

Quick Start
for ECAT-2055-32

English / July.2016/ Ver 1.0

1 Shipping Package

This shipping package contains the following items

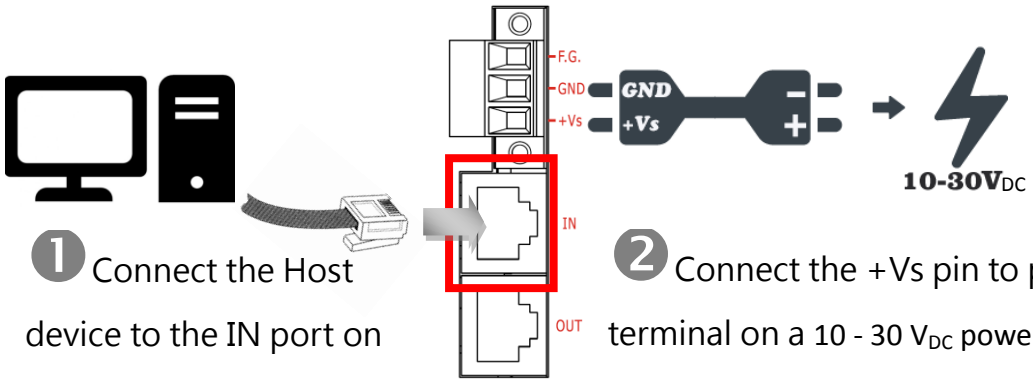
1 x ECAT-2000 module



1 x Quick Start Guide (This Document)

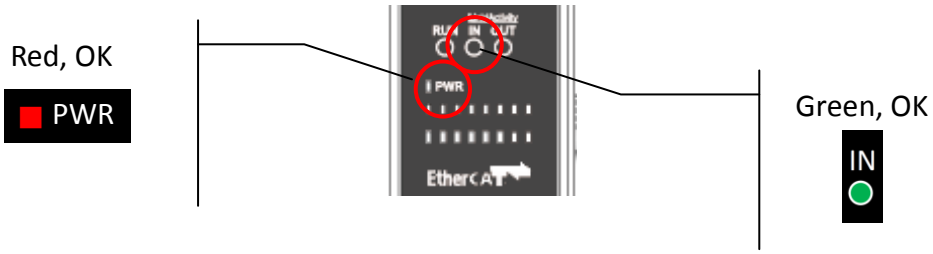
2 Connecting the Power and Host device

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.



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3 Search Modules

ESI file

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

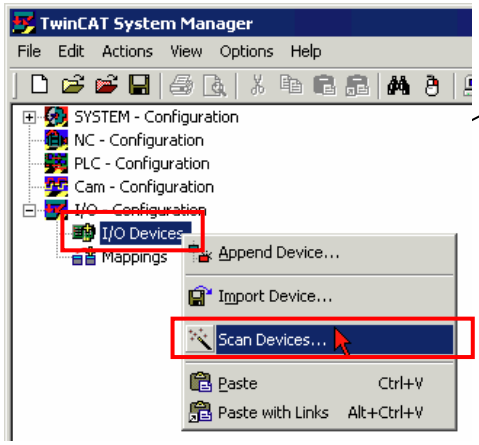
http://ftp.icpdas.com/pub/cd/fieldbus_cd/ethercat/slave/ecat-2000/software/

Install the ESI file

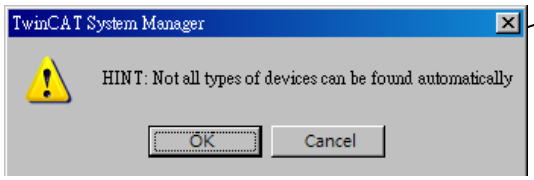
Copy the “ICPDAS ECAT-2000.xml” file to the Master Tools installation folder, as indicated in the table below.

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

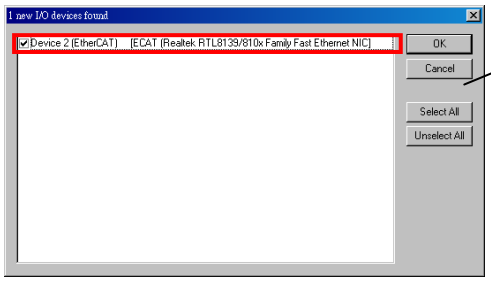
Run the EtherCAT Master software (Beckhoff TwinCAT 2.X)



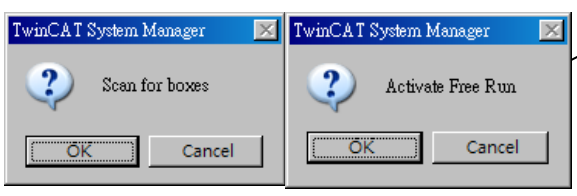
Switch on power
Execute the TwinCAT System Manager(Config mode)
I/O Devices-> Right click-> Scan Devices…



Click OK



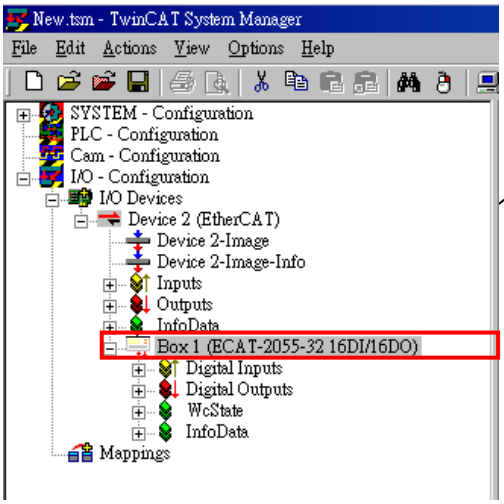
Choose the correct network device which is connected to ECAT-2000



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

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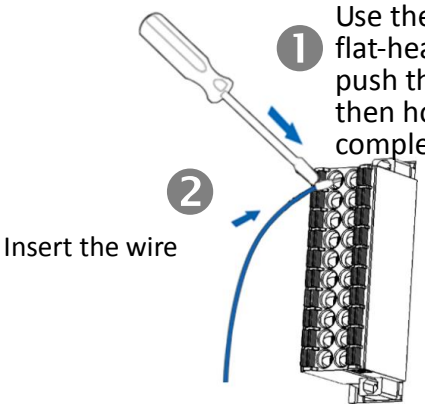


ECAT-2000 is now shown in the TwinCAT system Manager

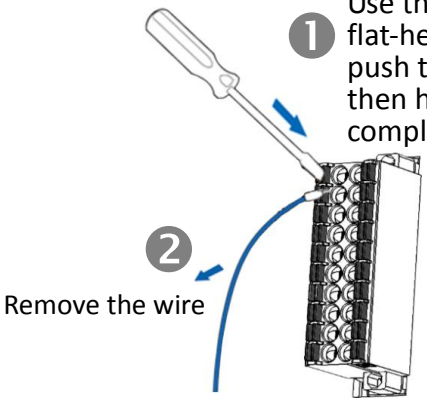
4 Wiring to the connector

Wiring Tip

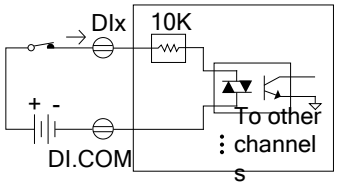
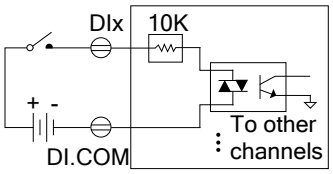
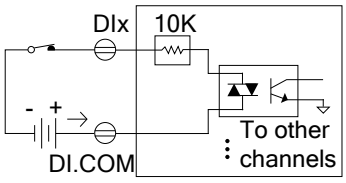
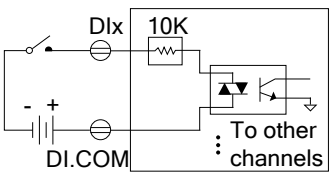
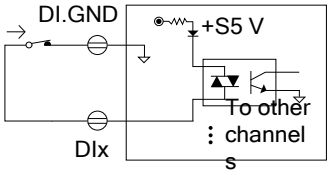
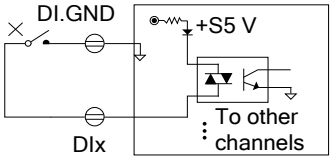
Connection the Wirie



Removing the wire

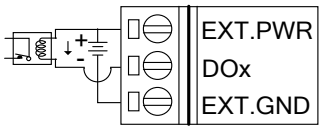
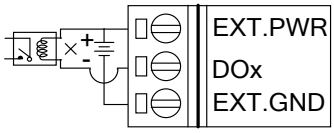
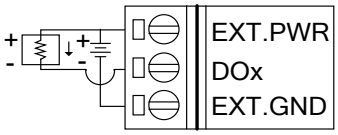
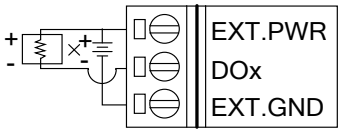


Wire Diagrams

Digital Input/Counter	Readback as 1 (+10 ~ +50 VDC)	Readback as 0 (Open or < 4VDC)
Sink		
Source		
Digital Input/Counter	**Readback as 1 (Close to GND)**	**Readback as 0 (Open)**
Dry		

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Output Type	Readback as 1 (ON State)	Readback as 0 (OFF State)
Driver Relay		
Resistance Load		

Wiring the DO0 and DI0 Pins

❶ Connect the **DO0**(Pin2) to the **DI0** (Pin20)

❸ Connect the GND on external power supply to the EXT.GND(Pin1)

Terminal No.	Pin Assignment	Pin Assignment	Terminal No.
1	EXT.GND	GND	19
2	DO0	DI0	20
3	DO1	DI1	21
4	DO2	DI2	22
5	DO3	DI3	23
6	DO4	DI4	24
7	DO5	DI5	25
8	DO6	DI6	26
9	DO7	DI7	27
10	DO8	DI8	28
11	DO9	DI9	29
12	DO10	DI10	30
13	DO11	DI11	31
14	DO12	DI12	32
15	DO13	DI13	33
16	DO14	DI14	34
17	DO15	DI15	35
18	EXT.PWR	DI.COM	36

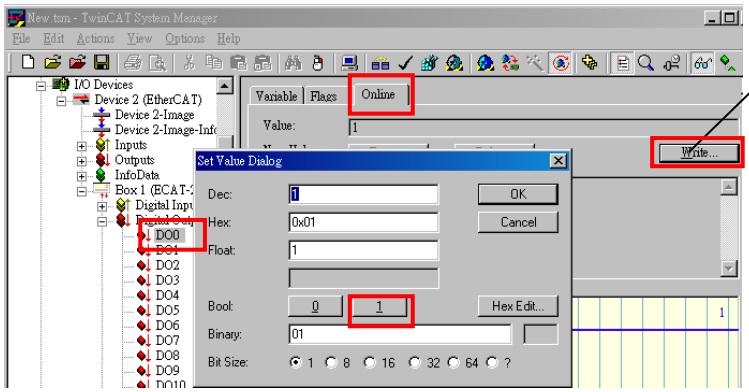


GND

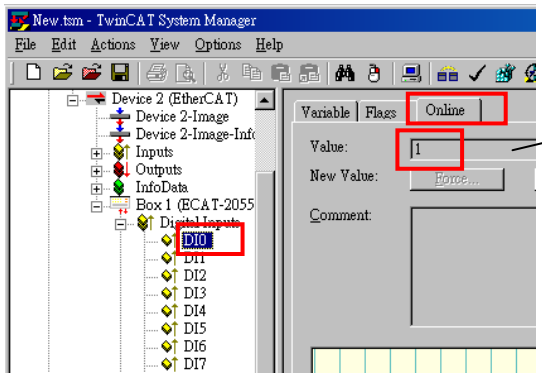
$+24V_{DC}$

❷ Connect +24V external power supply to the DI.COM(Pin36) and EXT.PWR(pin18)

Verifying the DI and DO functionality



In the left-hand of the window, click on the DO0.
In the right-hand of the windows, click the online.
Click Write.
Click 1 (Configure DO0 to Logic1).



In the left-hand of the window, click DI0.
In the right-hand of the windows, click the online.
Check Value is 1.

Related Information

Product Page:
http://www.icpdas.com/root/product/solutions/industrial_communication/fieldbus/ethercat/io_module/ecat-2055-32.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

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