

# Quick Start
## for ECAT-2051-32

English / July.2016/ Ver 1.0

# 1 Shipping Package

This shipping package contains the following items

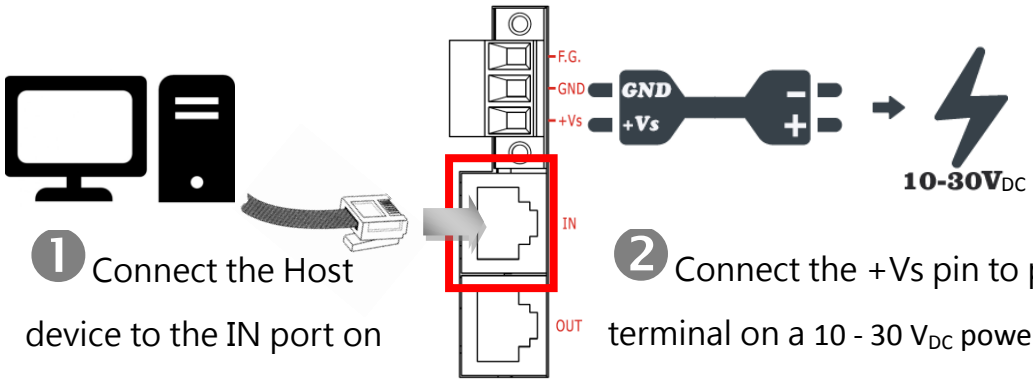
1 x ECAT-2000 module



1 x Quick Start Guide (This Document)

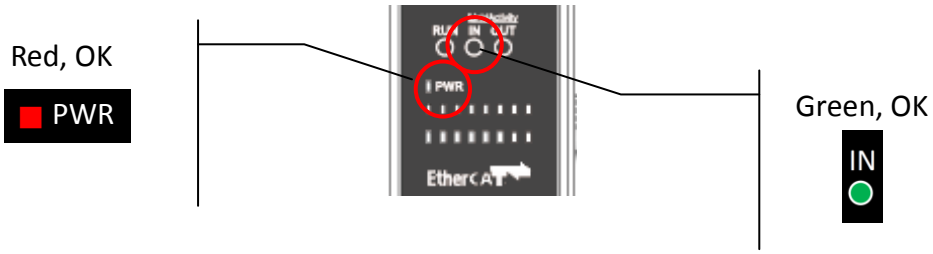
# 2 Connecting the Power and Host device

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

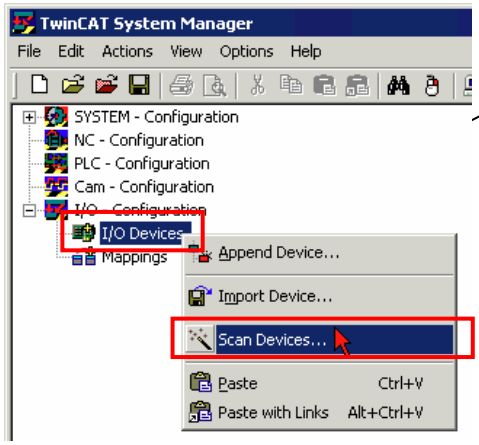
http://ftp.icpdas.com/pub/cd/fieldbus_cd/ethercat/slave/ecat-2000/software/

## Install the ESI file

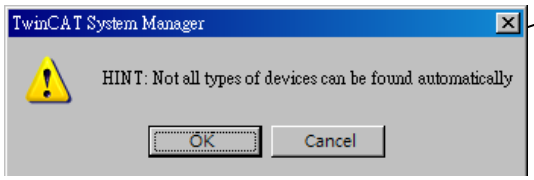
Copy the “ICPDAS ECAT-2000.xml” file to the Master Tools installation folder, as indicated in the table below.

| 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 |

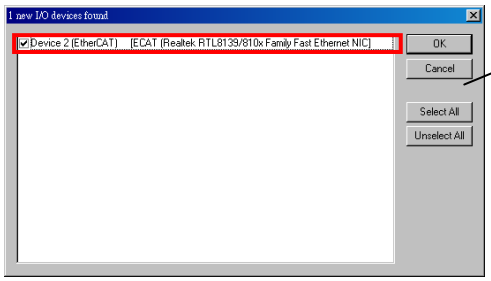
## Run the EtherCAT Master software (Beckhoff TwinCAT 2.X)



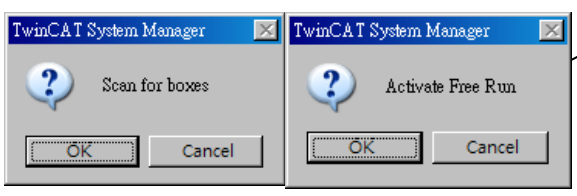

Switch on power
Execute the TwinCAT System Manager(Config mode)
I/O Devices-> Right click-> Scan Devices…




Click OK



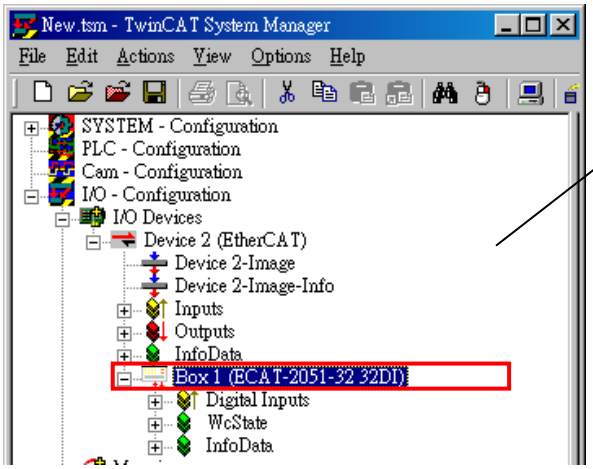

Choose the correct network device which is connected to ECAT-2000




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

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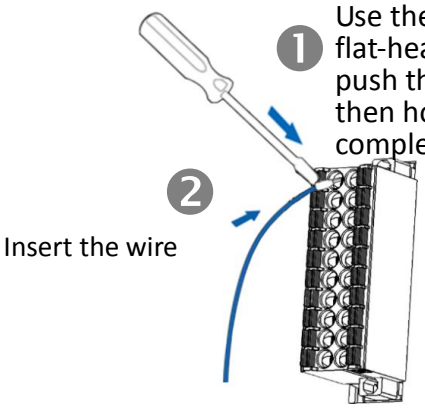



ECAT-2000 is now shown in the TwinCAT system Manager

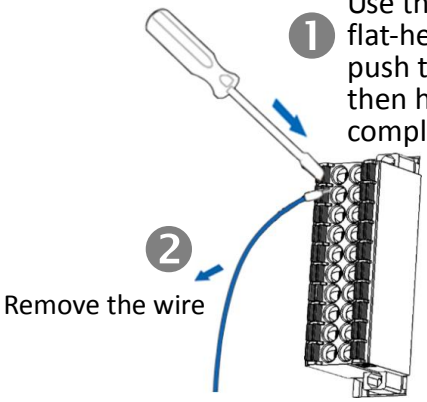
# 4 Wiring to the connector

## Wiring Tip

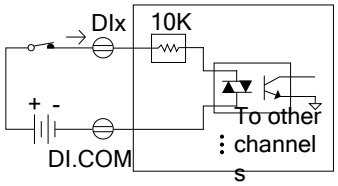
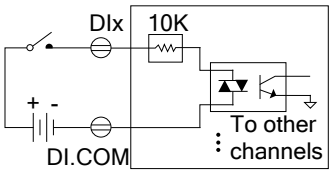
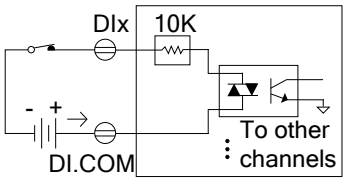
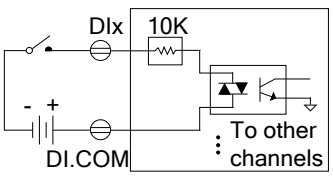
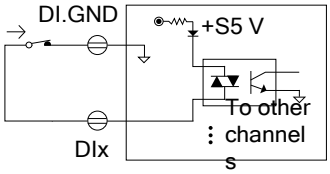
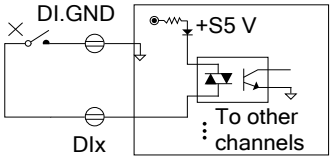
### Connection the wire




### 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 |   |   |

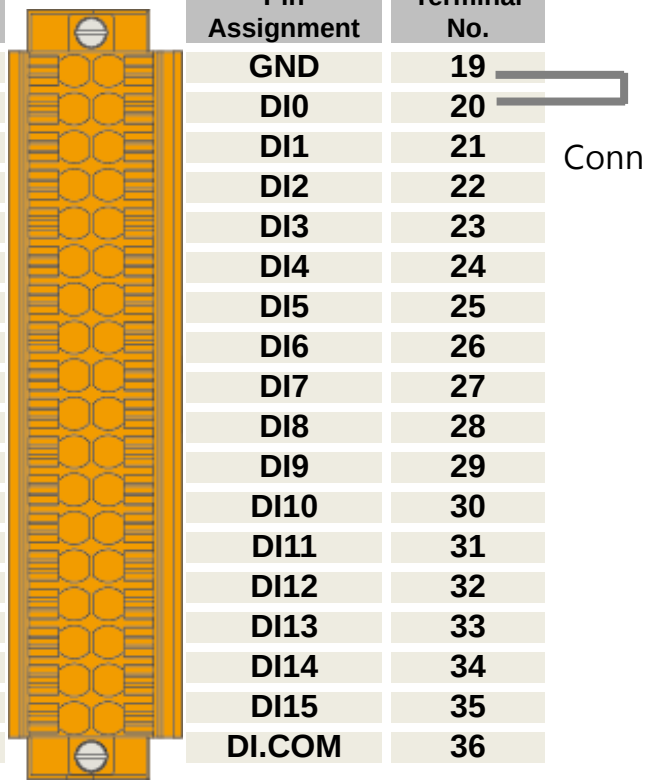
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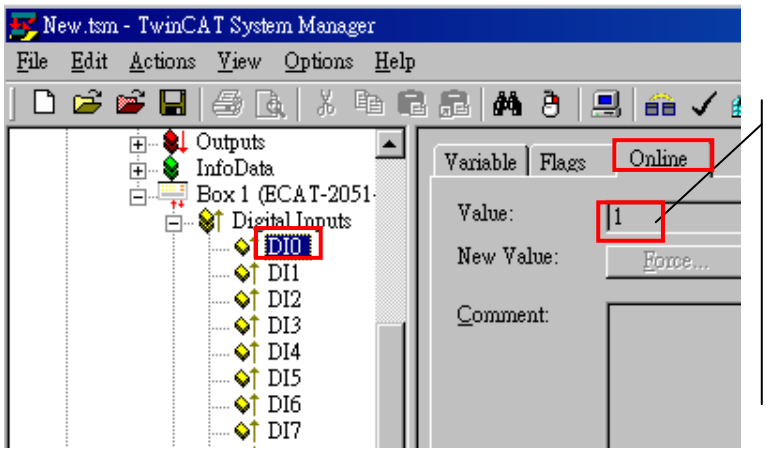
## Wiring the DI0 Pins

| Terminal No. | Pin Assignment | Pin Assignment | Terminal No. |
|---|---|---|---|
| 1 | GND | GND | 19 |
| 2 | DI16 | DI0 | 20 |
| 3 | DI17 | DI1 | 21 |
| 4 | DI18 | DI2 | 22 |
| 5 | DI19 | DI3 | 23 |
| 6 | DI20 | DI4 | 24 |
| 7 | DI21 | DI5 | 25 |
| 8 | DI22 | DI6 | 26 |
| 9 | DI23 | DI7 | 27 |
| 10 | DI24 | DI8 | 28 |
| 11 | DI25 | DI9 | 29 |
| 12 | DI26 | DI10 | 30 |
| 13 | DI27 | DI11 | 31 |
| 14 | DI28 | DI12 | 32 |
| 15 | DI29 | DI13 | 33 |
| 16 | DI30 | DI14 | 34 |
| 17 | DI31 | DI15 | 35 |
| 18 | DI.COM | DI.COM | 36 |



Connect the **DI0**(Pin20) to **GND** (Pin19)

## Verifying the DI functionality




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-2051-32.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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