

ECAT-2610-DW Quick Start

v1.0, May 2019

What's in the box?

The package includes the following items:



ECAT-2610-DW Module x 1



Quick Start x1 (This Document)



CA-0915 Cable x1

Related Information

For detailed information about the how to configure and operation PM-3000 Series Power Meter, refer to **Chapter 3. "Getting Started"** in the User Manual. **Note that ECAT-2610-DW only supports PM-3033, PM-3133, PM-3114 and PM-3112 Series Smart Power Meter.** Here, the PM-3133 is used as an example.

- Documentation & Software:

http://ftp.icpdas.com/pub/cd/fieldbus_cd/ethercat/slave/ecat-2000/

- PM-3033/3133/3114/3112 Series Product Page (optional):

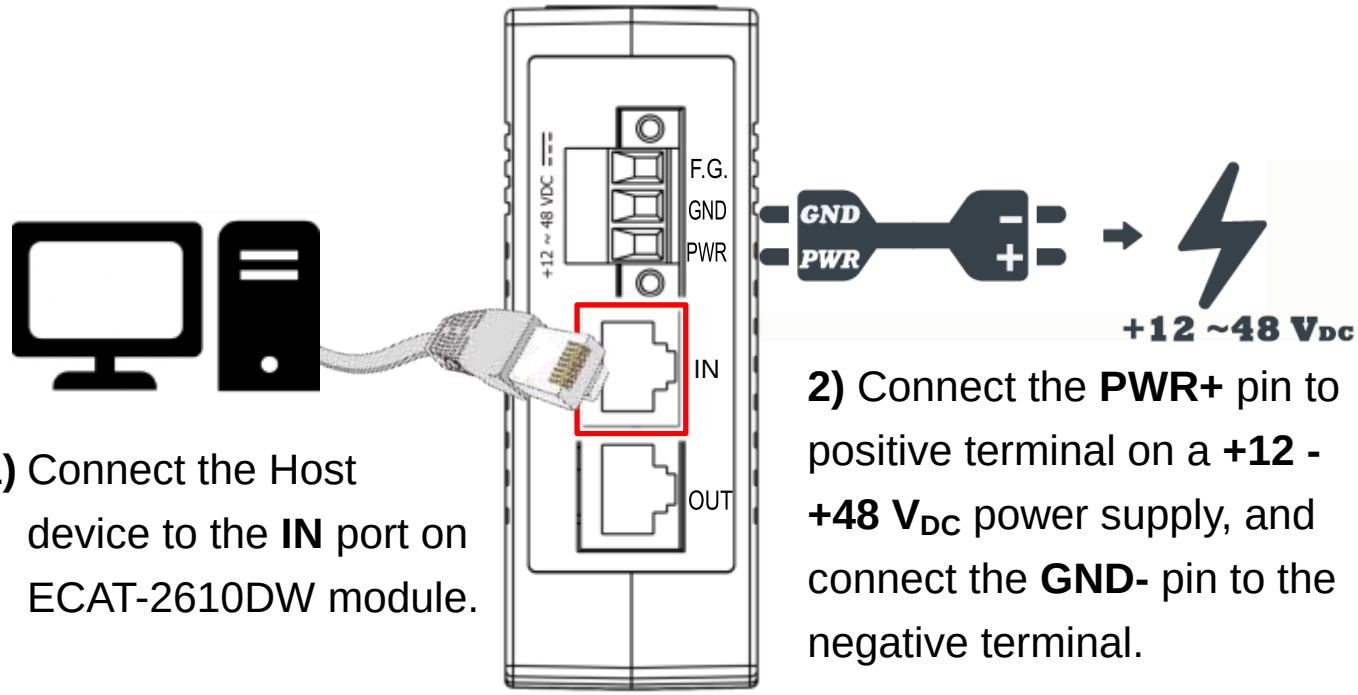
https://www.icpdas.com/root/product/solutions/intelligence_power_meter/intelligence_power_meter.html

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1 Connecting the Power and Host PC

Switch on module and connect it to an EtherCAT network

Top Panel



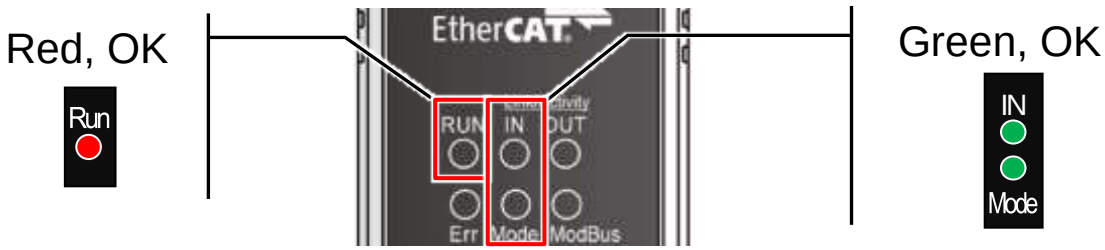
1) Connect the Host device to the **IN** port on ECAT-2610DW module.

2) Connect the **PWR+** pin to positive terminal on a **+12 - +48 V_{DC}** power supply, and connect the **GND-** pin to the negative terminal.

NOTE: Attaching an ESC directly to an office network will result in network flooding, since the ESC will reflect any frame – especially broadcast frames – back into the network (broadcast storm).

Verify that LEDs indicator

Front Panel



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2 Connecting the Power Meter

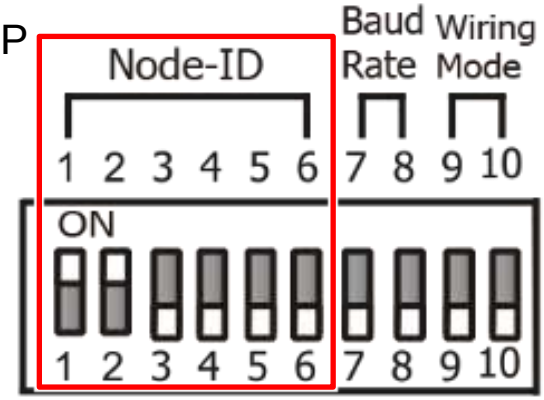
Prepare for device

☑ PM-3133 Series (optional) Power Meter

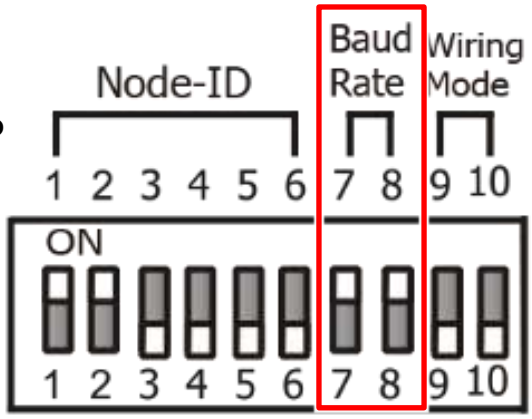
Connect the PM-3133 Power Meter to the ECAT-2610-DW

1) Setting PM-3133's Modbus RTU address, Baud Rate and Wiring Mode to match the command file of ECAT-2610-DW, as follows:

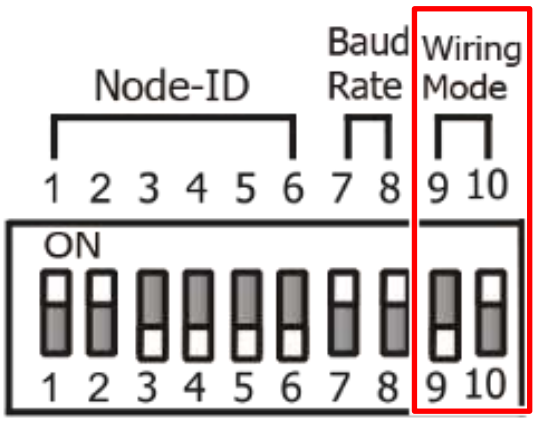
❶ Set the **Modbus address is 4** via DIP Switch 1 to 6, i.e. **ON, ON, OFF, OFF, OFF, OFF**.



❷ Set the **Baud Rate is 115200** via DIP Switch 7 to 8, i.e. **ON, ON**.



❸ Set the **Wiring Mode is 3P3W-3CT** via DIP Switch 9 to 10, i.e. **OFF, ON**.

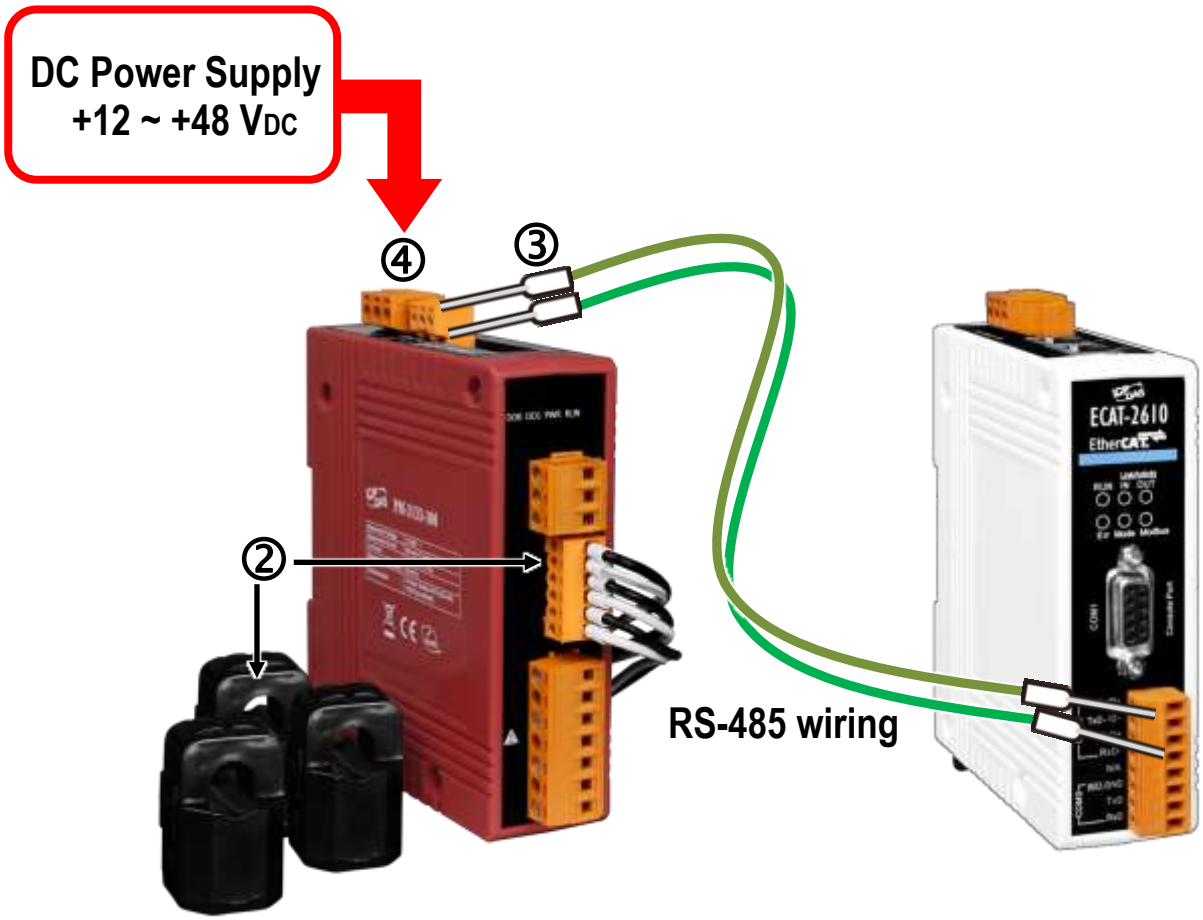


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2) Check the current input terminal and connect the CT's then close the CT chip.

3) Connect the PM-3133 using a RS-485 wiring to the COM2 on ECAT-2610-DW.

4) Supply power to the PM-3133 (+12 ~ +48 V_{DC} Power used).



NOTE: For detailed information regarding hardware configuration, CT's installation, power supply and wiring, etc. for the PM-3133 series, refer to Quick Start or User Manual (http://ftp.icpdas.com/pub/cd/powermeter/pm-3133/quickstartguide/

http://ftp.icpdas.com/pub/cd/powermeter/pm-3133/user'smanual/)

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3 Search Modules

ESI file

The latest ESI file (**ICPDAS ECAT-2610DW.xml**) can be downloaded from ICP DAS website at

http://ftp.icpdas.com/pub/cd/fieldbus_cd/ethercat/slave/ecat-2000/software/

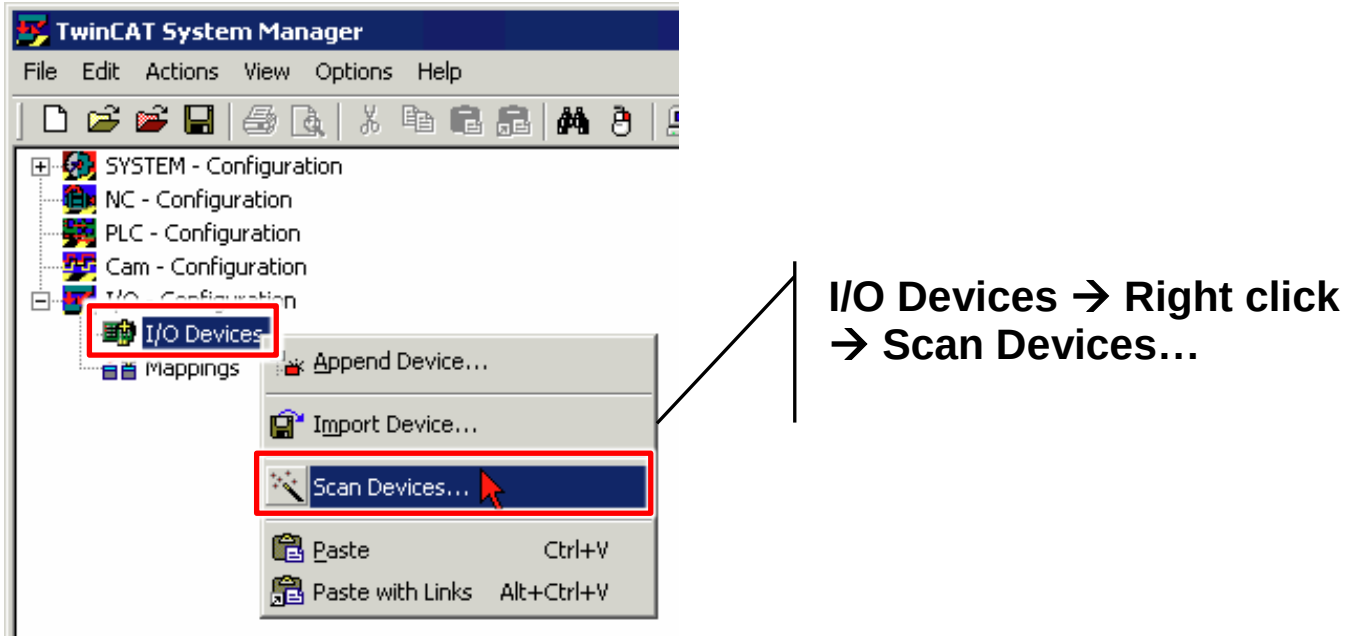
Install the ESI file

Copy the **"ICPDAS ECAT-2610DW.xml"** file to the Master Tools installation folder, as indicated in the table below.

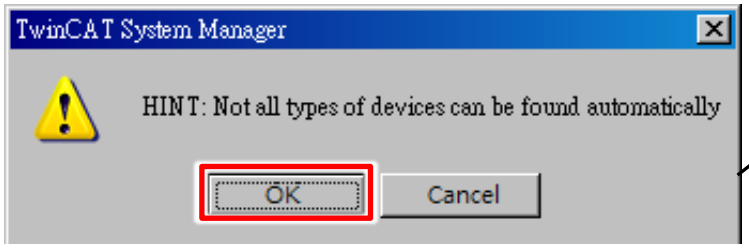
Software	Default Path
Beckhoff EtherCAT Configuration	C:\EtherCAT Configurator\EtherCAT
Beckhoff TwinCAT 3.X	C:\TwinCAT\3.x\Config\Io\EtherCAT
Beckhoff TwinCAT 2.X	C:\TwinCAT\Io\EtherCAT

Run the EtherCAT Master software (Beckhoff TwinCAT 2.X)

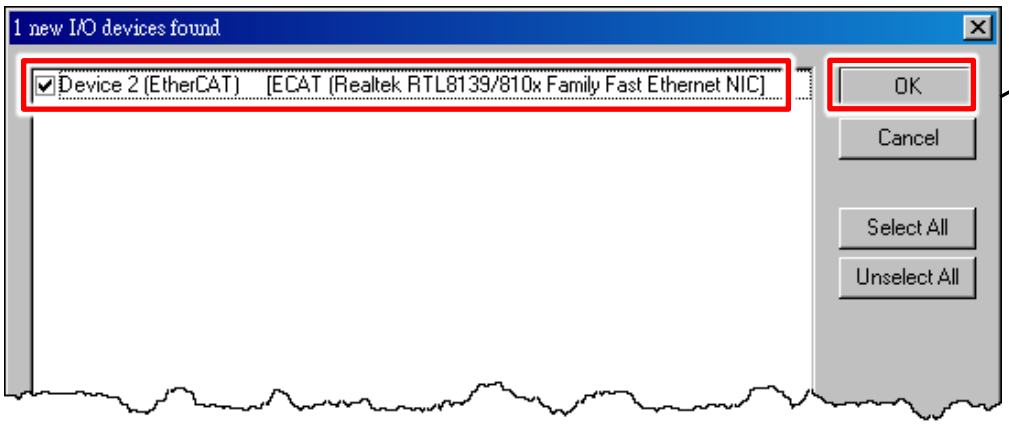
The EtherCAT system must be in a safe, de-energized state before the ECAT-2610-DW is connected to the EtherCAT network!
Switch on the operating power supply, launch the TwinCAT System Manager (Config mode), and scan in the devices, as below.



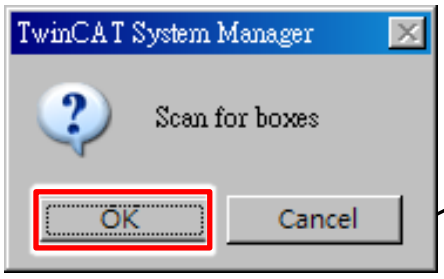
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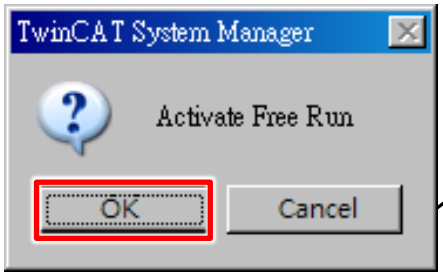
Click **“OK”** button



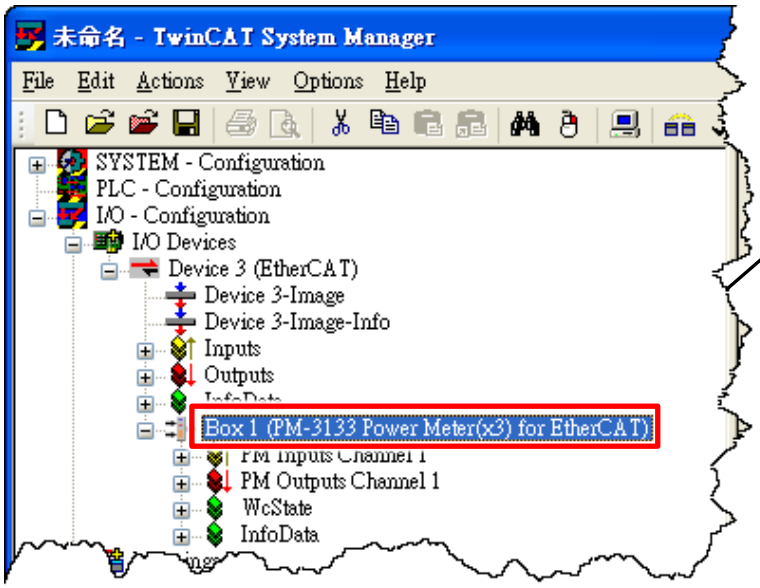
Choose the correct network device which is connected to ECAT-2610-DW, and click **“OK”** button



Click **“OK”** to start scanning



Click **“OK”** to activate the free run mode for TwinCAT system manager

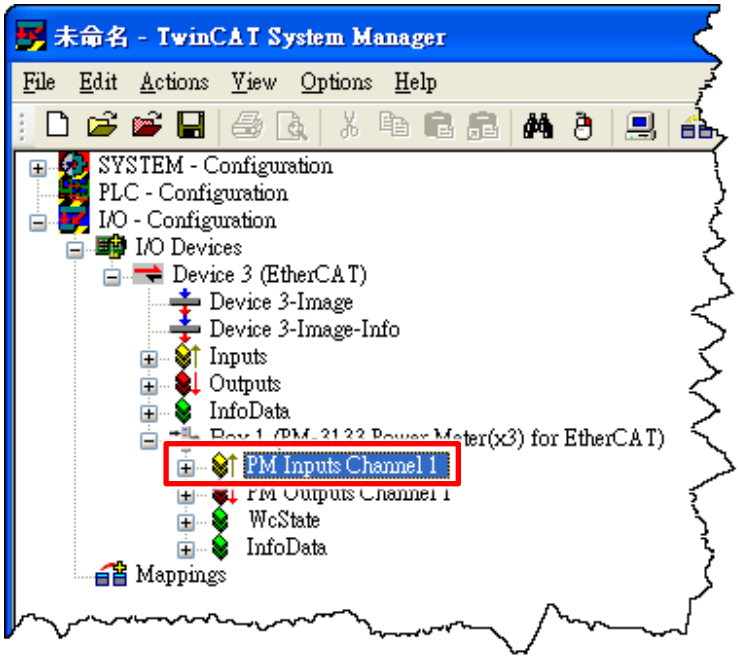


In the left-hand window, PM-3133 Power Meter(x3) is now shown in the TwinCAT System Manager that means the PM-3133 Power Meter (3 pcs) is connected on EtherCAT.

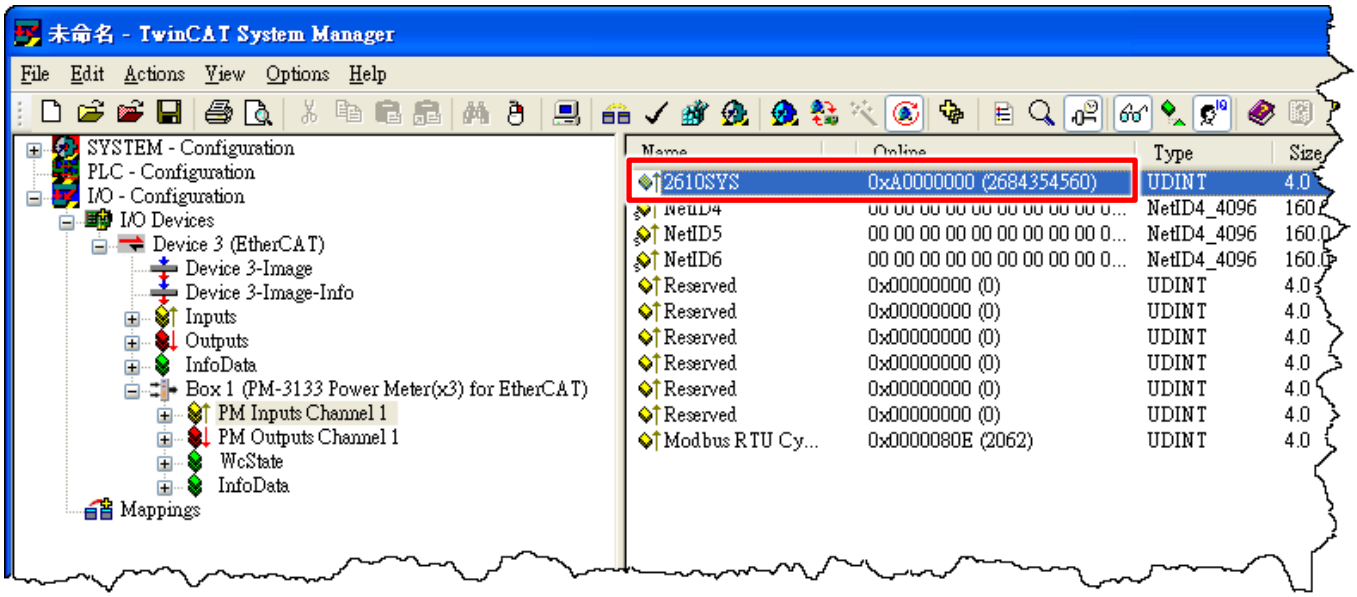
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4 Check Status

1) In the left-hand pane of the TwinCAT System Manager, click the entry for the EtherCAT device you wish to configure. Click the **“PM Inputs Channel 1”** entry in the right-hand pane to retrieve the current configuration settings.



2) In the right-hand window, check the **“2610SYS”** item is **“0xA0000000”** means the normal running of the ECAT-2610-DW module.



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