Quick Start for tSH-735

1 Shipping Package

The package includes the following items:

1 tSH-700/700i Series x1
2 Quick Start x1
3 Software CD x1
4 CA-002 Cable x1

2 Installing Software on Your PC

Install eSearch Utility, which can be obtained from either the companion CD-ROM or the web site:

CD: \NAPDOS\software\eSearch\n
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. Check Init/Run switch is on “Run” position.
3. Connect both the tSH-700 and your PC to the same sub network or the same Ethernet Switch.
4. Supply power (PoE or +12 ~ +48 VDC ) to the tSH-700.
4 Connecting the Master and Slave Devices

1. Connect the serial port of PC (Master) to COM2 on the tSH-700 (e.g., tSH-724).

2. Connect the Modbus device (Slave, e.g., M-7022, optional) to COM1 on the tSH-700 (e.g., tSH-724).

3. Supply power (+10 ~+30 V DC) to the Modbus device (e.g., M-7022, Device ID: 1)
Configuring the Correct Network Settings

1. Double click the eSearch Utility shortcut on the desktop.
2. Click the “Search Servers” button to search your tSH-700.
3. Double click the name of tSH-700 to open the “Configure Server (UDP)” dialog box.

Factory Default Settings for the tSH-700:

- **IP**: 192.168.255.1
- **Gateway**: 192.168.0.1
- **Mask**: 255.255.0.0

4. Contact your Network Administrator to obtain a correct network configuration (such as IP/Mask/Gateway). Enter the network settings and then click “OK”. The tSH-700 will use the new setting 2 seconds later.

5. Wait 2 seconds and then click the “Search Servers” button again to ensure the tSH-700 is working well with new configuration.
6. Click the name of the tSH-700 to select it.
7. Click the “Web” button to log in to the web configuration pages. (Or enter the URL address of the tSH-700 in the address bar of the browser.)
Configuring the Application Mode

1. Enter the password (use the default password “admin”) in the Login password field and click the “Submit” button.

2. Click the “Application Mode” tab to display the Application Mode Settings page.

3. Check the “Mode 2: Modbus Converter” option.

4. Select the M-7022 (slave device) connected to COM port of the tSH-700 (e.g. “Port1”) from the “Slave Device Connected on:” option button.

5. Enter the timeout value of the Port1 (e.g. “500”) in the “Slave Timeout (ms)” field and click the “Submit” button to save your settings.
Configuring the Serial Port

1. Click the “Port1” tab to display the Port1 Settings page.

2. Select the appropriate Baud Rate and Data Format settings depending on the serial COM Port of PC (Master) from the relevant drop down options. \(\text{(e.g. Baud Rate: 9600 and Data Format: 8N1)}\)

3. Click the “Submit” button to save your settings.

4. Click the “Port2” tab to display the Port2 Settings page.

5. Select the appropriate Baud Rate and Data Format settings depending on the M-7022 (Slave) from the relevant drop down options. \(\text{(e.g. Baud Rate: 115200 and Data Format: 8N1)}\)

6. Click the “Submit” button to save your settings.
**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.

Please ensure that the Timeout value in the above window should larger than the Slave timeout setting in the tSH-700/700i module.
Successful Testing

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.

Related Information

- **tSH-735 product page:**
  [https://www.icpdas-usa.com/tsh_735.html](https://www.icpdas-usa.com/tsh_735.html)

- **Documentation:**
  CD: \Napdos\tSH-700\Document

- **Firmware:**
  CD: \Napdos\tSH-700\Firmware