Serial to Ethernet Converter

HL-SE02P-V1

User's Manual

CE FC RoHS

V3.606

Contents Table

Welcome

HL-SE02P-V1 – 2 Port Serial to Ethernet converter is designed to offer high speed, reliable and cost-effective network communication for multiple serial devices. It will allow you to easily network enable your existing RS-232/422/485 serial devices over a TCP/IP-based Ethernet and supported Full TDD (Time Division Duplex) serial to Ethernet communication.

■ Package Contents

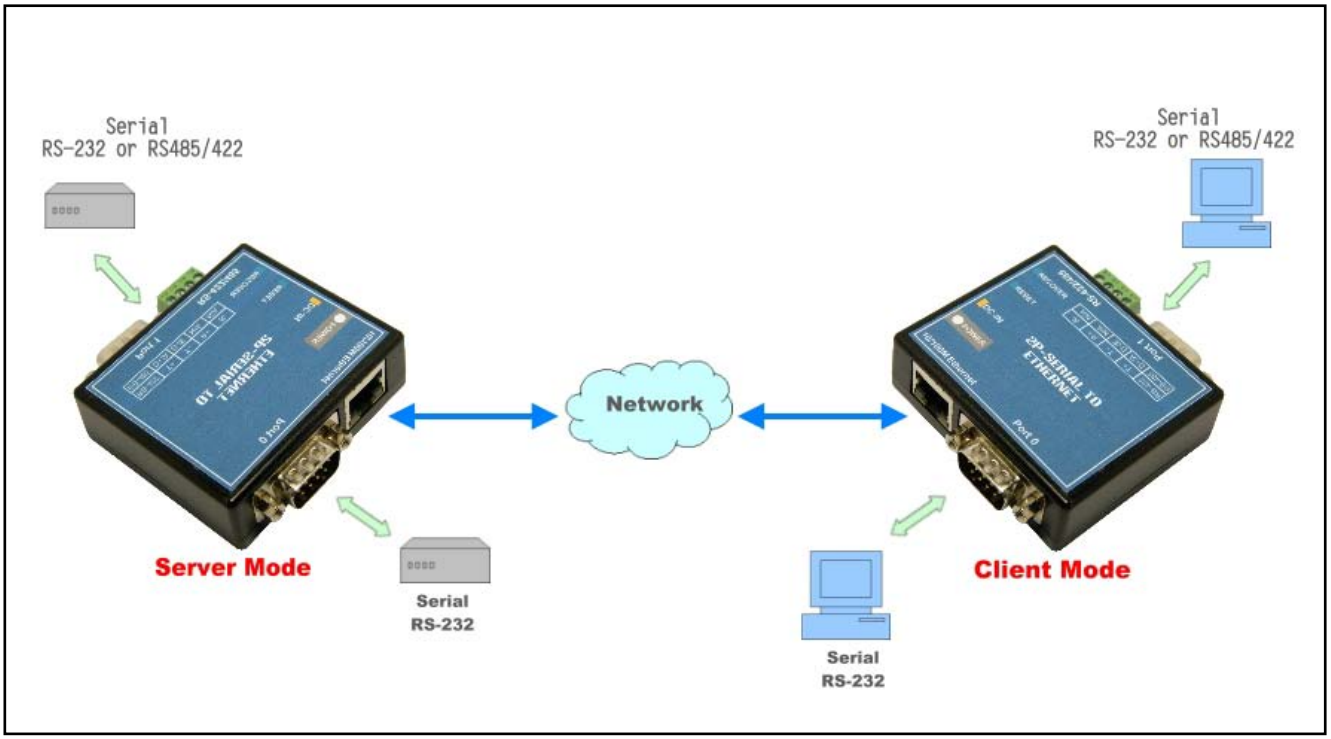
- HL-SE02P-V1 – 2 Port Serial to Ethernet Converter x 1
- 5V-DC USB Power Adapter x 1
- USB Power Cable x 1
- User's Manual x 1

■ Feature

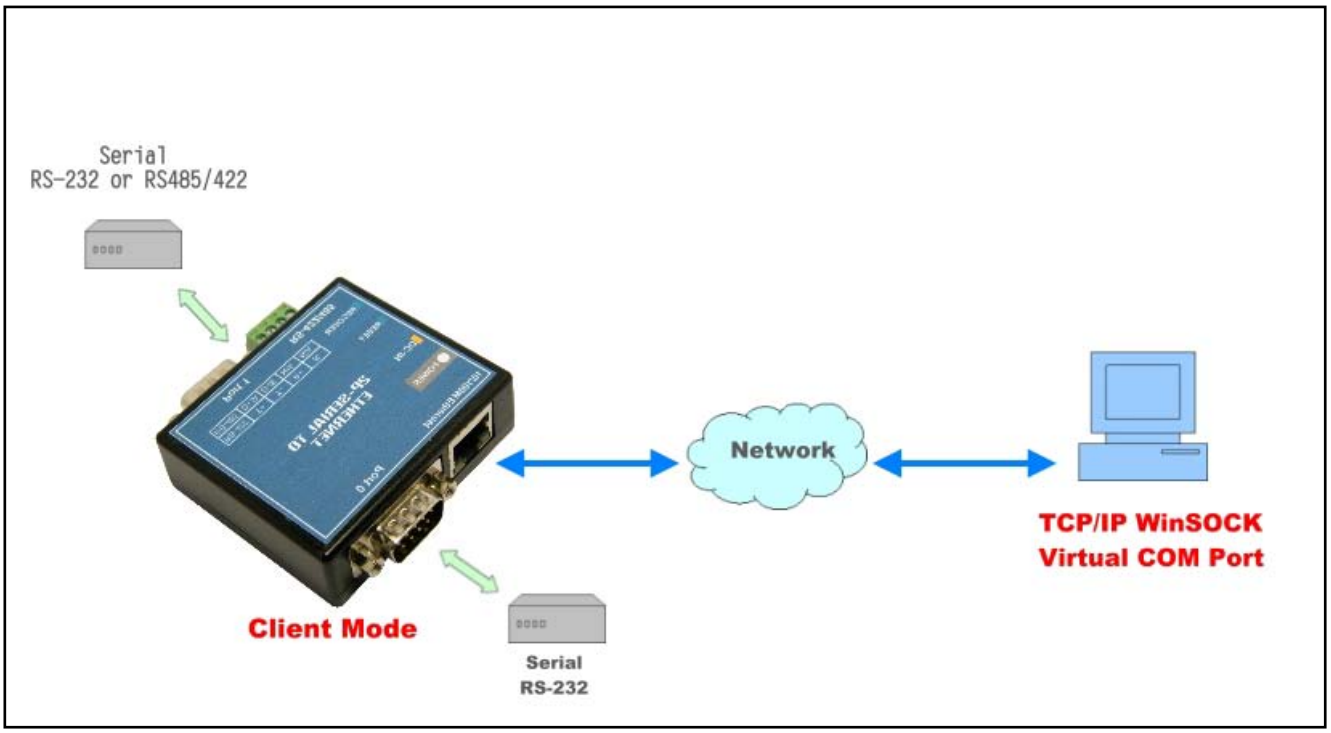
- Mini size design: 65*67*21 mm.
- 32-Bit ARM7 CPU.
- Build-in WEB-Based Configuration.
- Support UPnP (Universal Plug and Play)
- 10/100 Mbps Auto-Sensing Ethernet Interface.
- Support TCP-Server, TCP-Client Auto-Connect Mode.
- Support WinSock Protocol
- At Client-Server Mode, Client-device will auto-connect to Server-device.
- Support 2 serial devices through an Ethernet networking simultaneously.
- Support RS-232/422/485 Interface.
- Support Standard WinSock (Program Writing "Call MSCOMM.OCX")
- Support Hardware Flow Control : CTS / RTS
- Support Parity : None , Odd , Even , Mark , Space
- Support Stop Bit : 1 , 2
- Support Data Bit : 5 , 6 , 7 , 8
- Baud Rate up to 1024000bps = 1Mbit/Sec.
- Port 0 - Baud Rate:
  110/300/600/1200/2400/4800/9600/14400/19200/38400/57600/115200/230400bps
- Port 1 - Baud Rate:
  110/300/600/1200/2400/4800/9600/14400/19200/38400/57600/115200/230400/460800/1024000bps

■ Application

>> Implementing a Serial Extender over Ethernet



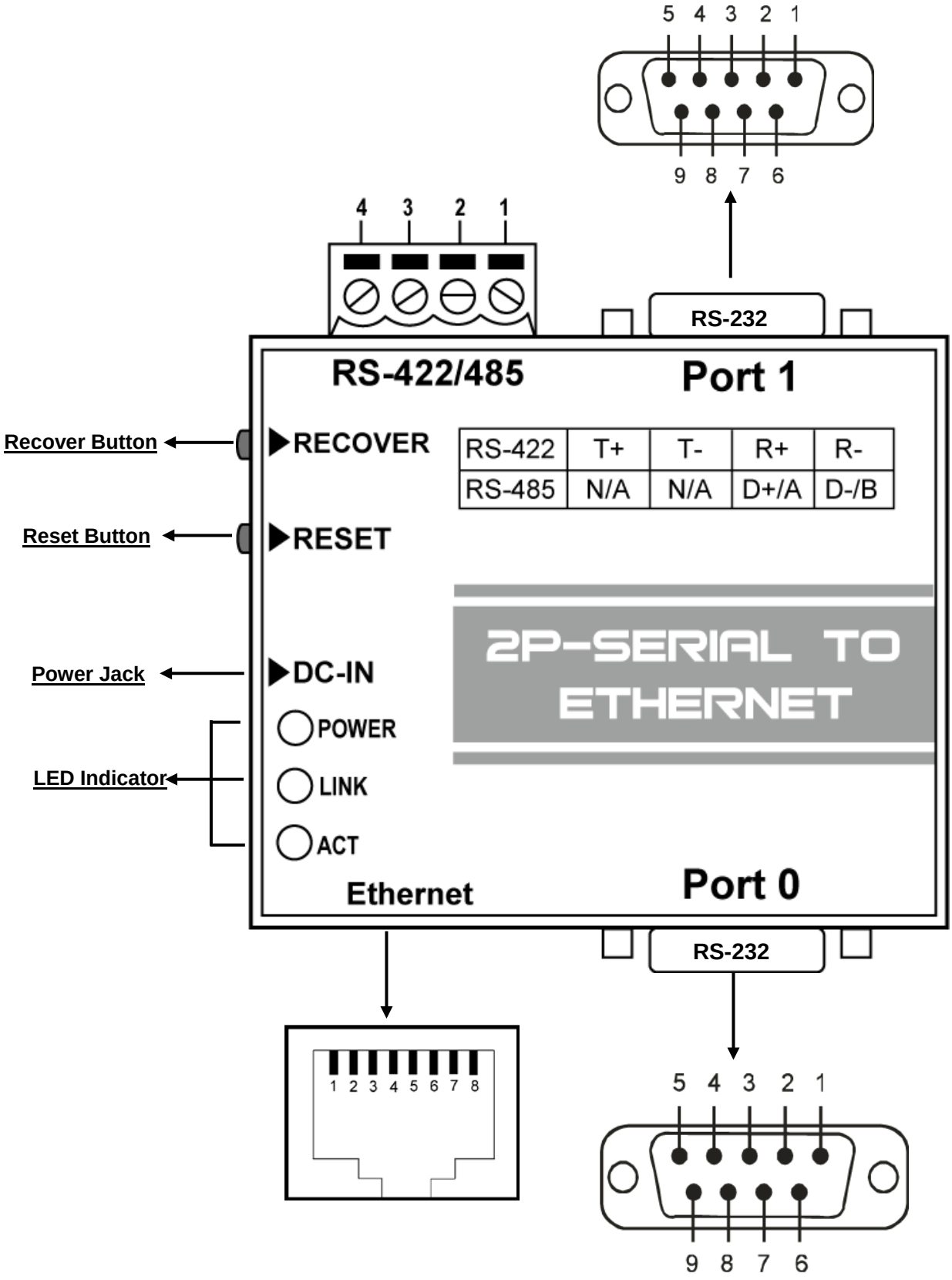
>> Using Serial-to-Ethernet as a Virtual COM



■ Specification

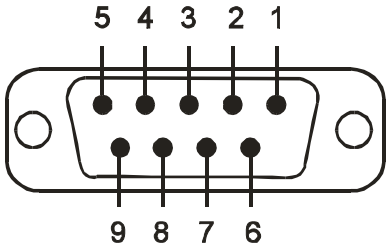
Model Name	**HL-SE02P-V1**	
Network Interface		
Connector	**RJ45**	
Interface	**Ethernet 10Base-T or 100Base-TX (Auto-Sensing)**	
Setup	**HTTP Browser Setup**	
Mode	**TCP Server/TCPIP Client /UDP Client**	
Protocols	**ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, Telnet**	
Serial Interface		
Port 0	**RS-232 D-SUB 9-pin Connector**	
Port 0 Data Rates	**Up to 230,400 bits/sec**	
Port 1	**RS-232 D-SUB 9-pin Connector**	**RS-422/485 Terminal Connector**
Port 1 Data Rates	**Data rate up to 1 Mbit/sec.**	**Data rate up to 115200**
Data Bit	**7 or 8**	
Stop Bits	**1 or 2**	
Parity	**None, Odd, Even**	
Flow Control	**RTS/CTS**	
Current Consumption	**Max. 145 mA**	
Input Voltage	**5V DC**	
Operating Temperature	**0 ~ +60℃**	
Storage Temperature	**-10 ~ +70℃**	
RoHS	**Compliant with RoHS**	
Dimensions	**65*67*21(H)mm**	

■ Hardware Guide



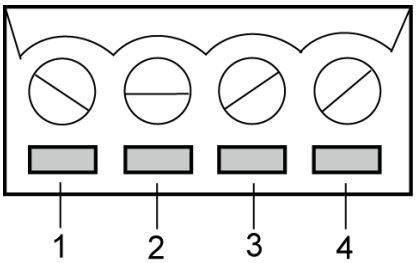
■ Pin Assignments

➢ **Port 0 & Port 1 - RS-232 DB9**



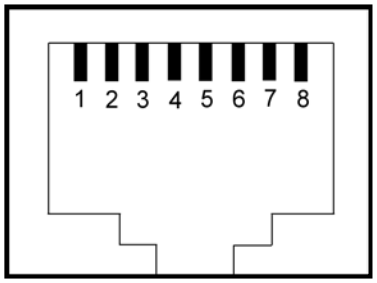
Pin	Signal	Direction	
2	TxD	Output	Transmitted data
3	RxD	Input	Received data
5	Gnd	N/A	Signal ground
7	CTS	Input	Clear to send
8	RTS	Output	Request to send
9	Vcc	Input	N/A

➢ **Port 1 - RS-422/485**



Terminate	RS-422 Mode	RS-485 Mode
Pin 1	R-	D-/B
Pin 2	R+	D+/A
Pin 3	T-	N/A
Pin 4	T+	N/A

➢ **Ethernet Port**



Pin	Signal	Direction	Line Color
1	TX+	Output ←	White Orange
2	TX-	Output ←	Orange
3	RX+	Input →	White Green
6	RX-	Input →	Green

■ Factory Default Value

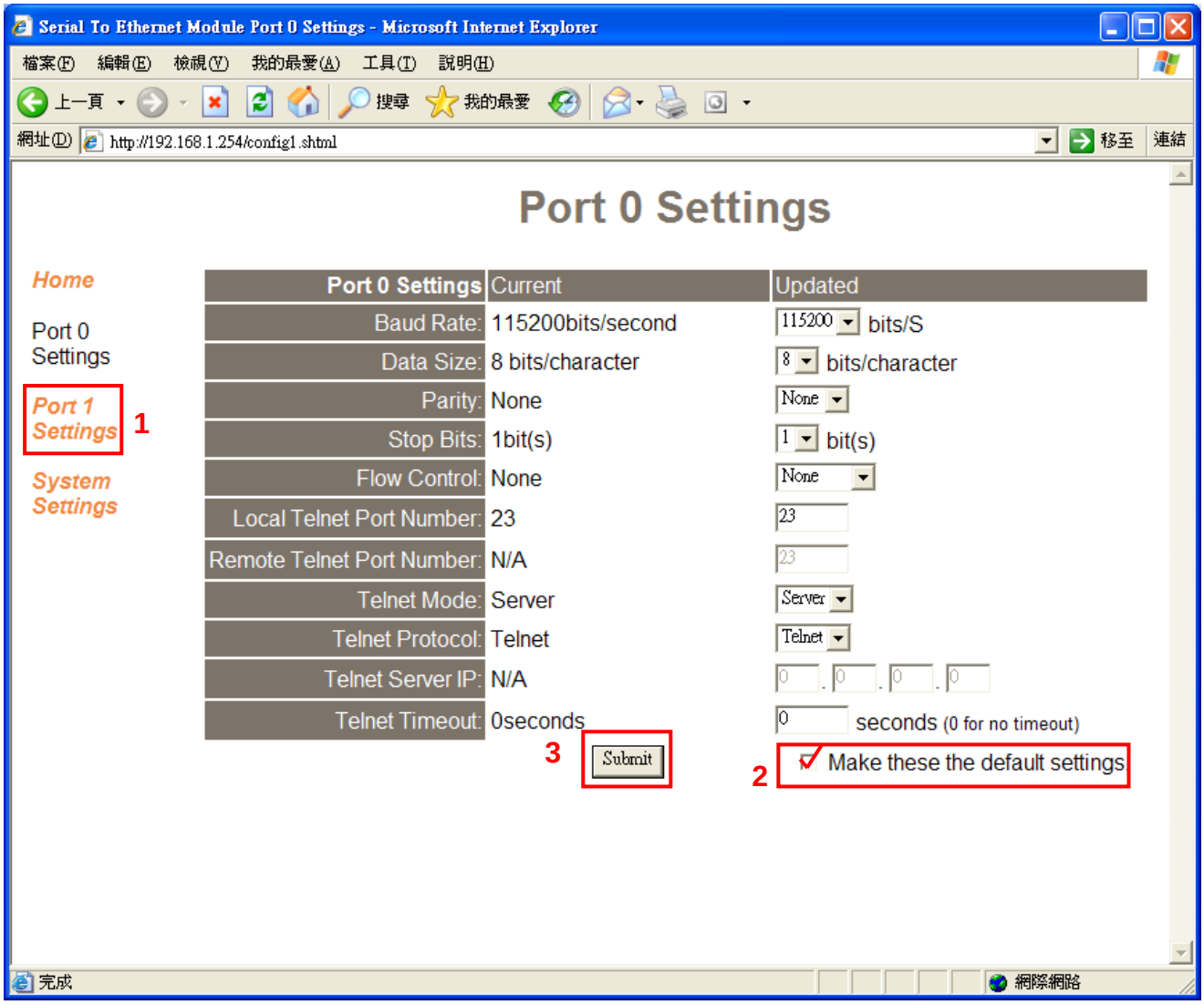
- Default Device name : **S2E**
- Default IP Address : **192.168.1.254**
- Default IP Subnet Mask : **255.255.255.0**
- WEB-Based Configuration : **http://192.168.1.254**
- Default Password : **123456**

Configuration

Please see the setup guide for setup, configuration and use.

- **Port 0 - Setting**

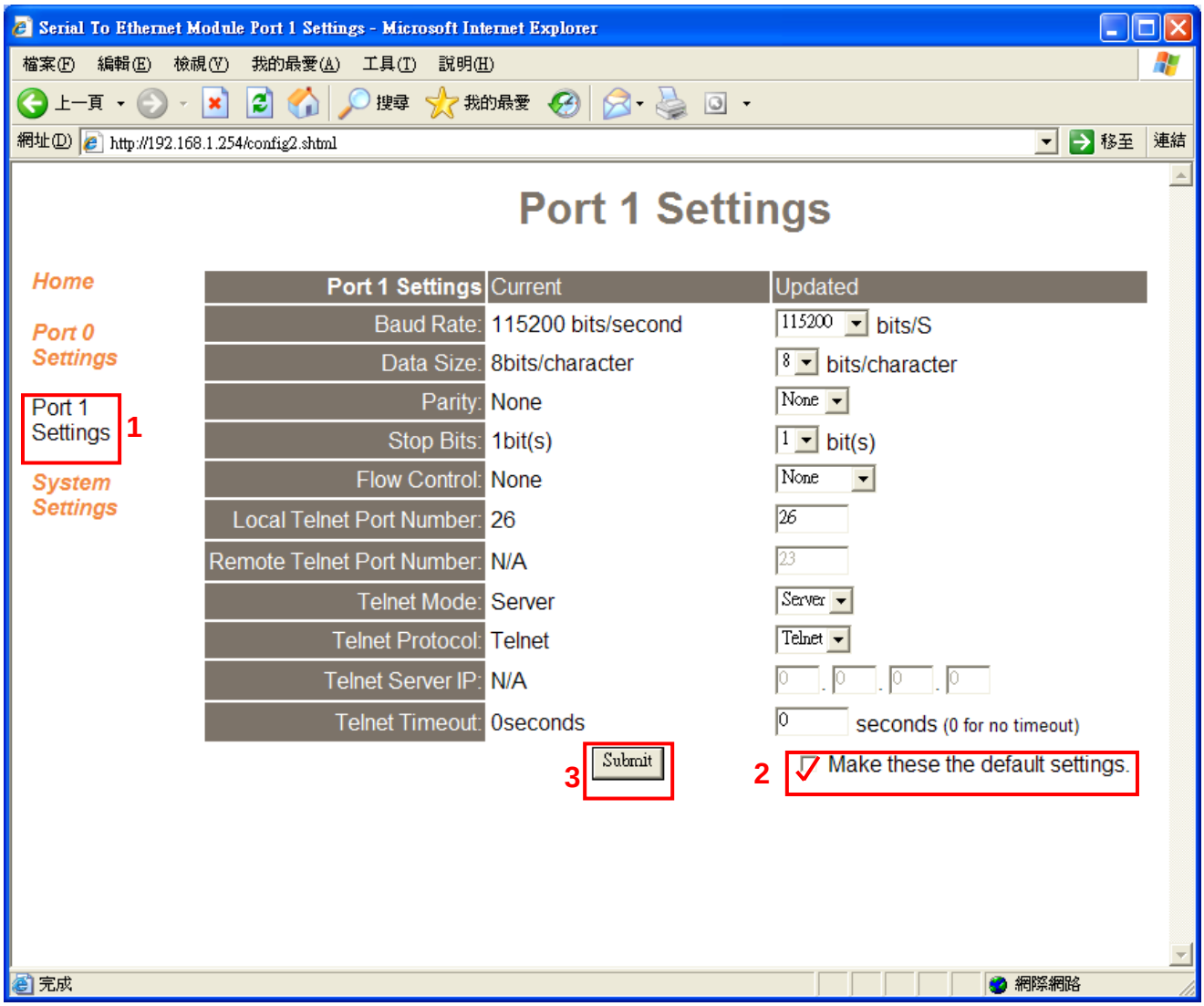
  Click the **"Port 0"** to change RS-232 parameters as you need.
  After parameters changed, you must select **"Make these the default settings"** then press **"Submit"** button then your new setting just will work successful.


Serial To Ethernet Module Port 0 Settings - Microsoft Internet Explorer
檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)
上一頁 搜尋 我的最愛
網址(D) http://192.168.1.254/config1.shtml
移至 連結
Port 0 Settings
Home
Port 0 Settings
Port 1 Settings
1
System Settings
Port 0 Settings
Current
Updated
Baud Rate: 115200bits/second
115200 bits/S
Data Size: 8 bits/character
8 bits/character
Parity: None
None
Stop Bits: 1bit(s)
1 bit(s)
Flow Control: None
None
Local Telnet Port Number: 23
23
Remote Telnet Port Number: N/A
23
Telnet Mode: Server
Server
Telnet Protocol: Telnet
Telnet
Telnet Server IP: N/A
Telnet Timeout: 0seconds
0 seconds (0 for no timeout)
3
Submit
2
Make these the default settings
完成
網際網路

➢ Port 1 – Setting

Click the **"Port 1"** to change Serial parameters as you need.

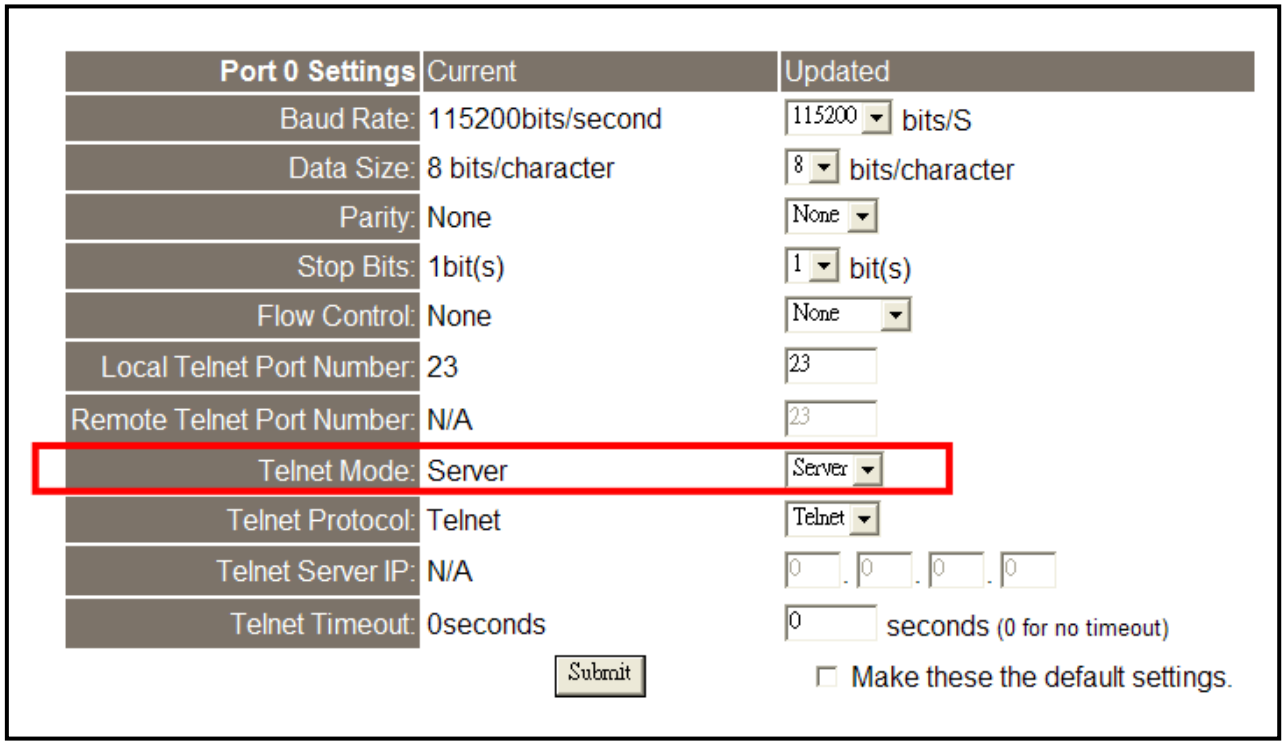
After parameters changed, you must select **"Make these the default settings"** then press **"Submit"** button then your new setting just will work successful.



➢ Server Mode

Factory default Telnet mode is Server mode and waiting for link.

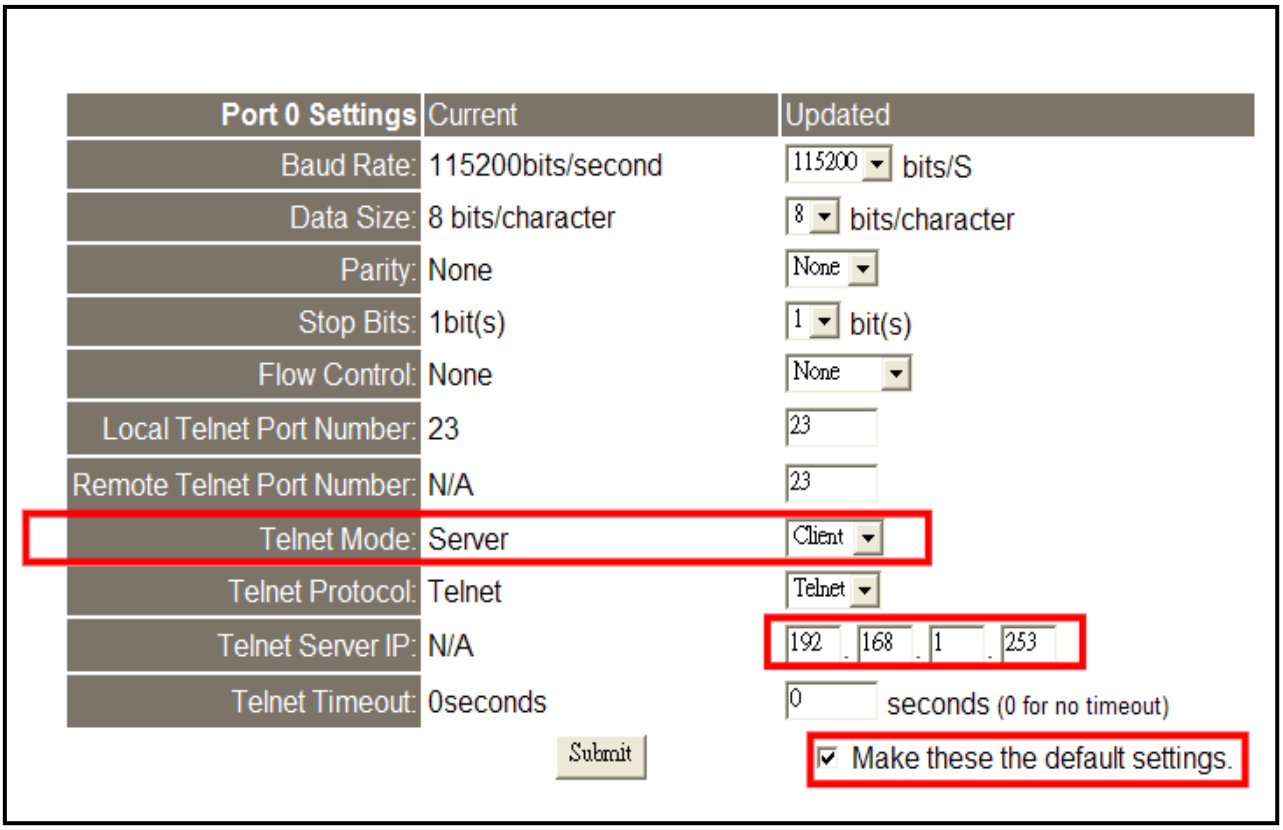
Client device is able link Server by **WinSock** or **Hyper Terminal**



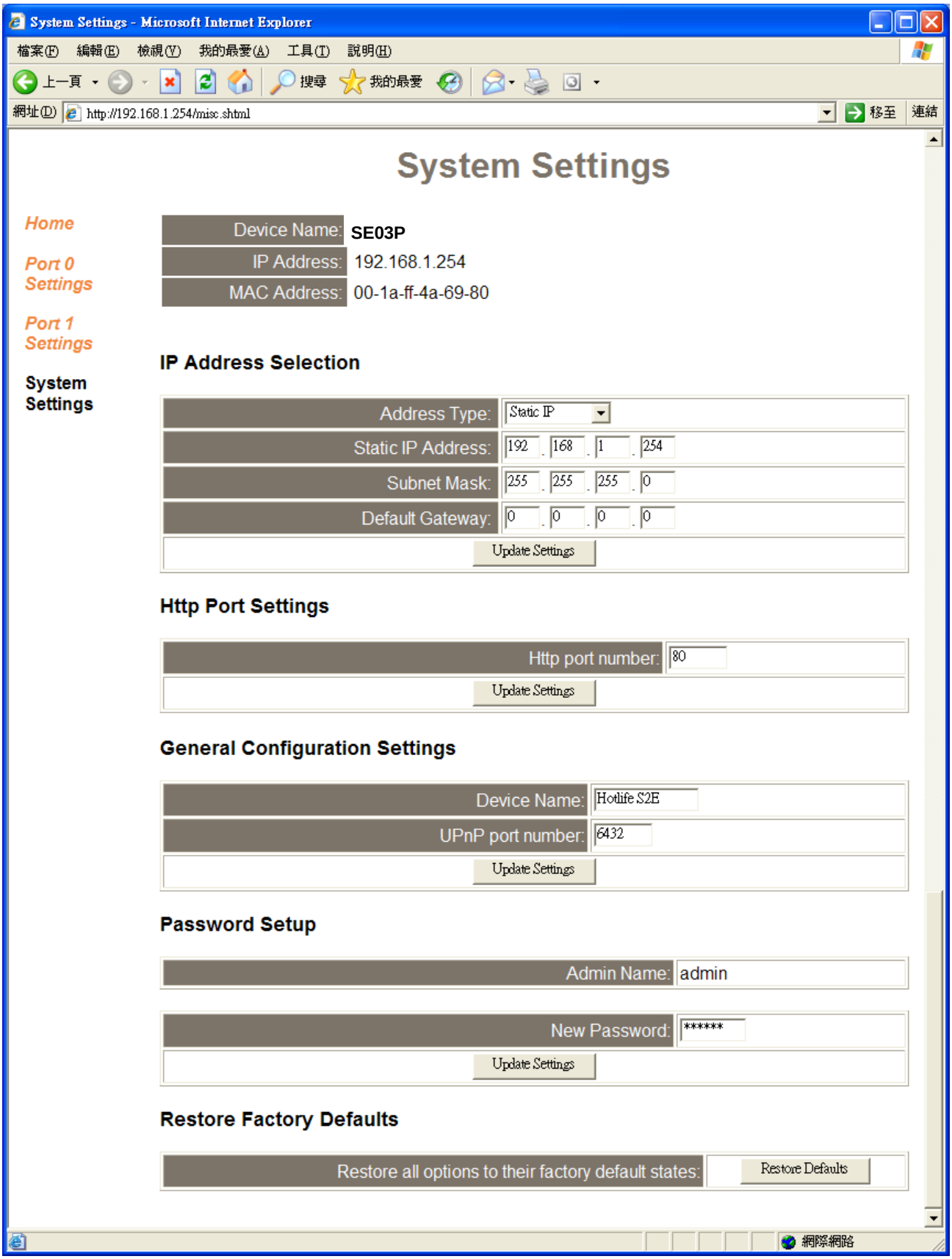
➢ Client Mode

Telnet Client mode supports **Auto-Connect** to Server device and you must type **Server IP address** in Client Serial parameters setting first.

After parameters changed, you must select **"Make these the default settings"** then press **"Submit"** button then your new setting just will work successful.



➢ System Setting



- **Hardware Recover Factory Default**

1. Turn off power.
2. Keep press "Recover" button of HL-SE02P-V1 then turn on power after 5 seconds take your hand off Recover button then HL-SE02P-V1 will become factory default value.

■ Warranty Policy

1. This device is guaranteed against manufacturing defects for one full year from the original date of purchase.
2. This warranty is valid at the time of purchase and is non-transferable.
3. This warranty must be presented to the service facility before any repair can be made.
4. Sales slip or other authentic evidence is required to validate warranty.
5. Damage caused by accident, misuse, abuse, improper storage, and/or uncertified repairs is not covered by this warranty.
6. All mail or transportation costs including insurance are at the expense of the owner.
7. Do not send any product to service center for warranty without a RMA (Return Merchandise Authorization) and proof of purchase. Ensure a trackable method of delivery is used (keep tracking number).
8. Warranty is valid only in the country of purchase.
9. We assume no liability that may result directly or indirectly from the use or misuse of these products.
10. **This warranty will be voided if the device is tampered with, improperly serviced, or the security seals are broken or removed".**