ECAT-2601 Series Quick Start

V1.1, March 2026

Packing List

In addition to this guide, the package includes the following item:



ECAT-2601 Module x 1

Technical Support

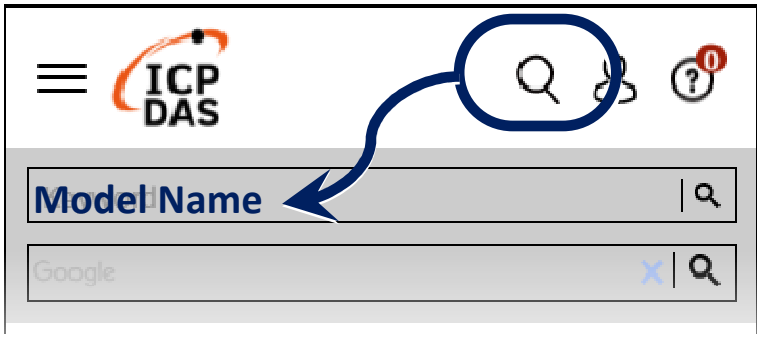
service@icpdas.com

www.icpdas.com

Resources

How to search for drivers, manuals and spec information on ICP DAS website.

- **For Mobile Web**



- **For Desktop Web**



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1 Connecting the Power and Host PC

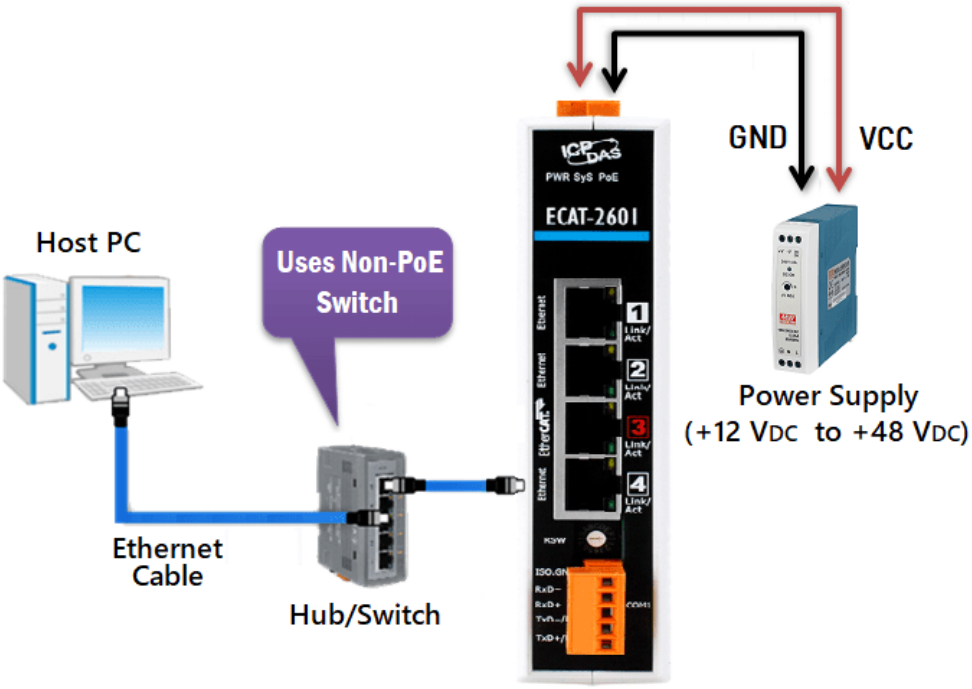
1) Make sure your PC has workable network settings.

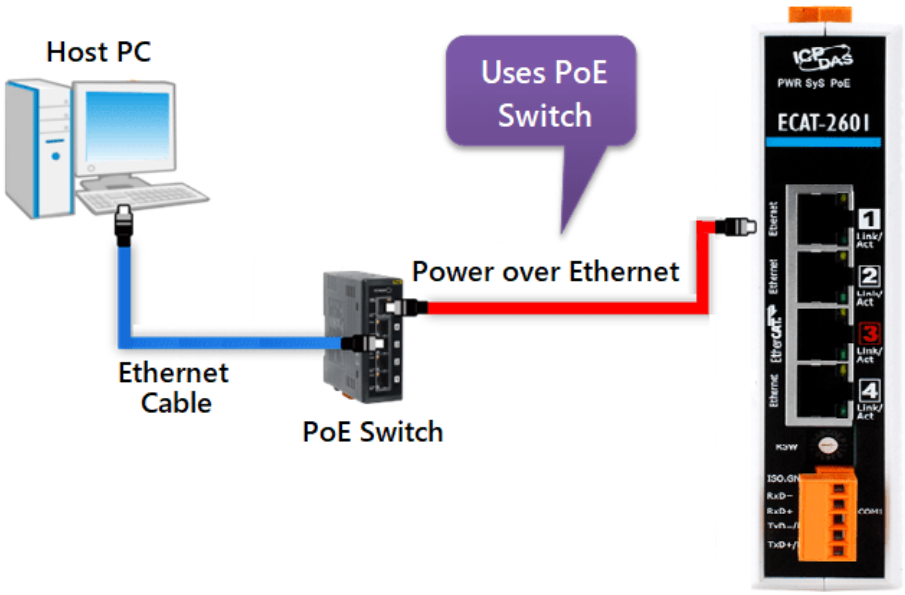
Disable or well configure your Windows firewall and Anti-Virus firewall first, else the "Search Servers" on Chapter 5 may not work. (Please contact with your system Administrator)

2) Connect both the ECAT-2601 and your PC to the same sub network or the same Ethe rnet switch.

3) Supply power (PoE or +12~+48 VDC) to the ECAT-2601.

Note : Please use the first RJ-45 jack (ETH1) to connect the PoE Switch when using the PoE to power. The others RJ-45 jack doesn't support the PoE function.





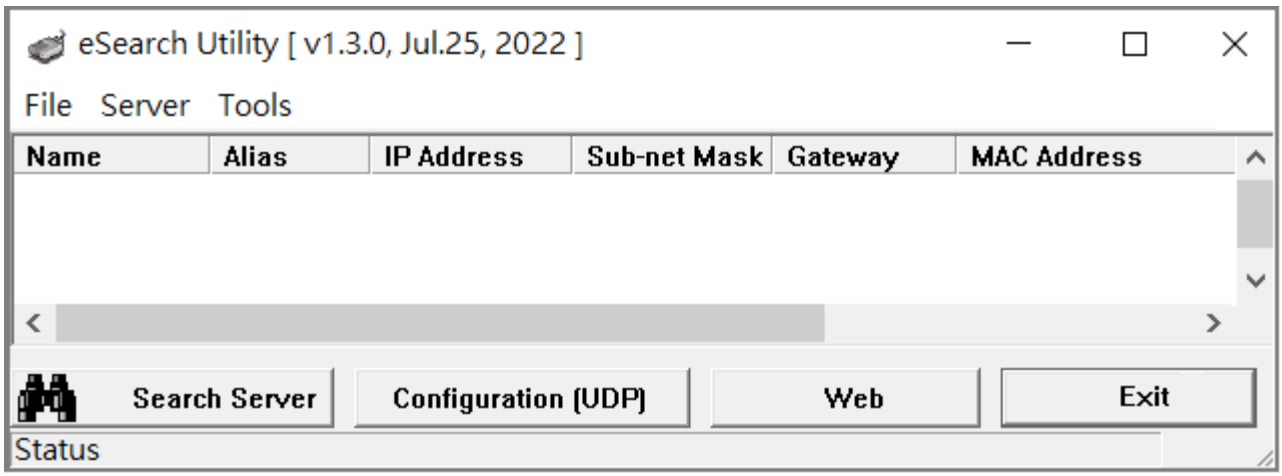
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2 Installing Software on Your PC

Install eSearch Utility, which can be obtained from the web site:



https://www.icpdas.com/en/download/index.php?nation=US&kind1=&model=&kw=esearch



3 Wiring Notes

Wiring Notes for RS-485/422 Interfaces:

☑ Here, the RS-485 and RS-422 wiring is used as an example.

RS-485 Wiring			RS-422 Wiring		
GW-25xx		RS-485 Modbus Device	GW-25xx		RS-422 Modbus Device
D+	↔	D+	TxD+	→	RxD+
D-	↔	D-	TxD-	→	RxD-
GND	—	GND	RxD+	←	TxD+
			RxD-	←	TxD-
			GND	—	GND

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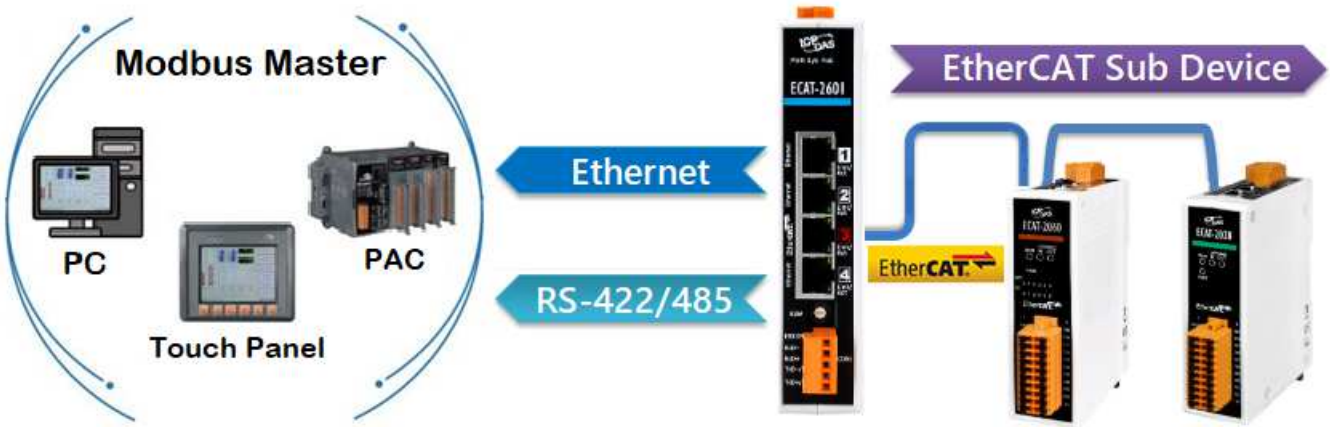
4 Connecting the Modbus and EtherCAT Devices

1) Connect the Modbus Master (e.g., PC, PAC, PLC) via the Ethernet or COM1 port on ECAT-2601 module.

2) Connect the EtherCAT device (e.g., ECAT-2060, optional) to the EtherCAT port **(ETH3)** on ECAT-2601 module.

3) Supply power (PoE or +12~+48 VDC) to the ECAT-2601.

Note: The wiring and supply power method depends on your device.



5 Configuring Network Settings

Default Settings of ECAT-2601:

IP Address	Subnet Mask	Gateway	User Name
192.168.255.1	255.255.0.0	192.168.0.1	Admin

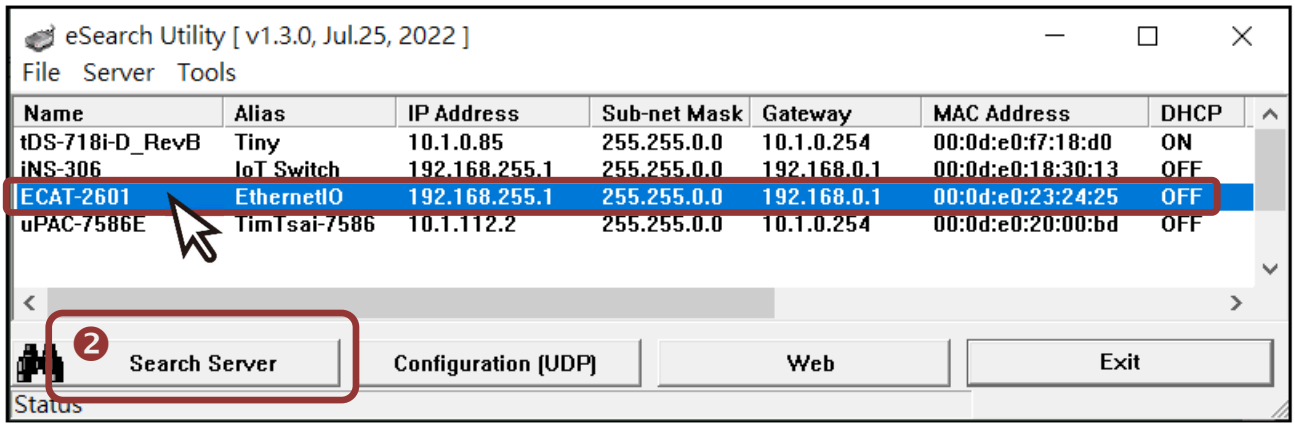
1) Double-click the eSearch Utility shortcut on the desktop.



2) Click the **"Search Servers"** to search your ECAT-2601.

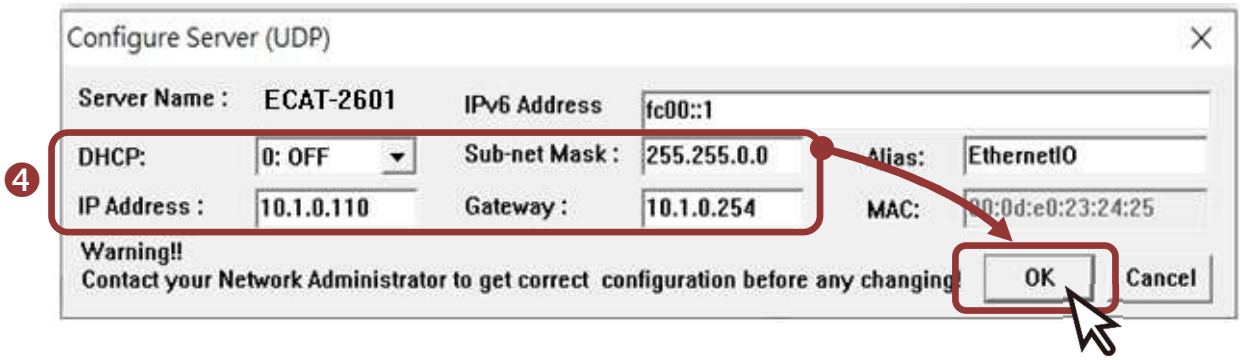
3) Double-click the name of ECAT-2601 to open the **"Configure Server (UDP)"** dialog box.

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4) Contact your Network Administrator to obtain a correct network configuration (such as **IP/Mask/Gateway**). **Enter the network settings** and click **"OK"**.

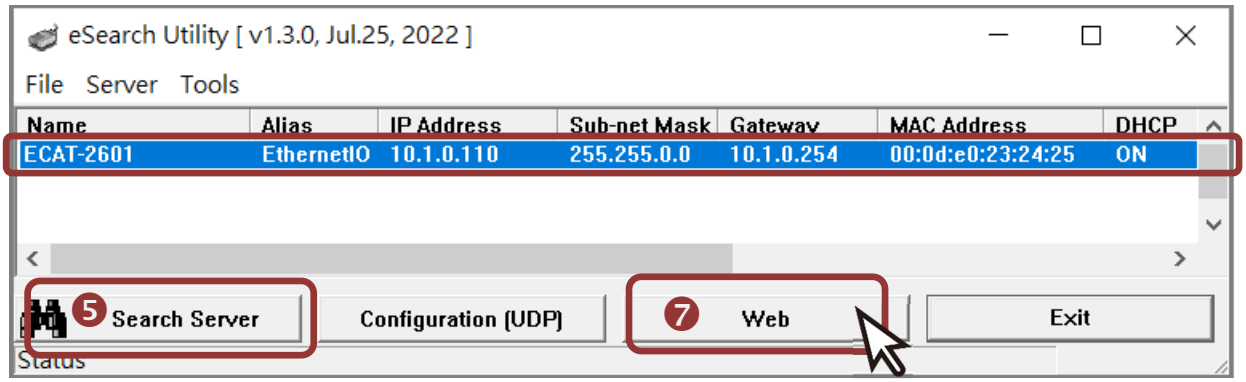
Note: The ECAT-2601 will use the new settings 2 seconds later.



5) Wait 2 seconds and click **"Search Servers"** button again to ensure the ECAT-2601 is working well with new configuration.

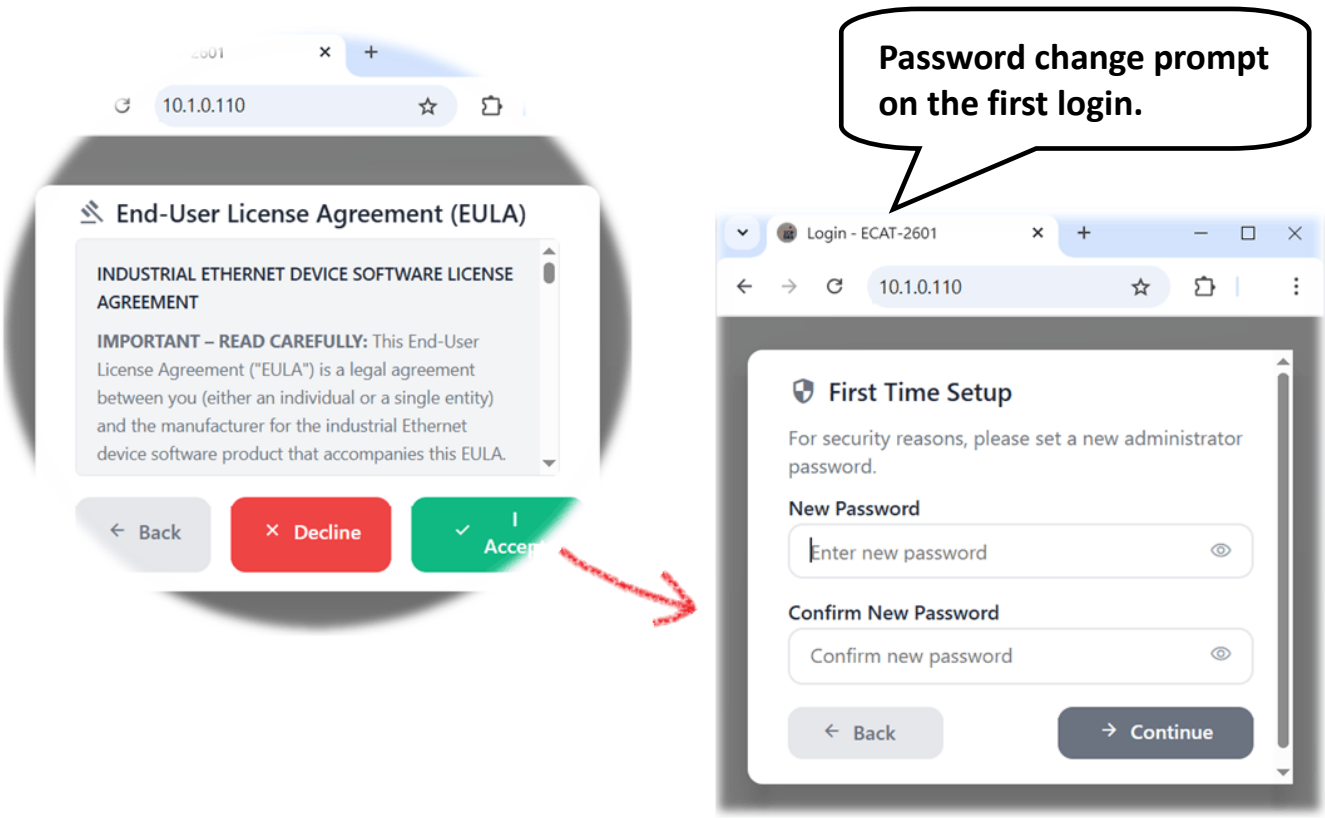
6) Click the name of ECAT-2601 to select it.

7) Click the **"Web"** button to log in to the web configuration pages.
(Or enter the URL address of the ECAT-2601 in the address bar of the browser.)

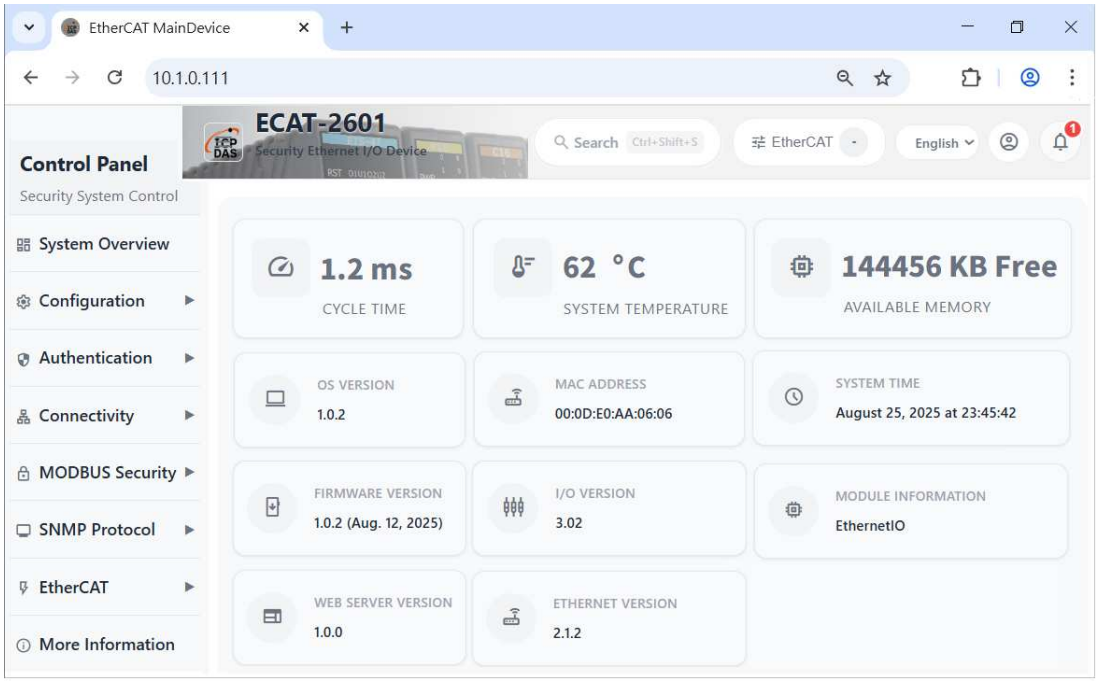


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8) When the ECAT-2601 web page appears, a pop-up box containing an **End-User License Agreement (EULA)** will appear. You will need to read this and click "**I Accept**" before you can continue.



9) Once you have set the new password in the pop-up box, the user will be able to log in to the ECAT-2601 homepage.



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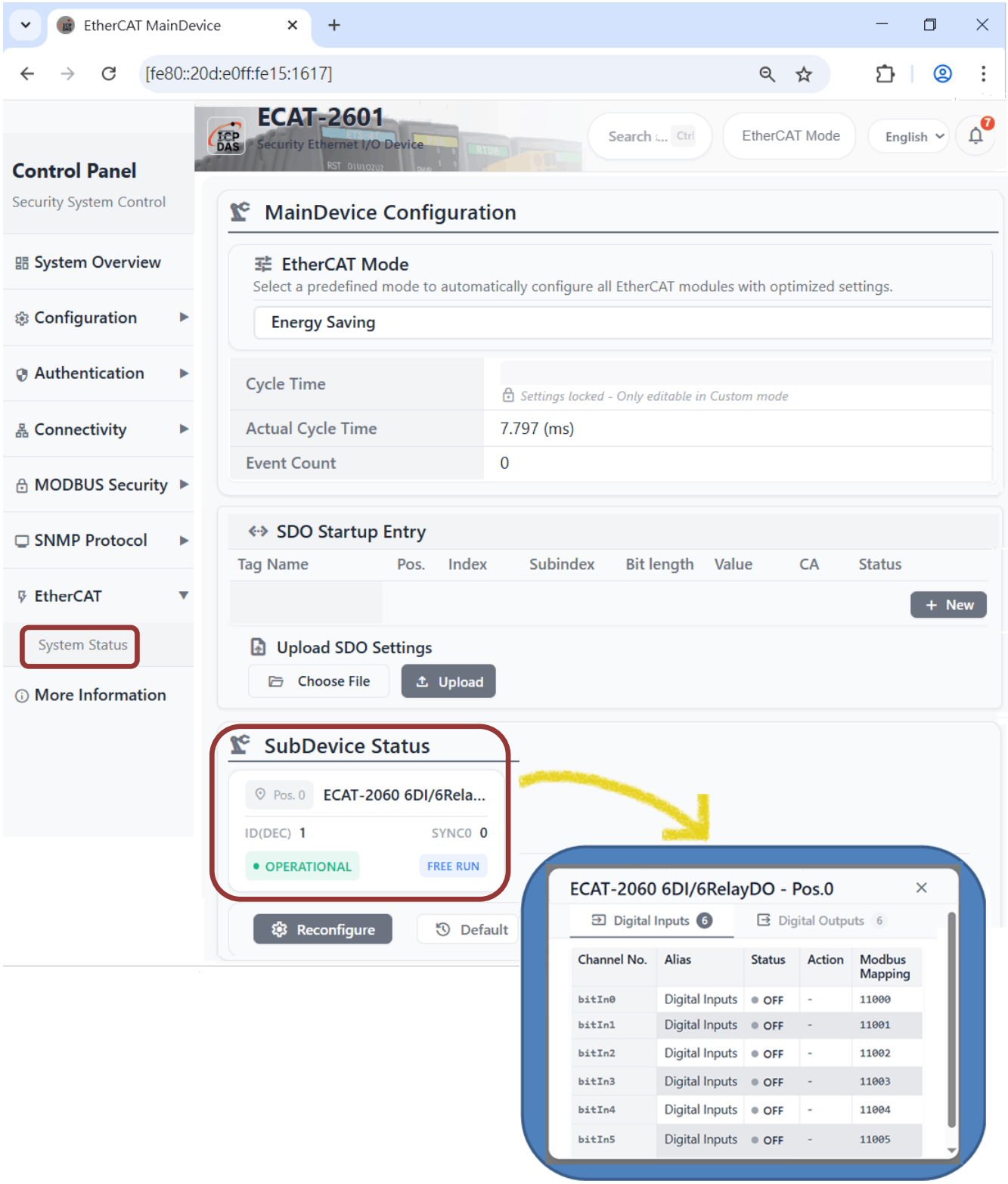
6 Configuring the EtherCAT Port

1) Click the **“EtherCAT”** tab to display the **“MainDevice Configuration”** page.

2) Select the **“Cycle Time”** from the relevant drop down options.

3) Click **“New”** to sartup entry for SDO.

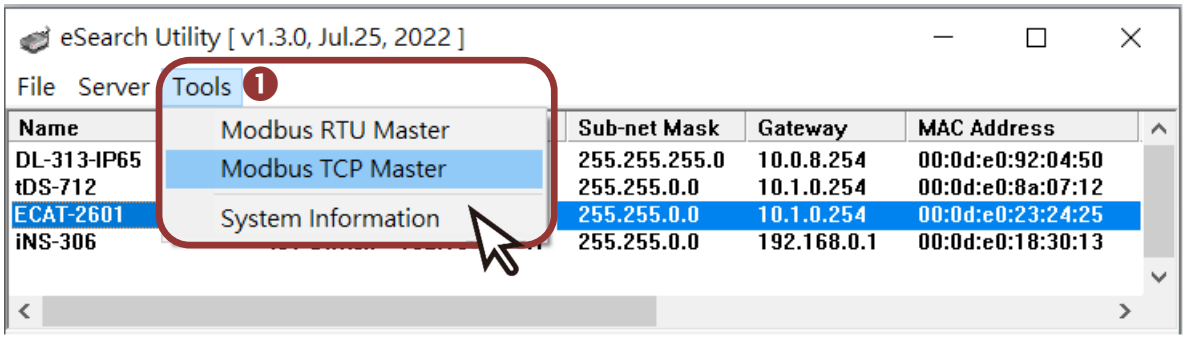
4) If the module is connected to an ECAT device, user can also view the status.



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7 Self-Test

1) In the eSearch Utility, select the **“Modbus TCP Master”** item from the **“Tools”** menu to open the Modbus TCP Master Utility.

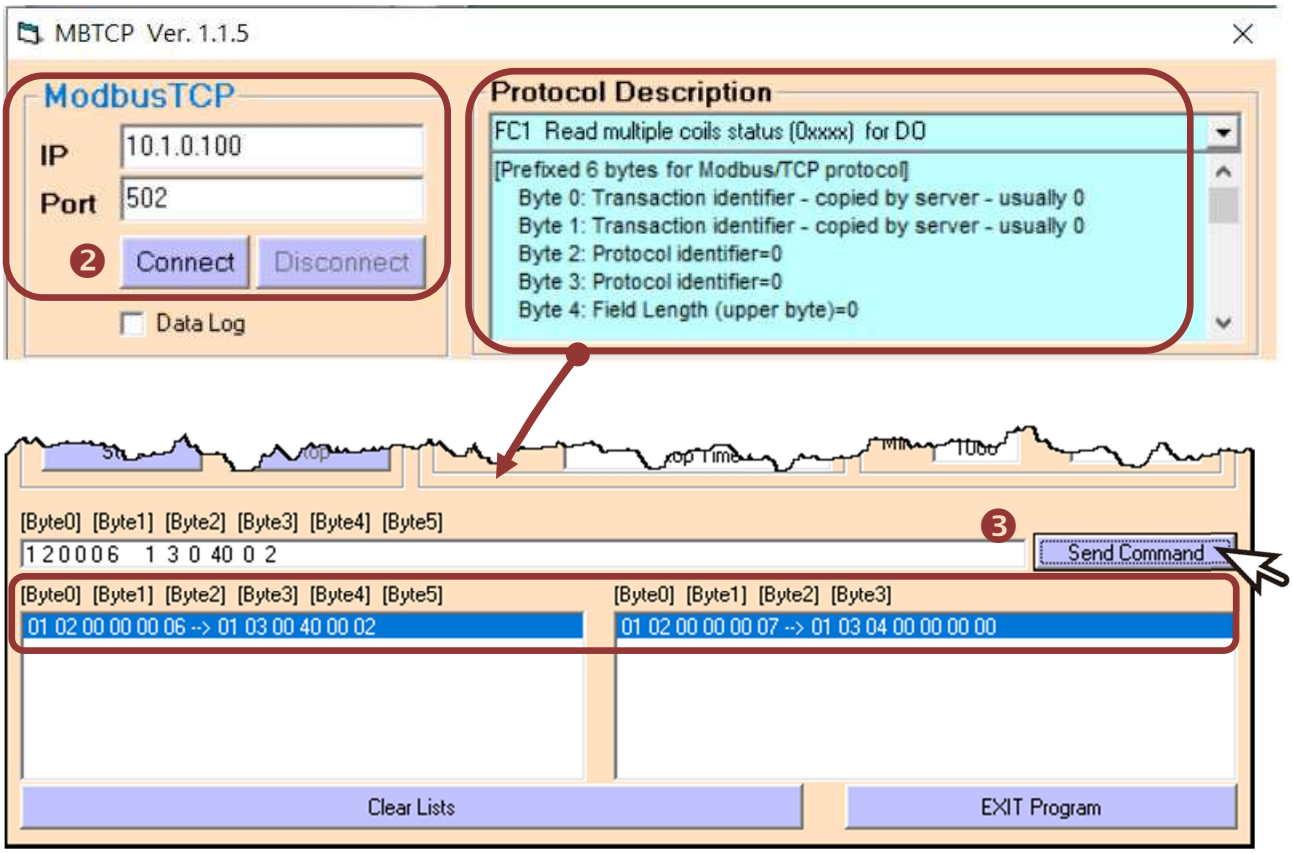


2) In the Modbus TCP Modbus Utility, enter the IP address of ECAT-2601 and click **“Connect”** to connect the ECAT-2601.

3) Refer to **“Protocol Description”** section and type the Modbus command in the “Command” field then click **“Send command”**.

4) If the response data is correct, it means the test is success**.**

Note: The Modbus command settings depends on your Modbus device.



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