

ECAT-2011H Quick Start

v1.0, Oct. 2018

What's in the box?

The package includes the following items:



ECAT-2011H Module x 1

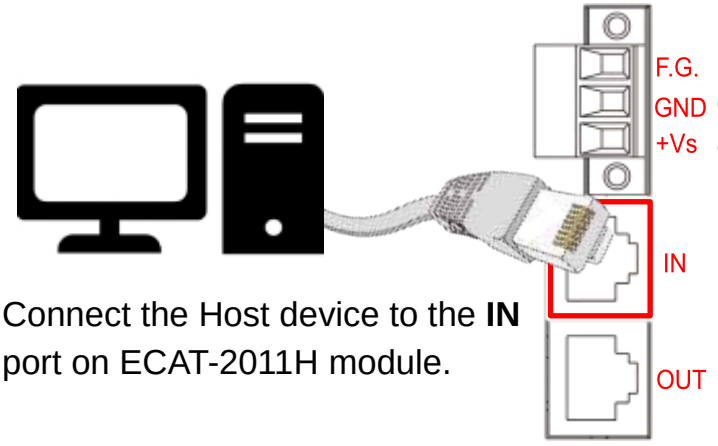


Quick Start x1 (This Document)

1 Connecting the Power and Host PC

➢ **Switch on module and connect it to an EtherCAT network**

⚠ **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).**



1) Connect the Host device to the **IN** port on ECAT-2011H module.

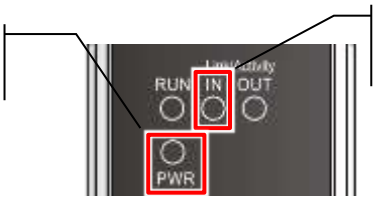


2) Connect the **PWR+** pin to positive terminal on a **+10 - +30 V_{DC}** power supply, and connect the **GND-** pin to the negative terminal.

➢ **Verify that LEDs indicator**

Red, OK





Green, OK



Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2 Search Modules

ESI file

The latest ESI file (**ICPDAS ECAT-2011.xml**) can be downloaded from ICP DAS website at

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

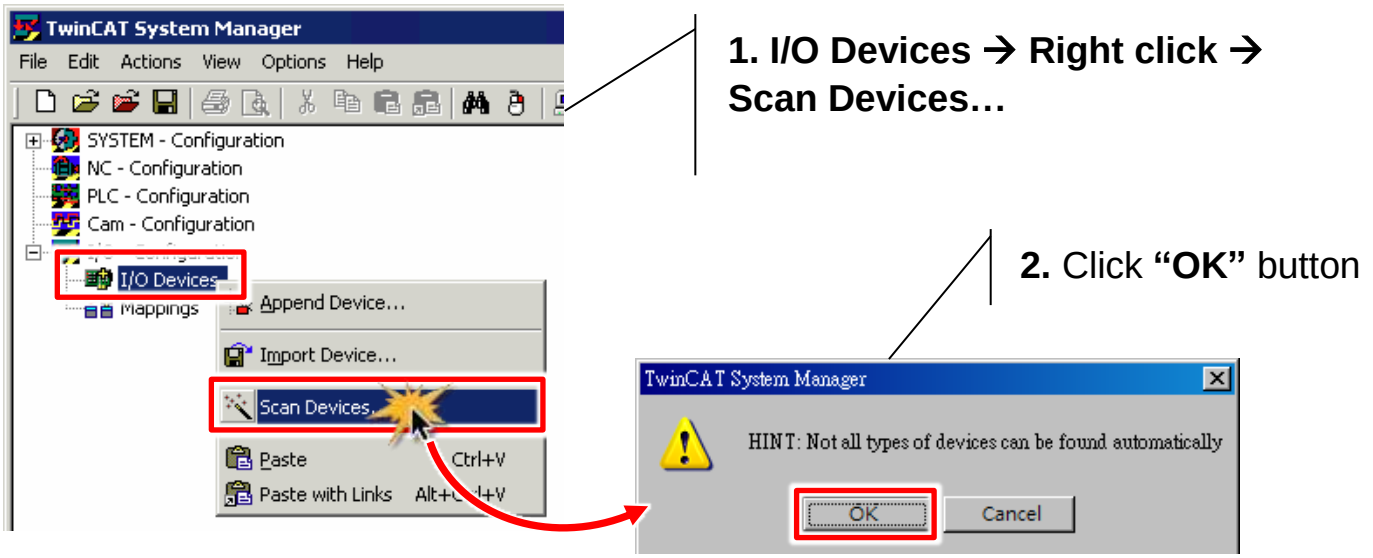
Install the ESI file

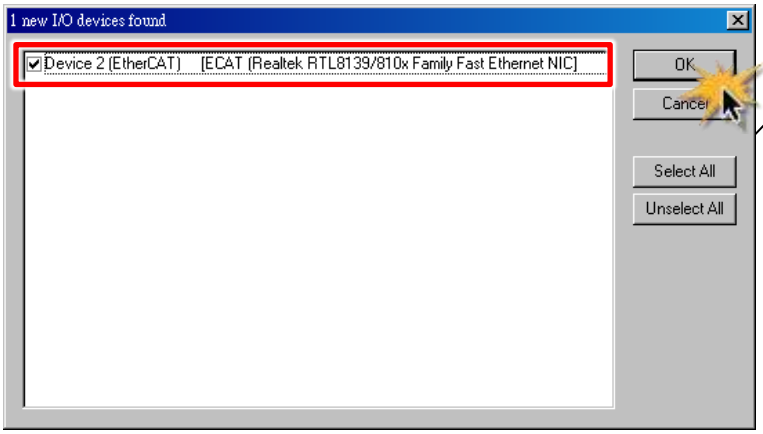
Copy the **"ICPDAS ECAT-2011.xml"** file to the Master Tools installation folder, as indicated in the table below.

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)

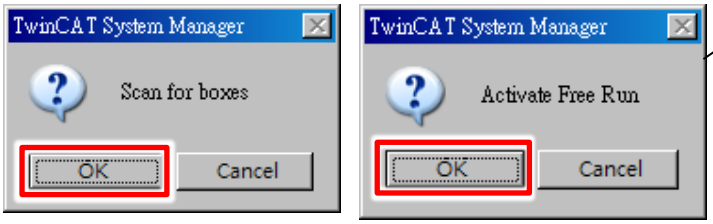
Switch on power and execute the TwinCAT System Manager (Config mode)



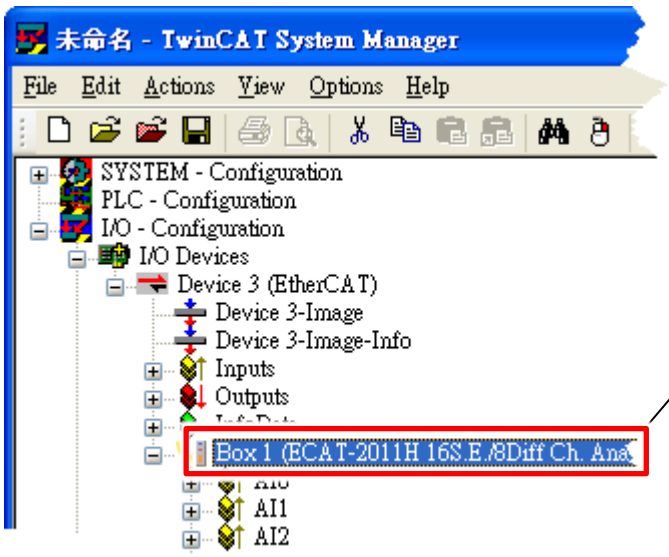


3. Choose the correct network device which is connected to ECAT-2011H and click **"OK"** button

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000



4. Click **“OK”** to start scanning Click **“OK”** to activate the free run mode for TwinCAT system manager



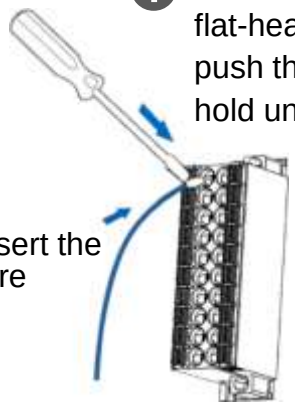
5. In the left-hand window, **ECAT-2011H** is now shown in the TwinCAT system Manager

3 Wiring to the Connector

➢ Wiring Tip

Connecting the wire

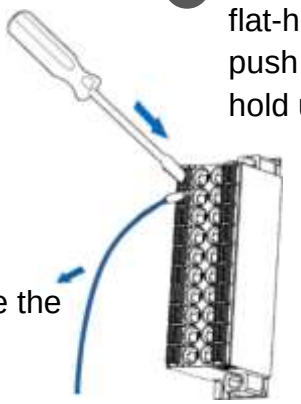
❶ Use the blade of a flat-head screwdriver to push the wire clamp, then hold until step 2 complete.



❷ Insert the wire

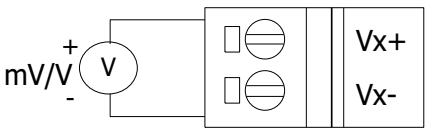
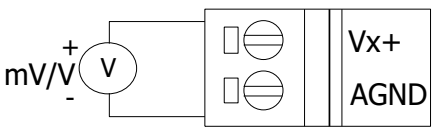
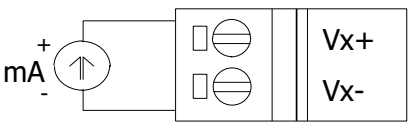
Removing the wire

❶ Use the blade of a flat-head screwdriver to push the wire clamp, then hold until step 2 complete.



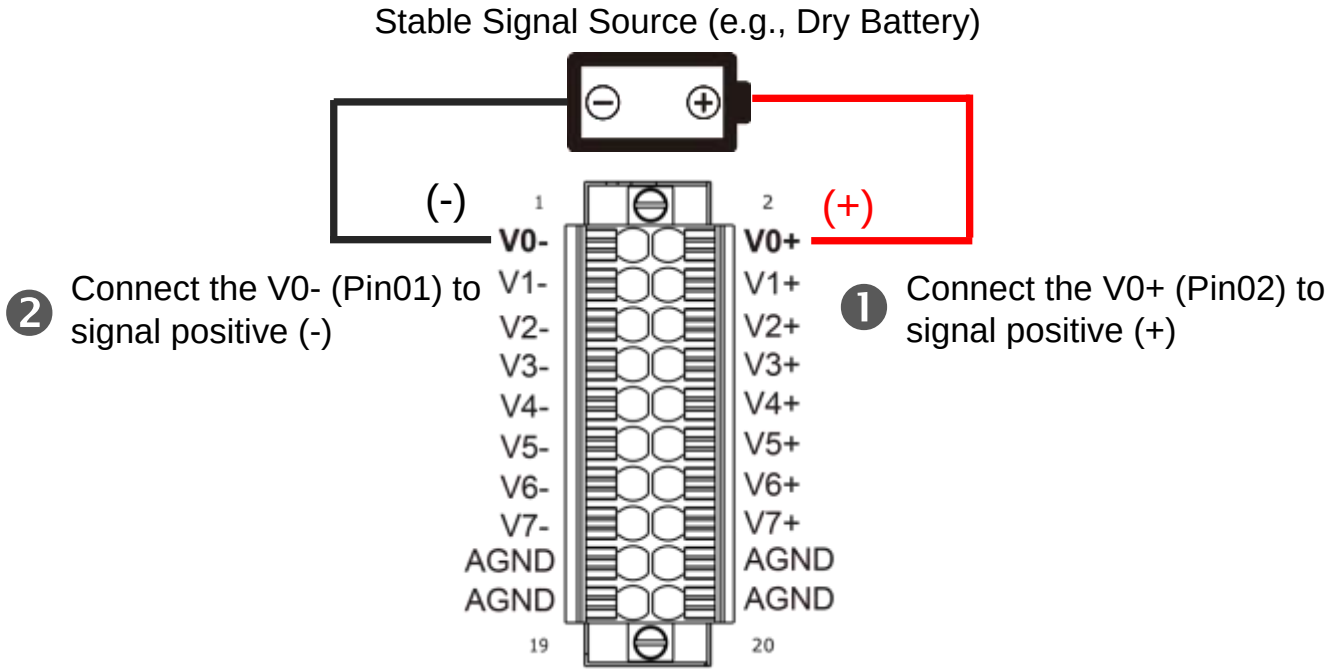
❷ Remove the wire

➢ Wire Diagrams

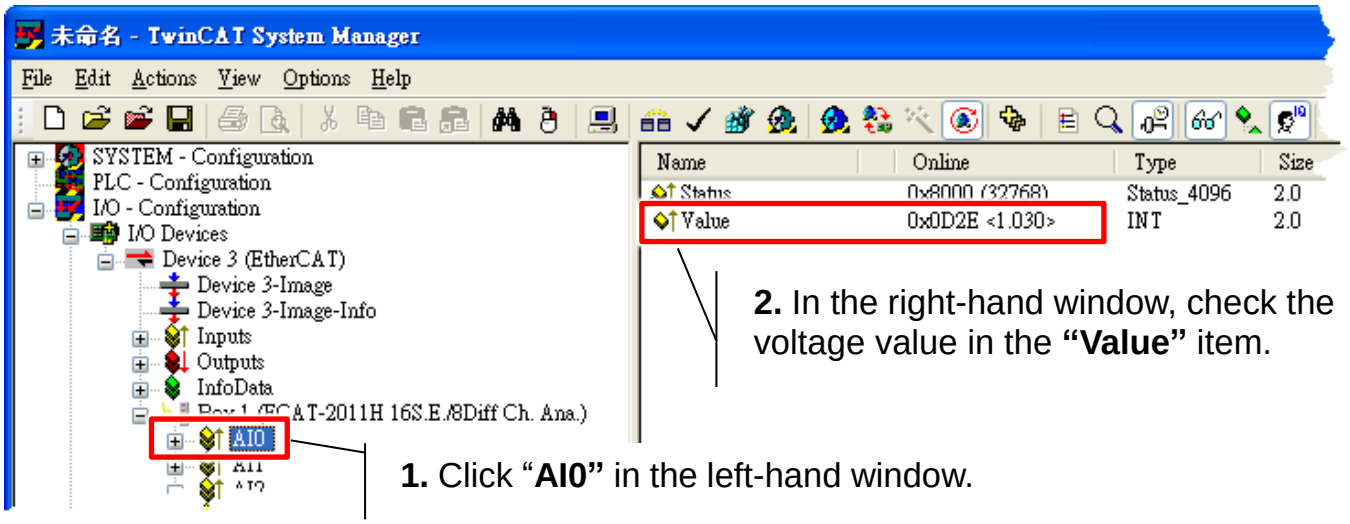
Voltage Input (Differential)	Voltage Input (Single-ended)	Current Input
 **(Default Settings)**		

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

➢ Wiring the AI0 (Analog Input type default is Differential input)



➢ Verifying the AI Functionality



Related Information

- EtherCAT Series Product Page:

http://www.icpdas.com/root/product/solutions/industrial_communication/fieldbus/ethercat/ethercat_selection_guide.html

- Documentation & Software:

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

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000