

ECAT-2045-32 Quick Start

v1.2, September 2019

1 Shipping Package

This shipping package contains the following items

1 x ECAT-2000 module

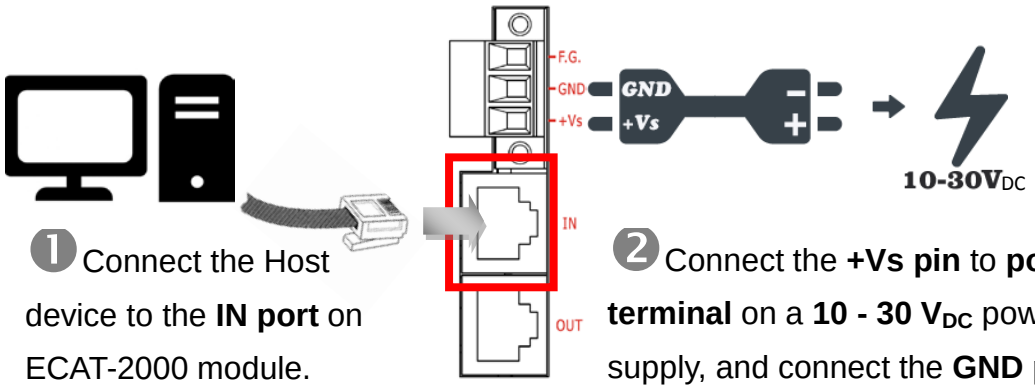


1 x Quick Start (This Document)



2 Connecting the Power and Host device

Switch on module and connect it to an EtherCAT network

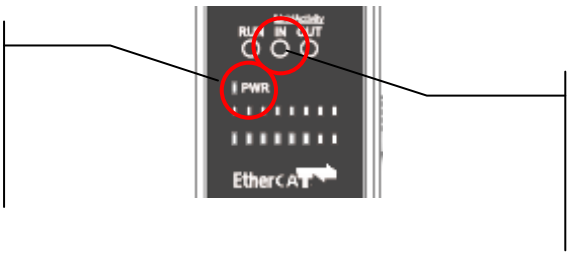


❶ Connect the Host device to the **IN port** on ECAT-2000 module.

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**.

Red, OK

PWR



Green, OK

IN

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3 Search Modules

ESI file

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

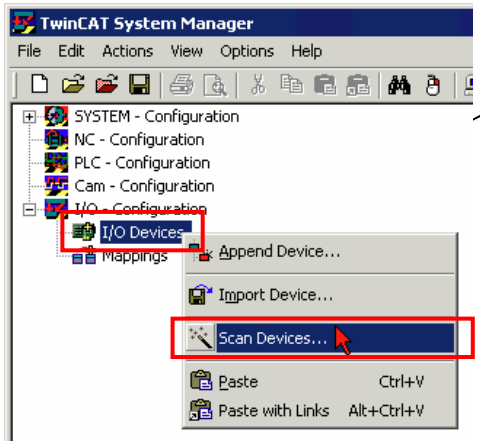
http://ftp.icpdas.com/pub/cd/fieldbus_cd/ethercat/slave/ecat-2000/software/

Install the ESI file

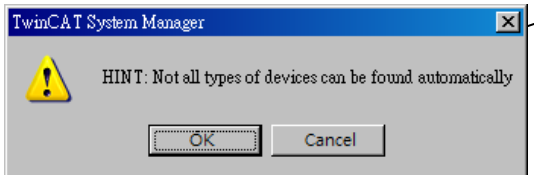
Copy the **"ICPDAS ECAT-2000.xml"** file to the Master Tools installation folder, as indicated in the table below.

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

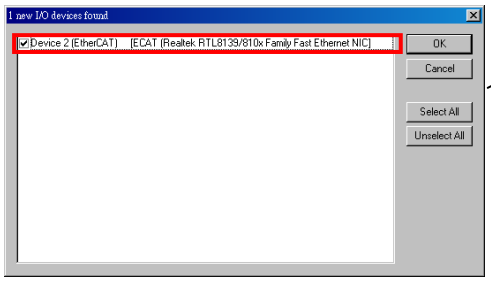
Run the EtherCAT Master software (Beckhoff TwinCAT 2.X)



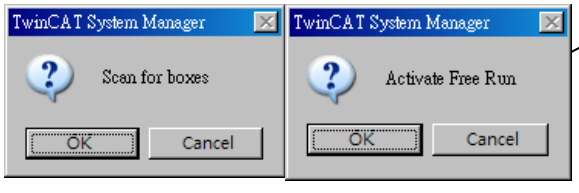
Switch on power
Execute the TwinCAT System Manager(Config mode)
I/O Devices-> Right click-> Scan Devices…



Click **OK**

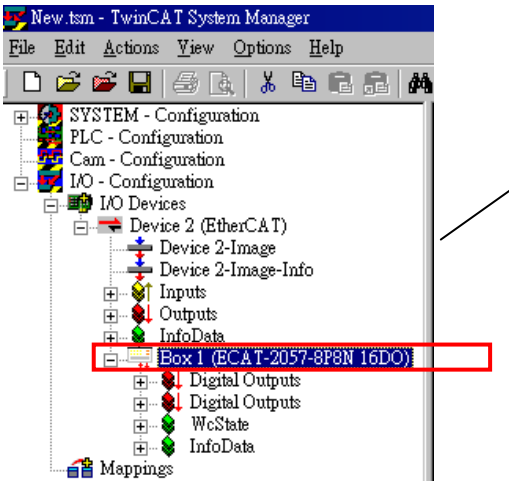


Choose the **correct network device** which is connected to ECAT-2000



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

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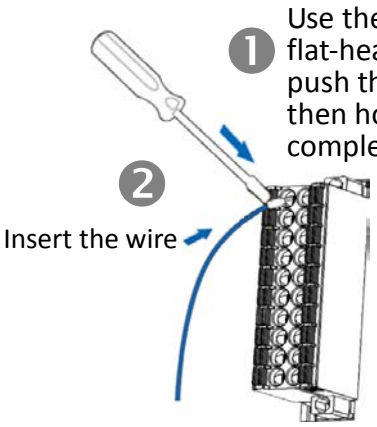


ECAT-2000 is now shown in the TwinCAT system Manager

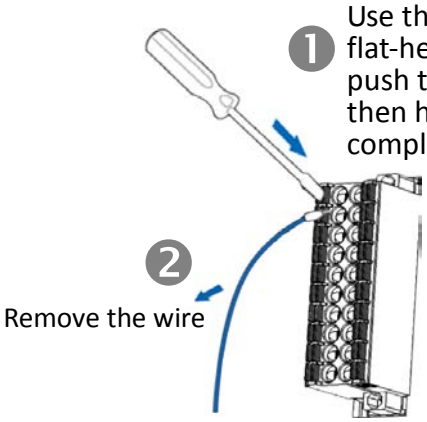
4 Wiring to the connector

Wiring Tip

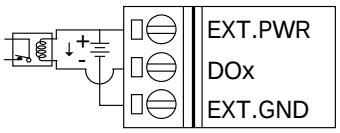
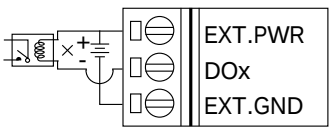
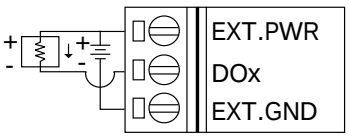
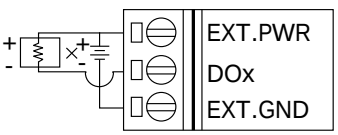
Connection the wire



Removing the wire



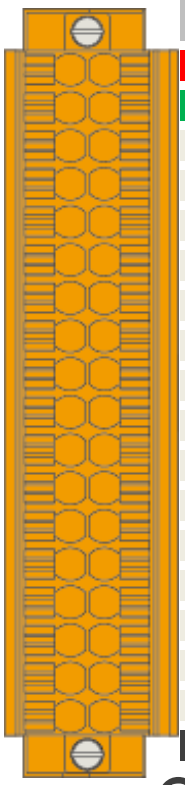
Wire Diagrams

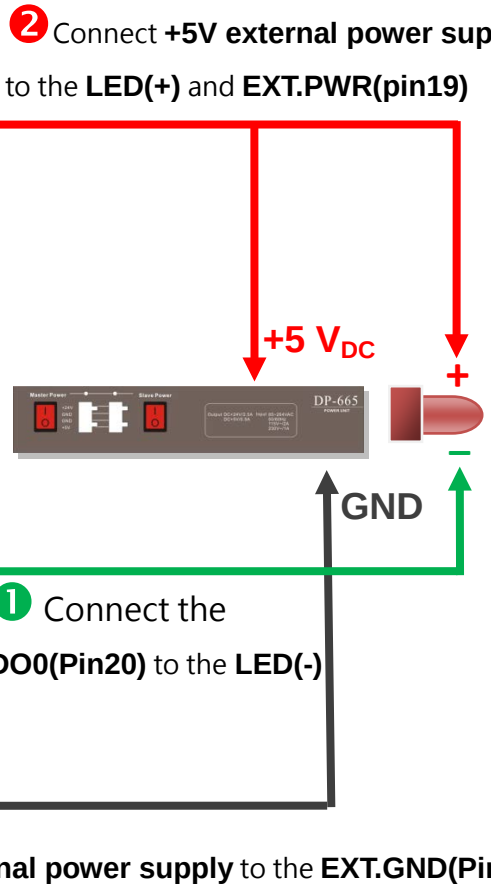
Output Type	Sink	
	ON State Readback as 1	OFF State Readback as 0
Drive Relay		
Resistance		

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Wiring the DO

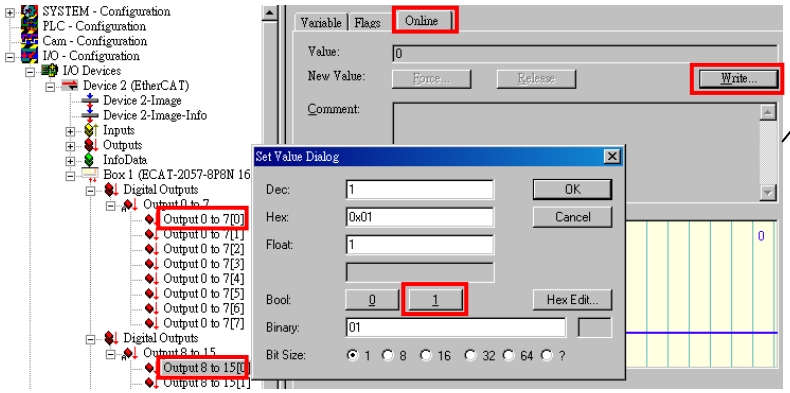
Terminal No.	Pin Assignment	Pin Assignment	Terminal No.
Ext.PWR	1	19	Ext.PWR
DO16	2	20	DO0
DO17	3	21	DO1
DO18	4	22	DO2
DO19	5	23	DO3
DO20	6	24	DO4
DO21	7	25	DO5
DO22	8	26	DO6
DO23	9	27	DO7
DO24	10	28	DO8
DO25	11	29	DO9
DO26	12	30	DO10
DO27	13	31	DO11
DO28	14	32	DO12
DO29	15	33	DO13
DO30	16	34	DO14
DO31	17	35	DO15
Ext.GND	18	36	Ext.GND





3 Connect the **GND on external power supply** to the **EXT.GND(Pin36)**

Verifying the DO functionality



Click **Output 0 to 7**and click **Output 0 to 7[0]** in the left-hand window.

Click **online** in the right-hand window.

Click **Write**.

Click **1 (Configure DO0 to Logic1)**.



LED is lighting.

Related Information

Product Page:
http://www.icpdas.com/root/product/solutions/industrial_communication/fieldbus/ethercat/io_module/ecat-2045-32.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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