

tET-P(D)6/tPET-P(D)6 Quick Start

v1.2, Feb. 2018

What's in the box?



Related Information

• tET-P6/tPET-P6/tET-PD6/tPET-PD6 Series Product Page:

http://www.icpdas.com/root/product/solutions/remote_io/ethernet_io/petl-7000_tpet_t et/tet-p6.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

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-P(D)6 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-P(D)6.



Technical support: service@icpdas.com

2 Pin Assignments & Wiring Note



| Terminal No. | Pin Assignment |
|-----------------|-------------------|
| 14 | N/A |
| 13 | N/A |
| 12 | N/A |
| 11 | DI5 |
| 10 | DI4 |
| 09 | DI3 |
| 08 | DI2 |
| 07 | DI1 |
| 06 | DIO |
| 05 | DI.COM |

Digital Input Wiring of the tET/tPET-P6:

| Digital Input | Readback as 1 | Readback as 0 | | |
|---------------|--------------------------|--------------------------|--|--|
| | +10 ~ +50 VDC | OPEN or <4 VDC | | |
| Sink | DIx 10K + - DI.COM | DIx 10K + - DI.COM | | |
| | +10 ~ +50 Vdc | OPEN or <4 VDC | | |
| Source | DIx 10K | DIx 10K | | |

> Digital Input Wiring of the **tET/tPET-PD6**:



3 Wire the DI for Self-test

- > tET/tPET-P6:
 - 1) Supply the External Power +24V to DIO. (External +10V connect to Pin06)
 - Supply the <u>External Power GND</u> to <u>DI.COM</u>. (External GND connect to <u>Pin05</u>)



tET/tPET-PD6:

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





> (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:

| | Description | Per | Kange | Access Type |
|-----|---|---|---|---|
| | | Point | | |
| 1 | Clear all DI latched status (high) | 1 | 1: Clear | W |
| 1 | Clear all DI latched status (low) | 1 | 1: Clear | W |
| 1 | Enable All DI latched status (high/low) | 1 | 0:Disable 1:Enable | R/W/F |
| 1~6 | Enable high speed digital counter | 1 | 0:Disable 1:Enable | R/W/F |
| | | • | | • |
| | 1 1 1~6 | 1Clear all DI latched status (high)1Clear all DI latched status (low)1Enable All DI latched status (high/low)1~6Enable high speed digital counter | Per Point1Clear all DI latched status (high)11Clear all DI latched status (low)11Clear all DI latched status (low)11Enable All DI latched status (high/low)11~6Enable high speed digital counter1 | Per PointPer Point1Clear all DI latched status (high)11: Clear1Clear all DI latched status (low)11: Clear1Clear all DI latched status (low)11: Clear1Enable All DI latched status (high/low)10:Disable 1:Enable1~6Enable high speed digital counter10:Disable 1:Enable |

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/tinymodules/napdos/tpet/document/</u>).

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

| 🥩 eSearch Utility [v1.1 | 1.14, Jul.10, 20 | 17] | | - | - 🗆 | × |
|--------------------------|------------------|-----------------------------|-----------------------------|------------------------|-------------------|------------------|
| File Server Tools | | 3 | | | | |
| Name tPET-PD6_RevB | 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 | ldress 0:00:d |
| ET-7255/PET-7255 | 88888 88888 | 10.0.8.237 | 255.255.255.0 | 10.0.8.254 | 00:0d:e | 0:65:3 |
| < 2 | | | | | | > |
| Search Server | Config | uration (UDP) | Web E | xit | | |

Factory Default Settings of tET/tPET-P(D)6:

| 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 tET/tPET-P(D)6 will use the new settings 2 seconds later.

| Configure Server (U | DP) | | | | | Х |
|---|---------------|----------------|---------------|-------|-------------------|---|
| Server Name : | tPET-PD6 RevB | 4 | | | | |
| DHCP: | 0: OFF 🗨 | Sub-net Mask : | 255.255.255.0 | lias: | EtherIO | _ |
| IP Address : | 10.0.8.100 | Gateway : | 10.0.8.254 | IAC: | 00:0d:e0:00:d6:10 | _ |
| Warning!! Contact your Network Administrator to get correct configuration before any changing! | | | | | | |

Technical support: service@icpdas.com

6 Testing your tET/tPET Module

- 1) Wait 2 seconds and click "Search Servers" button again to ensure the tET/tPET-P(D)6 is working well with new configuration.
- 2) Click the name of tET/tPET-P(D)6 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-P(D)6 in the address bar of the browser.)

| 🥩 eSearch Utility [v1.1 | 1.14, Jul.10, 20 | 17] | | - | - 🗆 × |
|--------------------------|------------------|---------------|---------------|------------|---------------|
| File Server Tools | | 2 | | | |
| Nama | Alian | | Cub not Maak | Cataviau | MAC Address |
| Name | Allas | IP Auuress | SUD-ITEL MASK | Galeway | MAC AUURESS |
| tPET-PD6_RevB | EtherIO | 10.0.8.100 | 255.255.255.0 | 10.0.8.254 | 00:0d:e0:00:d |
| YYPSUUU | WH3000 | 10.0.8.19 | 255.255.255.0 | 10.0.0.254 | UU:UD:EU:30:1 |
| ET-7255/PET-7255 | aaaaa | 10.0.8.237 | 255.255.255.0 | 10.0.8.254 | 00:0d:e0:65:3 |
| | | | 8 | | |
| | _ | | | | > |
| Search Server | r Config | uration (VDP) | Web | İxit | |
| Status | | | W | | |

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.)

<u>Step1:</u> Click "**Tools**" >> "**Internet Options...**" in the menu items.

<u>Step 2:</u> Click "**General**" tab and click the "**Settings**..." button in Temporary Internet files frame.

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

For more detail, refer to <u>"FAQ: How to avoid a browser access error that causes a</u> blank page to be displayed when using Internet Explorer" 4) Enter the password in the "login password" field and click "Submit".



5) In the "Home" page, check that the "DIO" status should show current status is ON (Green).

