tSH-73x-UL Series Quick Start

v1.0, Oct 2026

Packing List

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



tSH-73x-UL X 1



CA-002-UL X 1

Technical Support

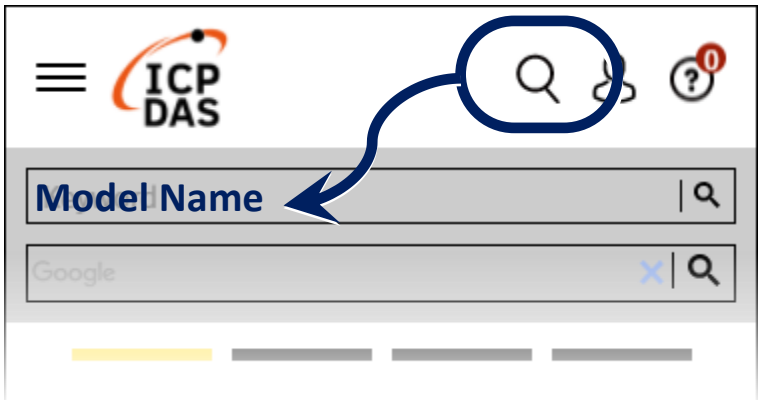
service@icpdas.com

www.icpdas.com

Resources

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

- For Mobile Web



- For Desktop Web



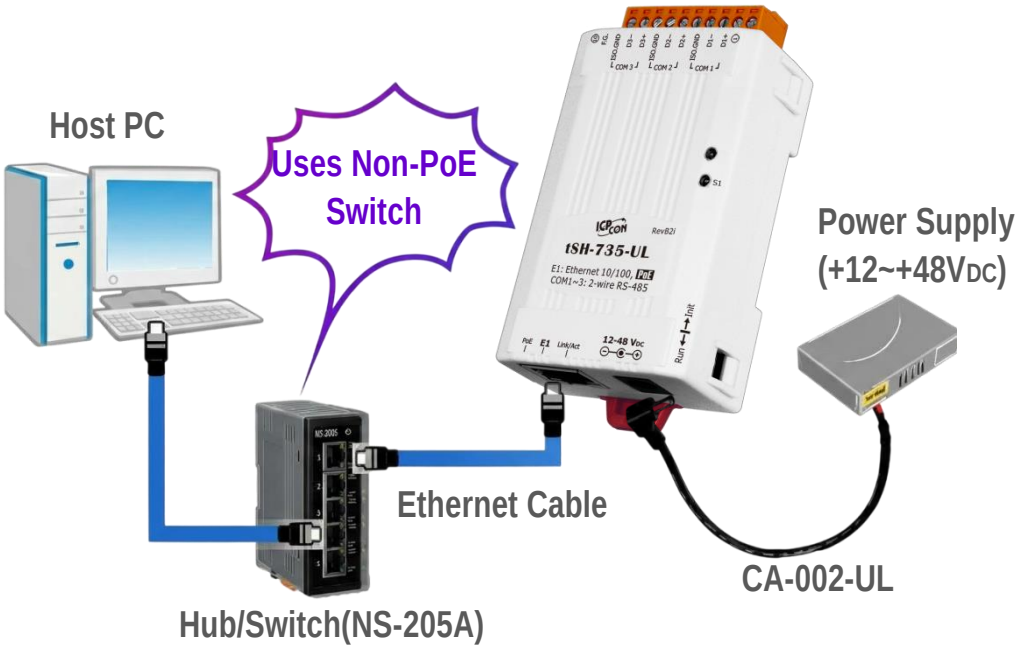
1 Connecting the Power and Host PC

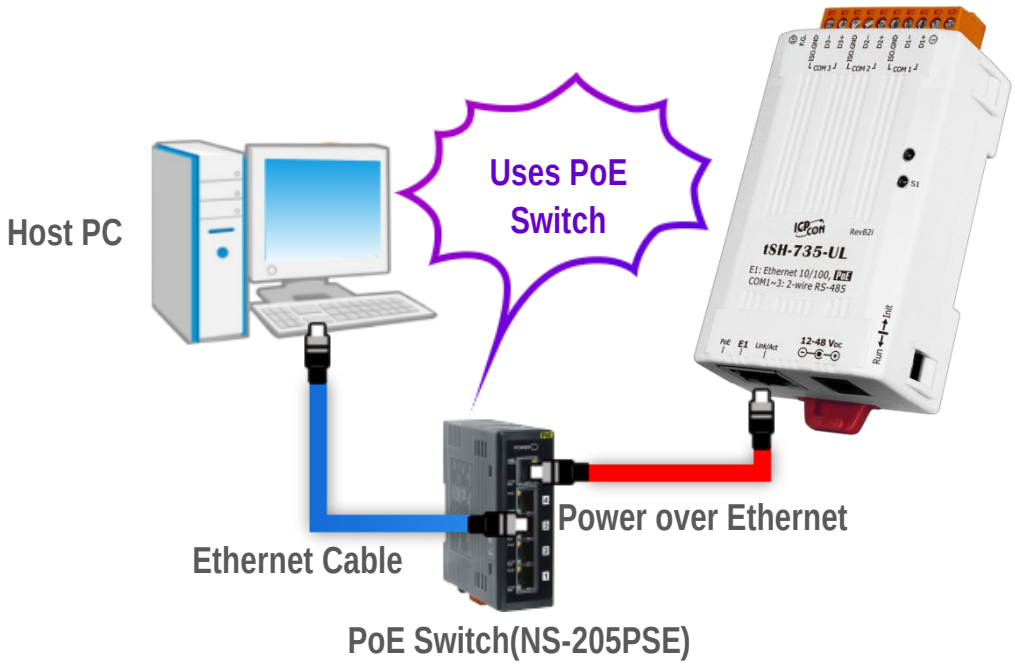
1) Make sure your PC has workable network settings.

Disable or well configure your Windows firewall and Anti-Virus firewall first, else the **"Search Servers"** on **Chapter 4** may not work. (Please contact with your system Administrator)

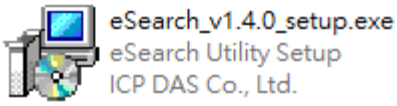
2) Connect both the tSH-73x-UL and your PC to the same sub network or the same Ethernet switch.

3) Supply power (PoE or +12 ~ +48 V_{DC}) to the tSH-73x-UL.





2 Installing Software on Your PC



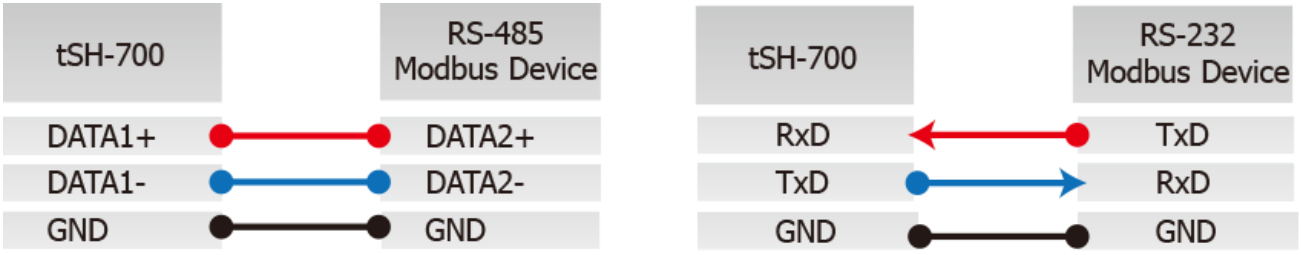
Install eSearch Utility, which can be obtained from the web site:

https://www.icpdas.com/en/download/show.php?num=1327&nation=US&kind1=&model=&kw=esearch

3 Connecting the Master and Slave Devices

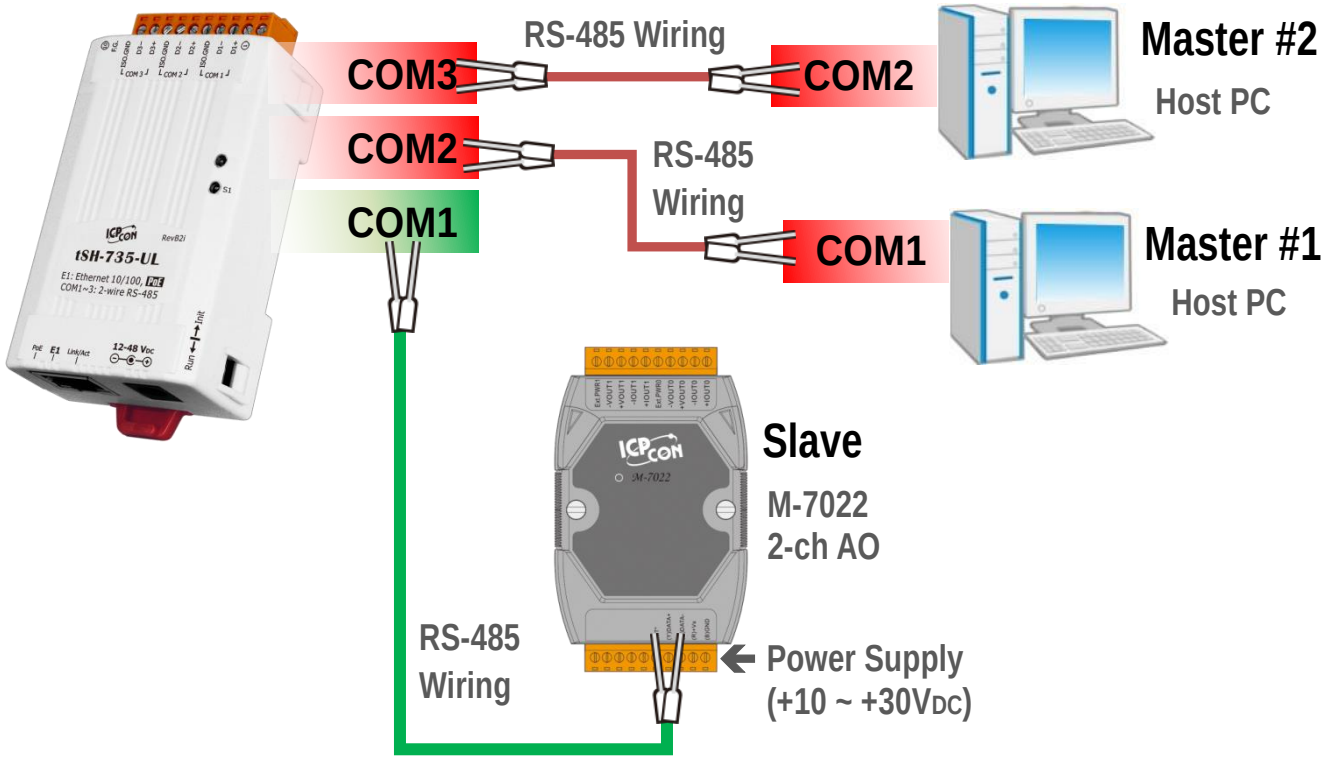
1) Connect the serial port of 2 PC (Master) to COM2/COM3 of the tSH-73x-UL (e.g., tSH-735-UL).

2) Connect the Modbus device (Slave, e.g., M-7022, optional) to COM1 on the tSH-73x-UL (e.g., tSH-735-UL).



3) Supply power (+10 ~+30 V_{DC}) to the Modbus device (e.g., M-7022, Device ID: 1)

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

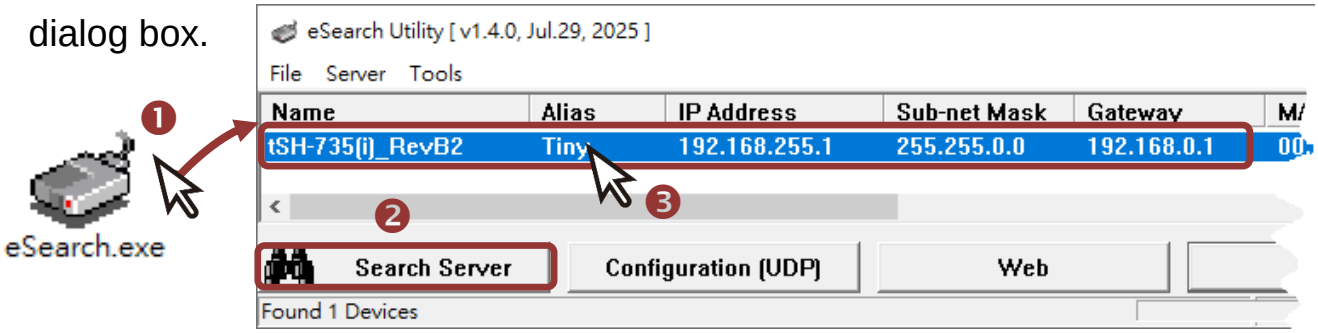


4 Configuring Network Settings

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

2) Click the **"Search Servers"** button to search your tSH-73x.

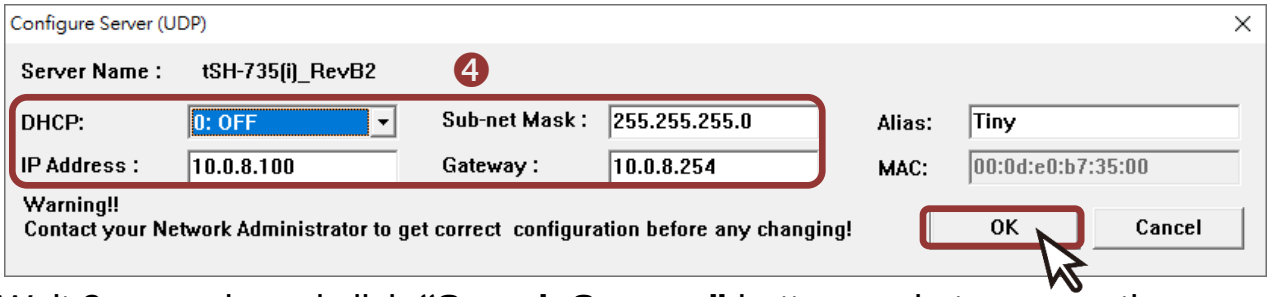
3) Double click the name of tSH-73x to open the "**Configure Server (UDP)**" dialog box.



Factory Default Settings of tSH-73x:

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

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 tSH-73x will use the new settings 2 seconds later.**

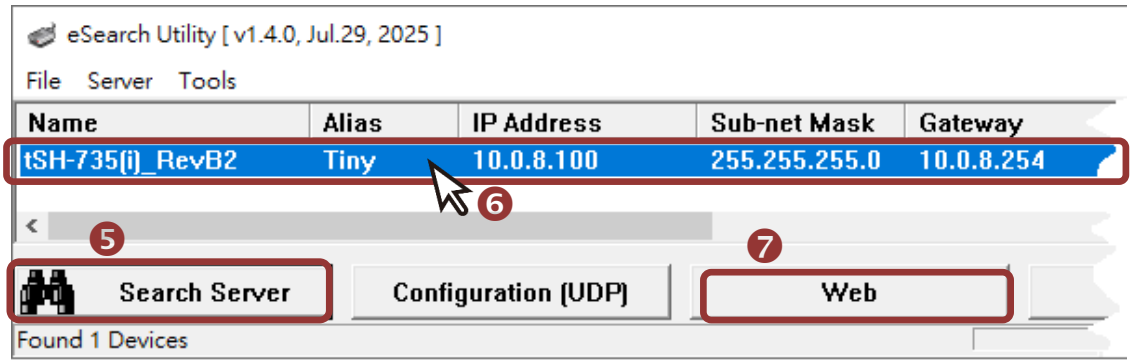


5) Wait 2 seconds and click **"Search Servers"** button again to ensure the tSH-73x is working well with new configuration.

6) Click the name of tSH-73x to select it.

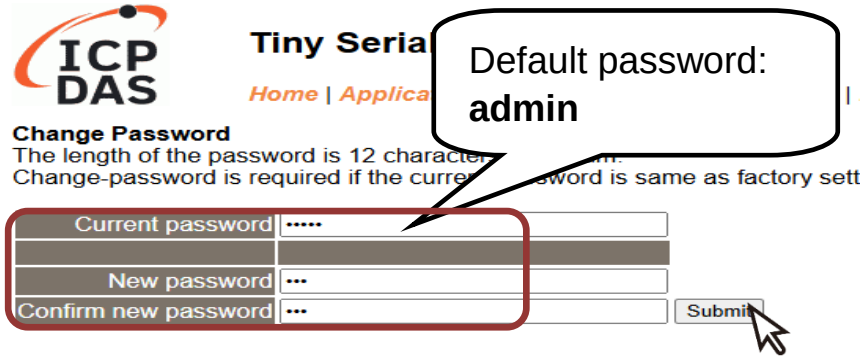
7) Click the **"Web"** button to log in to the web configuration pages.

(Or enter the URL address of the tSH-73x in the address bar of the browser.)

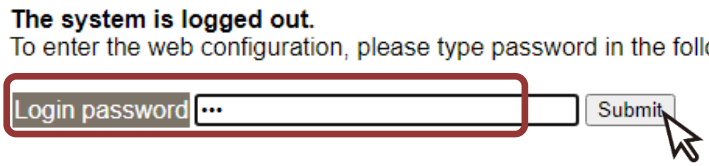


5 Configuring the Application Mode

1) For the first time using the module, you have to change the password and click the **"Submit"** button.



2) Enter the new password in the "Login password" field and click the **"Submit"** button.

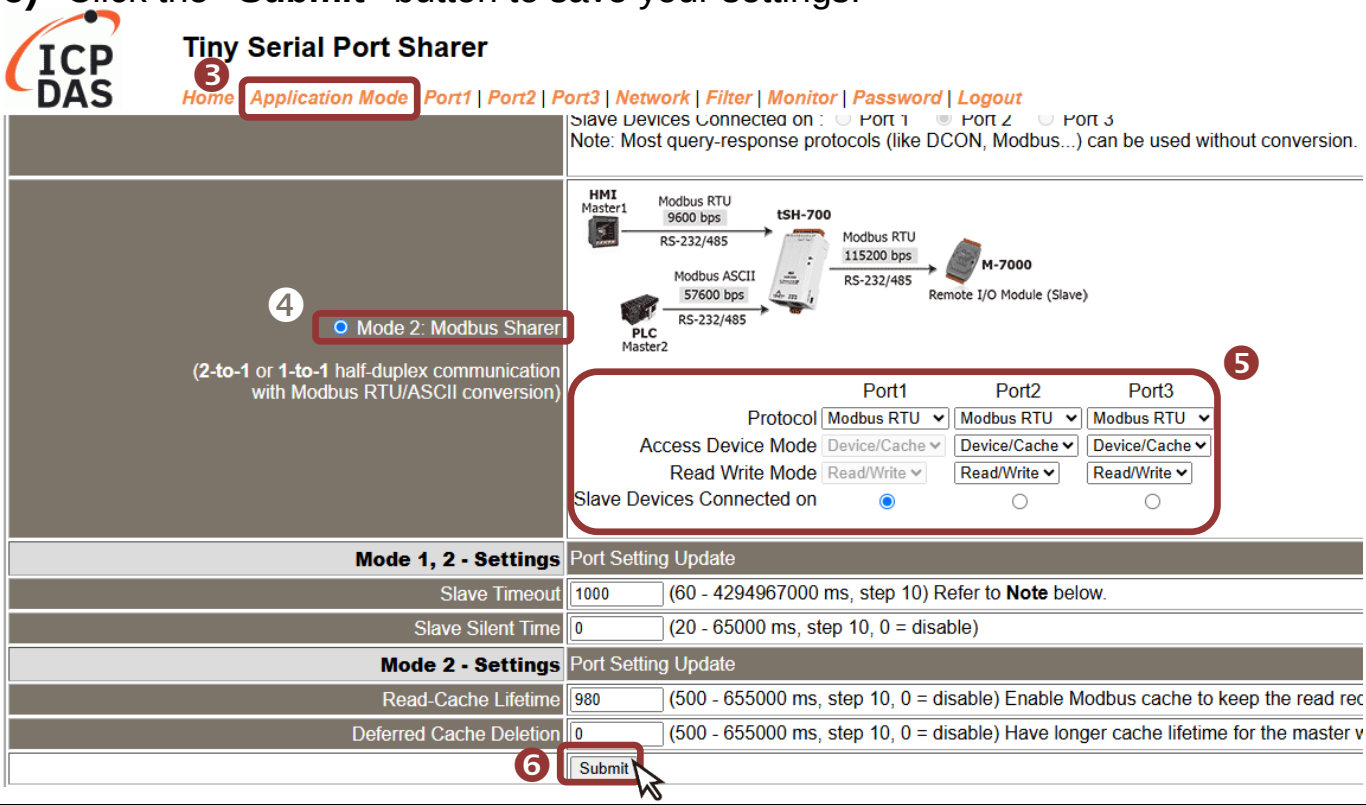


3) Click the **"Application Mode"** tab to display the **Application Mode Settings** page.

4) Check the **"Mode 2: Modbus Converter"** option.

5) Select the M-7022 (slave device) connected to COM port of the tSH-73x **(e.g. "Port1")** from the **"Slave Device Connected on:"** option button.

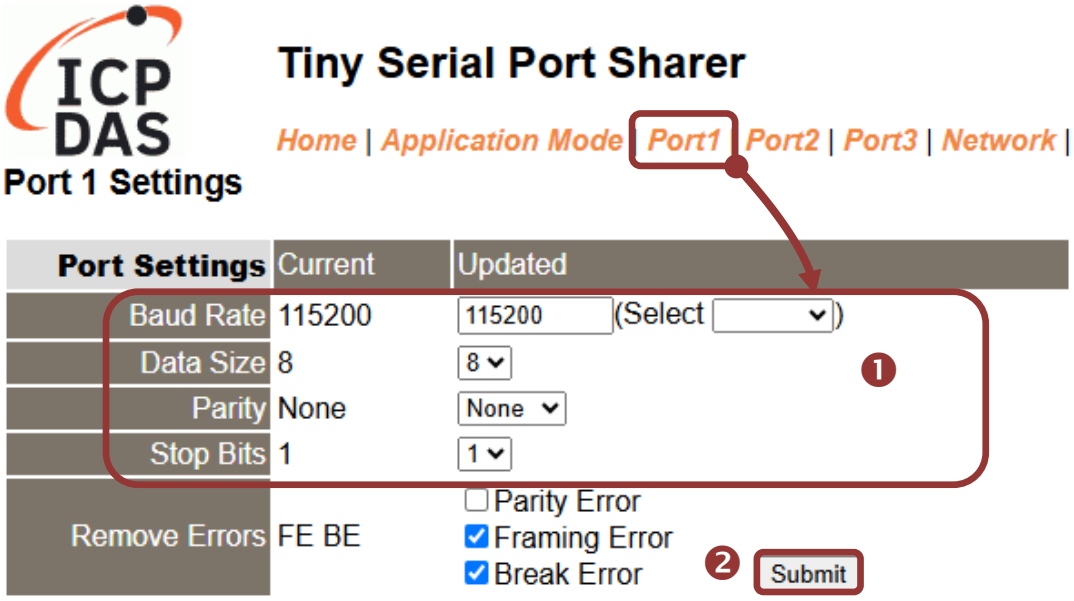
6) Click the **"Submit"** button to save your settings.



6 Configuring the Serial Port

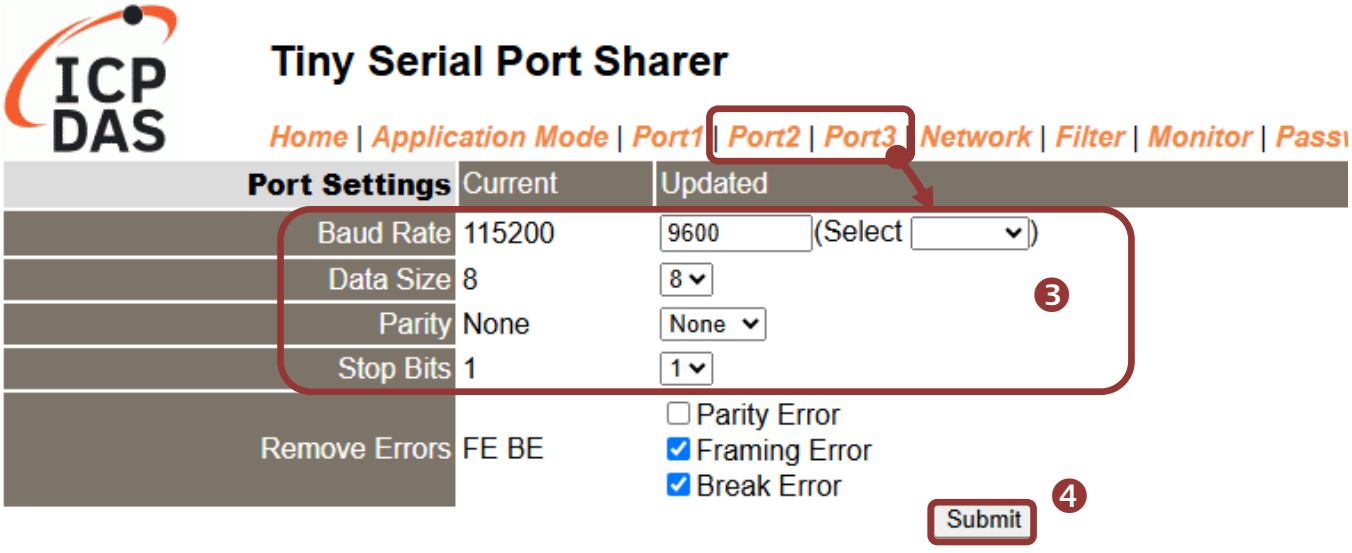
1) Click the **"Port1"** tab and select the appropriate **Baud Rate and Data Format** settings depending on the M-7022 (Slave) from the relevant drop down options. **(e.g. Baud Rate: 115200 and Data Format: 8, None, 1)**

2) Click the **"Submit"** button to save your settings.



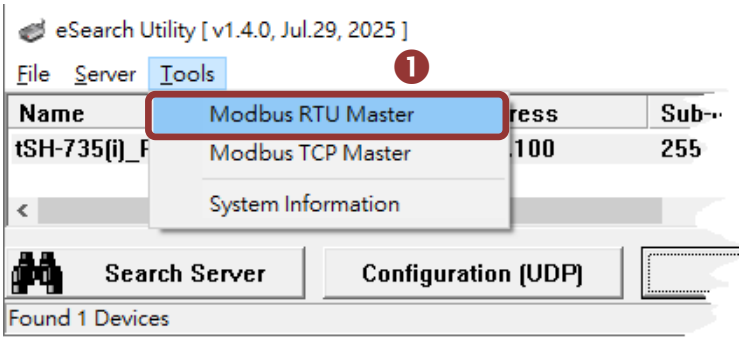
3) Click the **"Port2/Port3"** tab and select the appropriate **Baud Rate and Data Format** settings depending on the serial COM Port of PC (Master #1/Master #2) from the relevant drop down options. **(e.g. Baud Rate: 9600 and Data Format: 8, None, 1)**

4) Click the **"Submit"** button to save your settings.



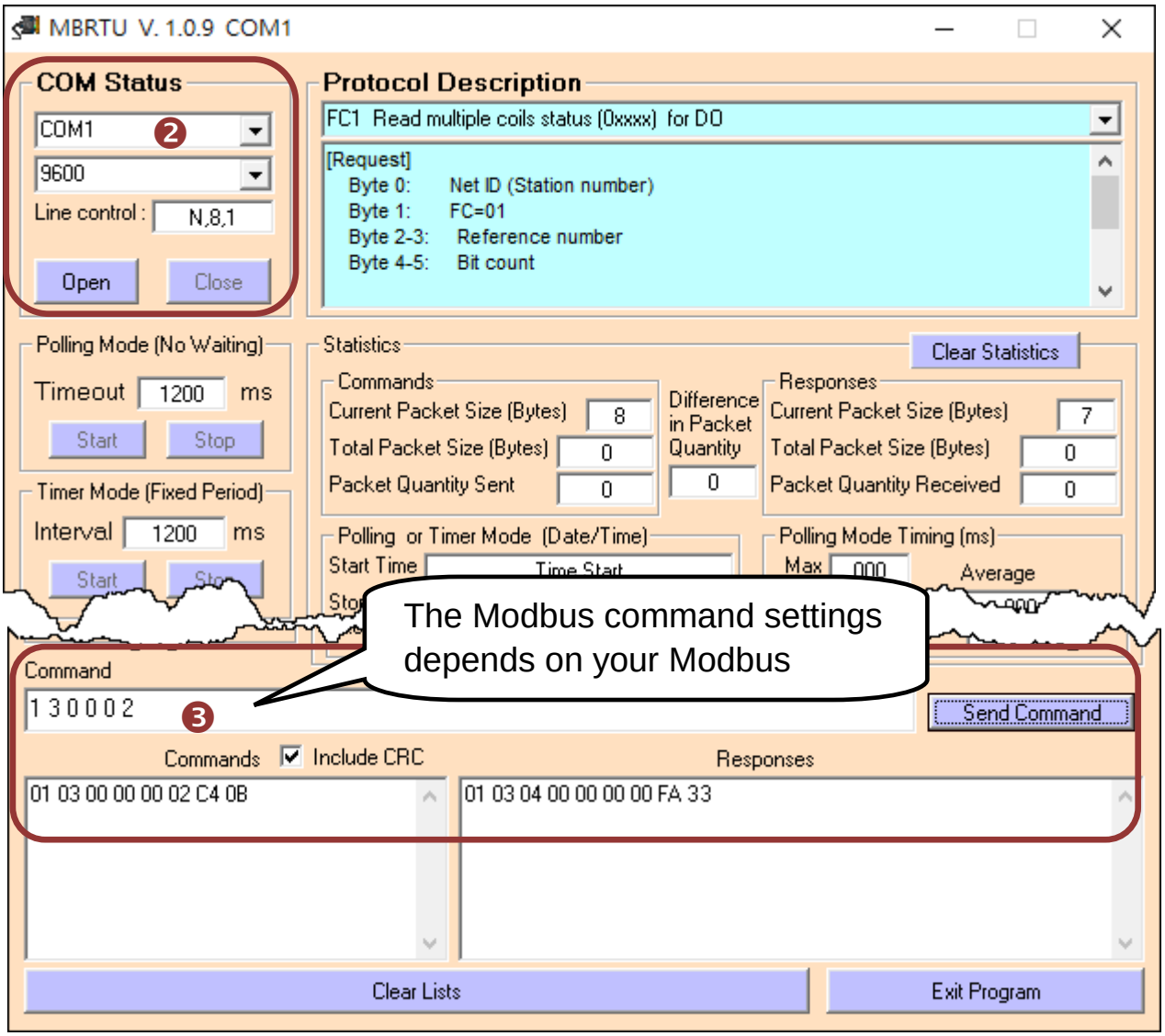
7 Self-Test

1) **In the eSearch Utility**, select the **"Modbus RTU Master"** item from the **"Tools"** menu to open the Modbus RTU Master Utility.



2) In the Modbus RTU Modbus Utility, select your COM port, Baud Rate and Data Format (e.g. **COM1/9600/N,8,1**) on the PC (Master) and then click the "**Open**" button in the **"COM status"** section.

3) Refer to "**Protocol Description**" section and type the command in the **"Command"** field then click the **"Send command"** button. If the response data is correct, it means the test is success.



Safety Instructions Consigns

To prevent possible electrical shock, fire, or personal injury and for safe operation of the product:

1. Power Supply

- Use only with the voltage and frequency specified on the product label.

2. Important Notes on Operating Environment

- Disconnect the power and network cables during thunderstorms to prevent damage.
- Do not use the product around explosive gas, vapor, or in damp or wet environments.

3. Ventilation and Cooling

- Do not block ventilation openings; ensure adequate space around the device for heat dissipation.

4. Avoid Liquid Contact

- This product is not waterproof; keep it away from liquids and humid environments.

5. Maintenance and Service

- Do not attempt to disassemble or repair the device.
- Do not use the product if it is damaged or operates incorrectly. Contact service centers.

6. Warranty Limitation

- Damages resulting from failure to follow safety instructions are not covered under warranty.
- This product is covered by a limited warranty according to the ICP DAS official warranty policy.

Contact Information

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