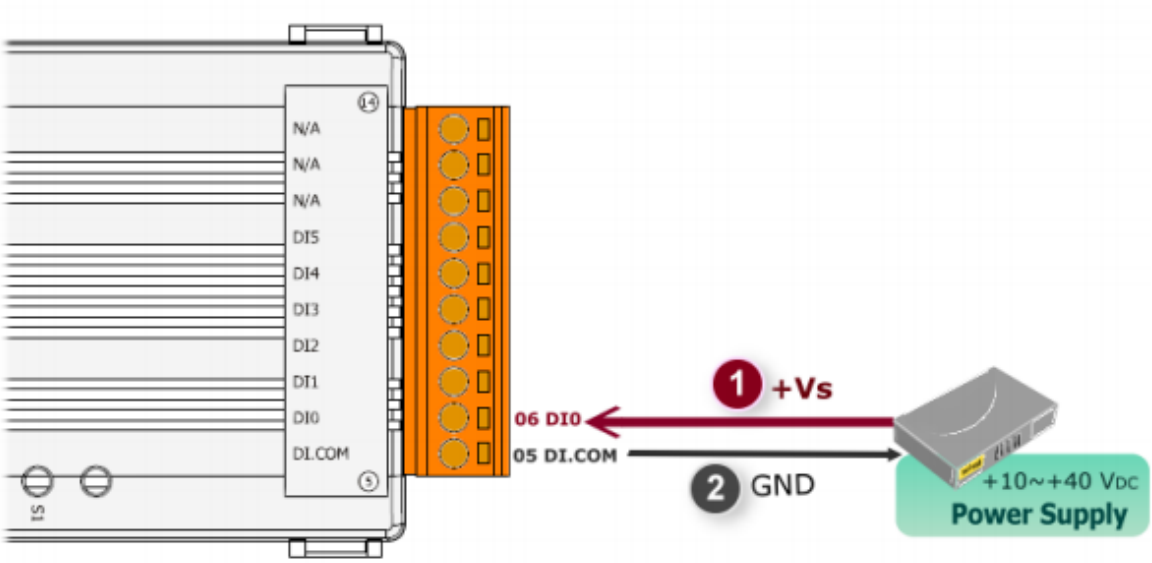
## Digital Input Wiring of the tET/tPET-PD6:

| Input Type | Readback as 0 | Readback as 1 |
|---|---|---|
| Dry Contact | Relay Off | Relay On |
| |  |  |

- Wire the DI for self-test. The wiring as follows:

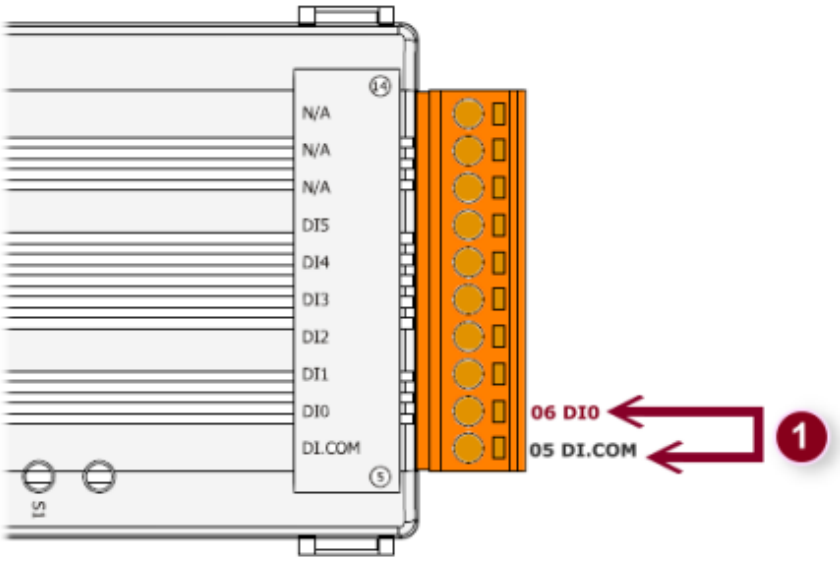
## *tET/tPET-P6*

1. Supply the **External Power +10V** to **DI0.** (External +10V connect to Pin06 )
2. Supply the **External Power GND** to **DI.COM.** (External GND connect to Pin05)




## *tET/tPET-PD6*

1. Connect the **DI0** and **DI.COM.** (Pin06 connect to Pin05)



## DI/DO Modbus Address:

(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 |

(0xxxx) DO address:

| Begin address | Points | Description | Bits per Point | Range | Access Type |
|---|---|---|---|---|---|
| 32 (0x20) | 1 | Clear all DI latched status (high) | 1 | 1: Clear | W |
| 33 (0x21) | 1 | Clear all DI latched status (low) | 1 | 1: Clear | W |
| 150 (0x96) | 1 | Enable All DI latched status (high/low) | 1 | 0:Disable 1:Enable | R/W/F |
| 151 (0x97) | 1~6 | Enable high speed digital counter | 1 | 0:Disable 1:Enable | R/W/F |
| . . | . . | . . | . . | . . | . . |
| 32 (0x20) | 1 | Clear all DI latched status (high) | 1 | 1: Clear | W |

- For detail "DI/DO Modbus Address" information, please refer to section **6.3 Modbus Register Map** of user's manual in CD:\NAPDOS\tPET\Document\

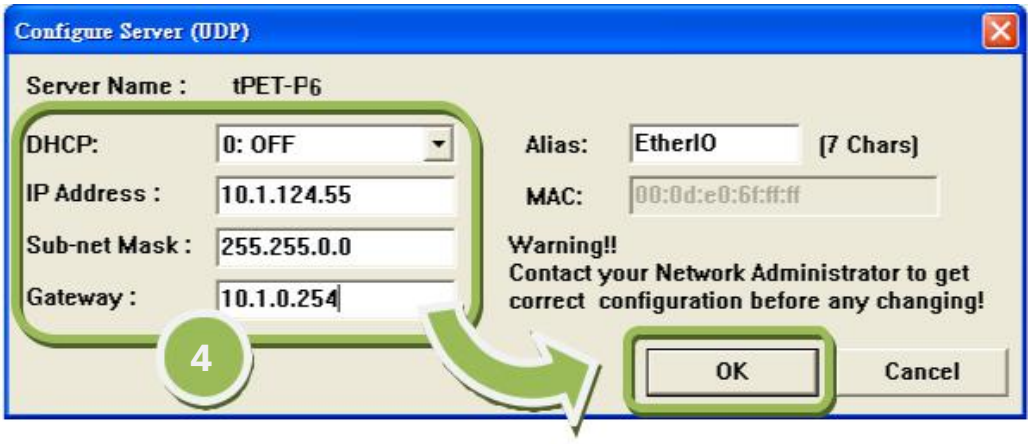
# 5. Configuring Ethernet Settings

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-P(D)6.
3. Double-Click your tET/tPET-P6 to configure the settings.

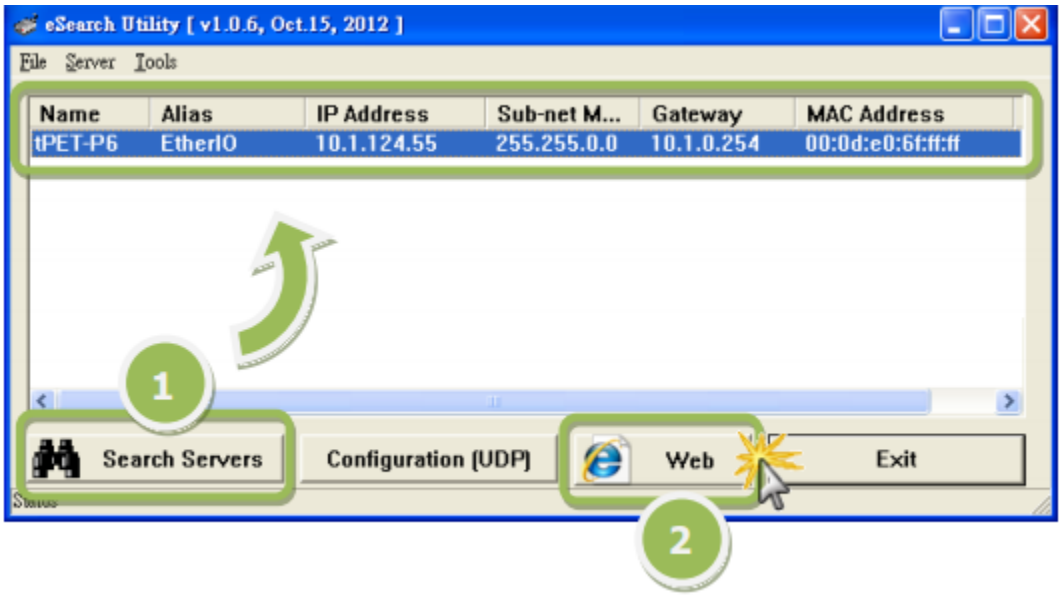

4. Contact your Network Administrator to get correct network configuration. Modify the network settings and then click **"OK"** button. The tET/tPET-P6 will restart it-self immediately.



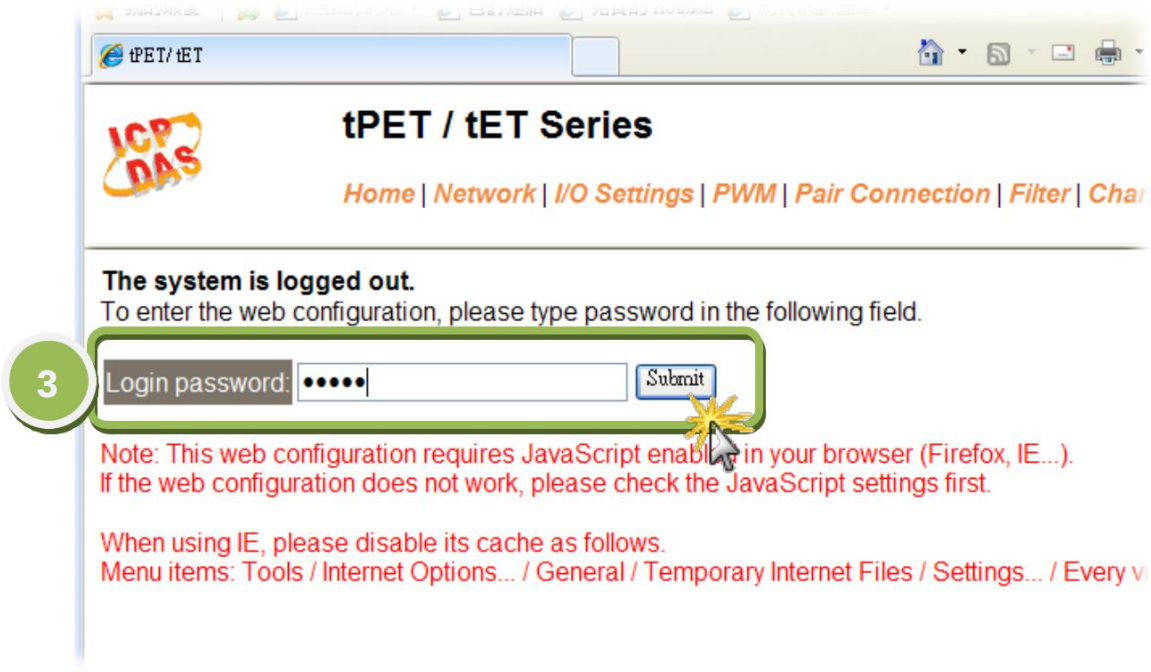
# 6. Testing your tET / tPET Module

1. Wait 2 seconds and then click the "**Search Servers**" button again to ensure the tET/tPET-P6 is working well with new configuration.

2. Click the "**Web**" button to link the tET/tPET-P6 web server.




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



4. Control the I/O for simple test.

**Step 1: Open the power supply as DI0 input.**

**Step 2: In the "Home" page, check that the "DI0" status should show current status is "ON".**