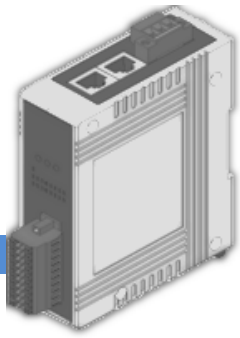


Quick Start
for ECAT-2024/2028

English /May 2017/ Ver 1.0

1 Shipping Package

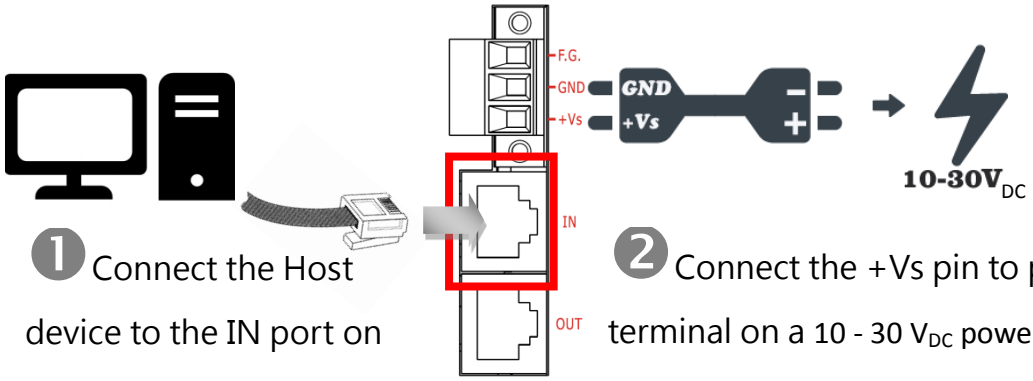
This shipping package contains the following items

1 x ECAT-2000 module

1 x Quick Start (This Document)

2 Connecting the Power and Host device

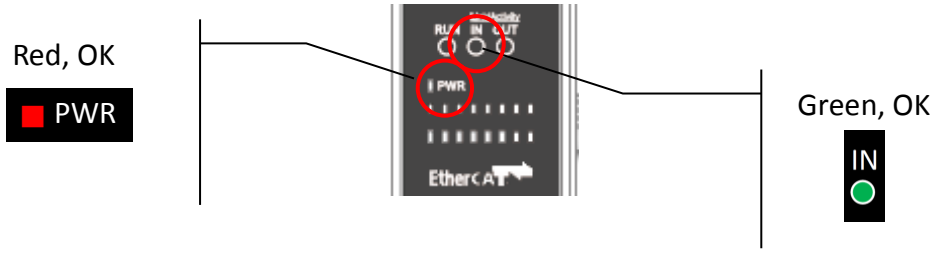
Switch on module and connect it to an EtherCAT network



❶ Connect the Host device to the IN port on ECAT-2000 module.

❷ Connect the +Vs pin to positive terminal on a 10 - 30 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).



 ✉ E-mail: service@icpdas.com

3 Search Modules

ESI file

The latest ESI file (ICPDAS ECAT-2000_AO.xml) can be downloaded from ICP DAS website at

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

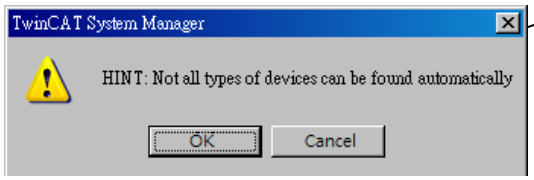
Install the ESI file

Copy the “ICPDAS ECAT-2000_AO.xml” file to the Master Tools installation folder, as indicated in the table below.

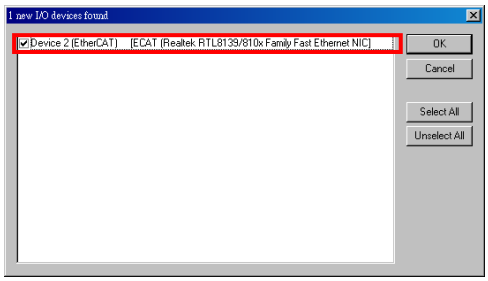
Software	Default Path
Beckhoff EtherCAT Configuration	C:\EtherCAT Configurator\EtherCAT
Beckhoff TwinCAT 3.X	C:\TwinCAT\3.x\Config\Io\EtherCAT
Beckhoff TwinCAT 2.X	C:\TwinCAT\Io\EtherCAT

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

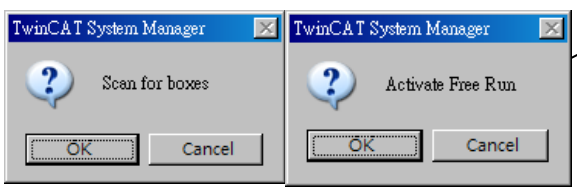
Switch on power
Execute the TwinCAT System Manager(Config mode)
I/O Devices -> **Right click** -> **Scan Devices…**



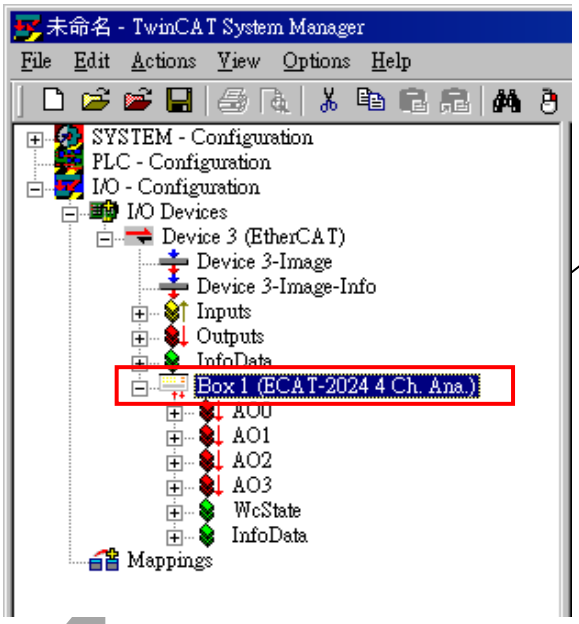
Click **OK**



Choose the correct network device which is connected to ECAT-2000



Click Yes to start scanning and click **Yes** to activate the free run mode for TwinCAT system manager

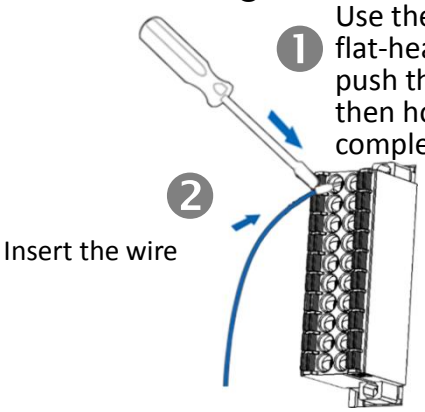


ECAT-2000 is now shown in the TwinCAT system Manager

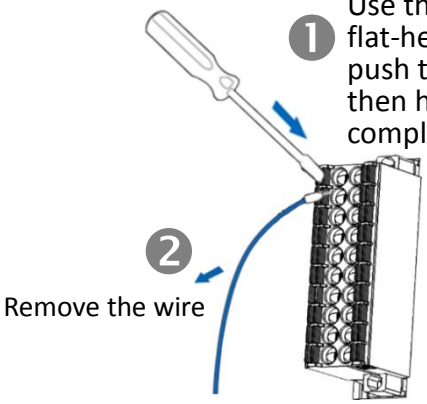
4 Wiring to the connector

Wiring Tip

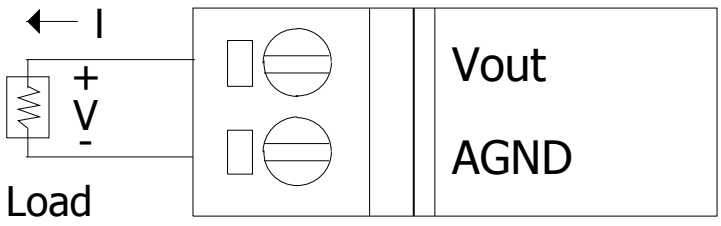
Connecting the wire



Removing the wire



Wire Diagrams

Model	Voltage Output
ECAT-2024 ECAT-2028	

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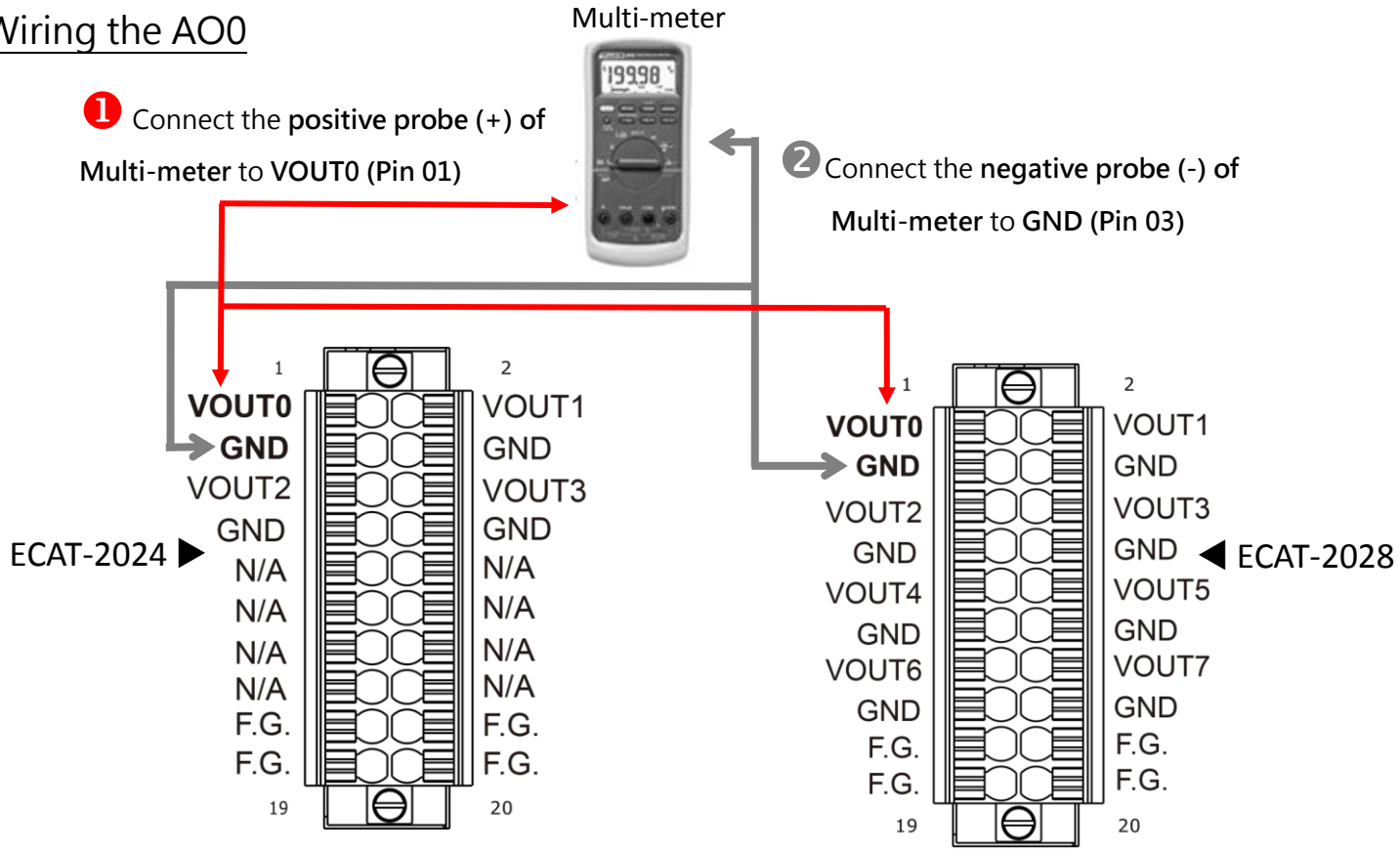
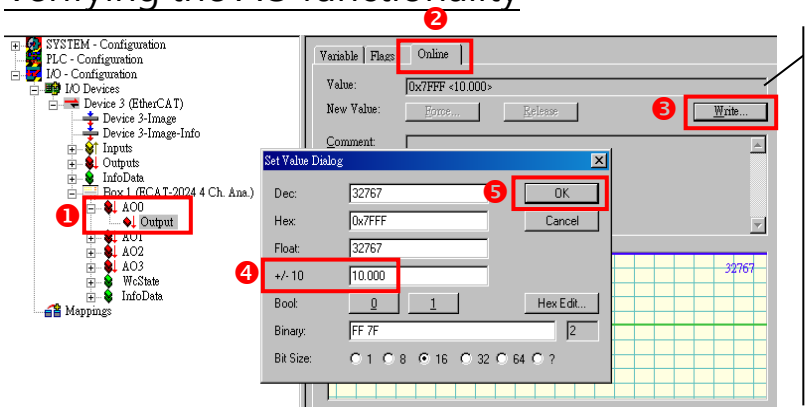
Wiring the AO0



Verifying the AO functionality



1. Click **AO0** and **Output** in the left-hand window.
2. Click **Online** in the right-hand window.
3. Click **Write**.
4. **Type the voltage value** (e.g., 10) in the +/-10 field.
5. Click **OK**.

Check the value on multi-meter they should be identical to the values set in program. **(The value read on meter may be a little difference from the DA value because of the resolution limit of meter or the measurement error.)**

Related Information

Product Page:
http://www.icpdas.com/root/product/solutions/industrial_communication/fieldbus/ethercat/io_module/ecat-2024.html
http://www.icpdas.com/root/product/solutions/industrial_communication/fieldbus/ethercat/io_module/ecat-2028.html
Documentation:
ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/ethercat/slave/ecat-2000/
ESI file:
http://ftp.icpdas.com/pub/cd/fieldbus_cd/ethercat/slave/ecat-2000/software/
DP-665(Optional) Product Page:
http://www.icpdas.com/products/Accessories/power_supply/dp-665.htm

 E-mail: service@icpdas.com