Serial to Ethernet Converter

2-Port Serial RS-232

User's Manual

V3.606

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Welcome

2-Port Serial RS-232 to Ethernet Converter is designed to offer the high speed, reliable and cost-effective network communication for multiple serial devices to Internet networking instantly. It's easily network your current RS-232 serial devices over a TCP/IP-based Ethernet and supported Full TDD (Time Division Duplex) serial to Ethernet communication.

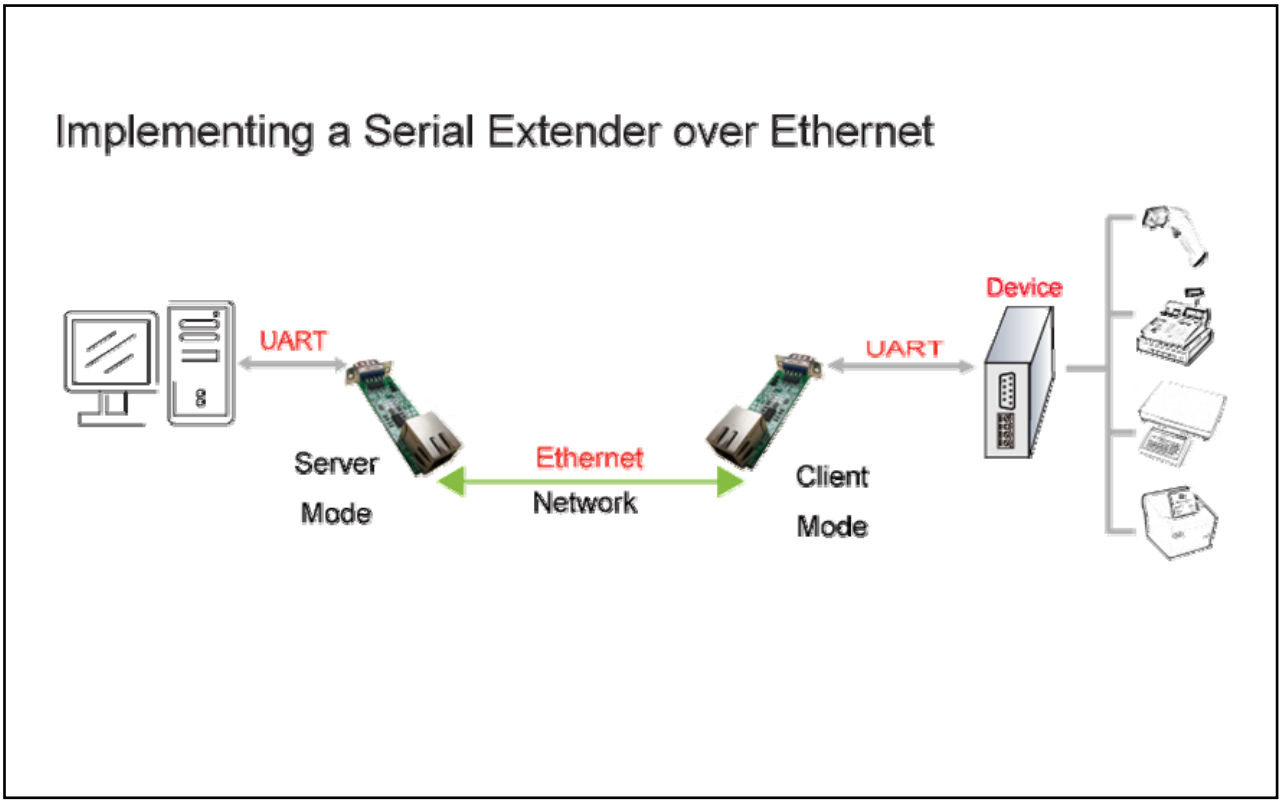
■ Package Contents

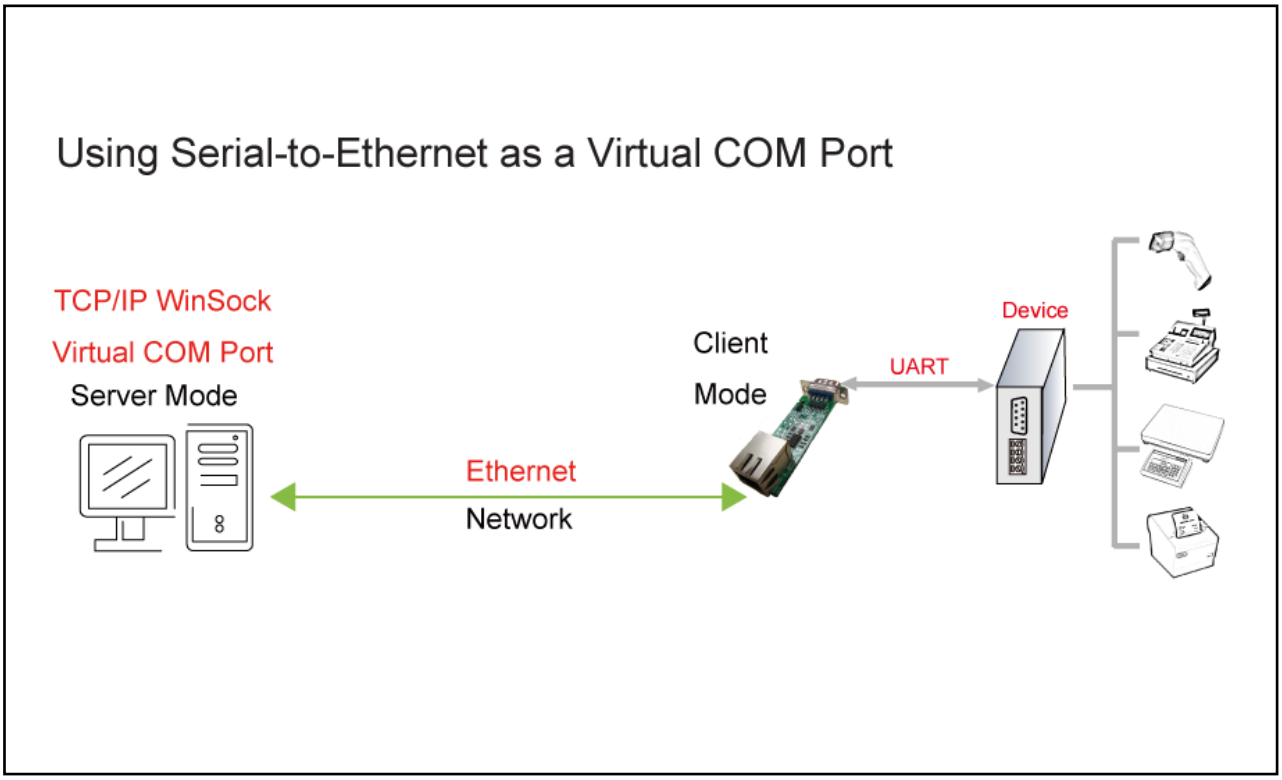
- 2-Port Serial RS-232 to Ethernet Converter x 1
- 5V-DC USB Power Adapter x 1
- USB Power Cable x 1
- User's Manual x 1

■ Feature

- Mini size design: 77 x 31 x 17 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 **1-Port RS-232** & **1-Port TTL232** serial devices through an Ethernet networking at the same time.
- 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

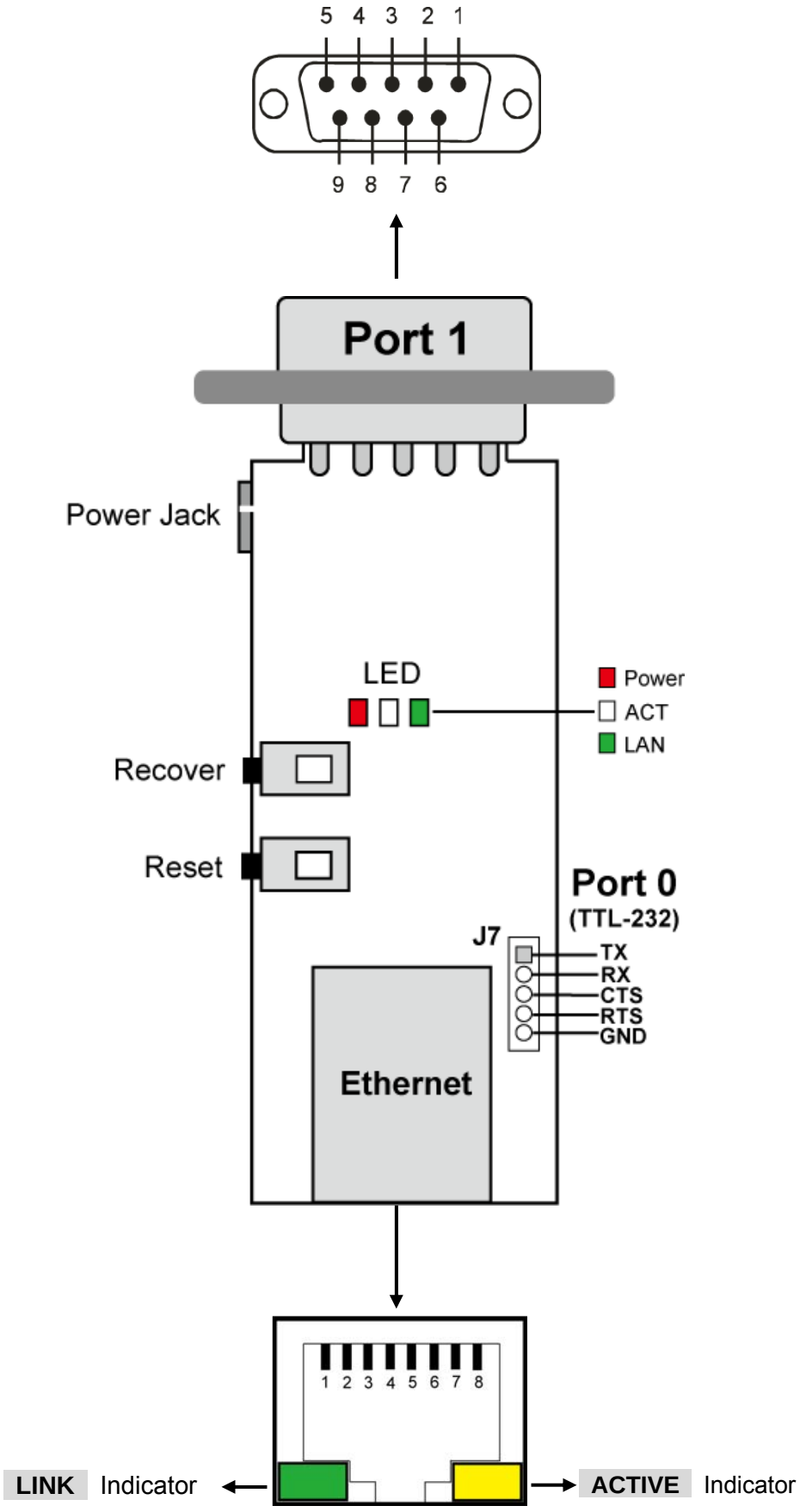




■ Specification

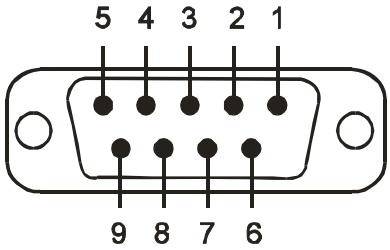
Description	**2-Port Serial RS-232 to Ethernet Converter**
Network Interface	
Connector	**RJ45**
Interface	**Ethernet 10Base-T or 100Base-TX (Auto-Sensing)**
Setup	**HTTP Browser Setup**
Mode	**TCP Server/TCPIP Client /UDP Client**
Protocols	**ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, Telnet**
Serial Interface	
Port 0	**UART TTL-232**
Port 0 Data Rates	**Up to 230,400 bits/sec**
Port 1	**RS-232 D-SUB 9-Pin Connector**
Port 1 Data Rates	**Data rate up to 1 Mbit/sec.**
Data Bit	**5 , 6 , 7 , 8**
Stop Bits	**1 or 2**
Parity	**None, Odd, Even, Mark, Space**
Flow Control	**RTS / CTS**
Others	
Current Consumption	**Max. 145 mA**
Input Voltage	**5V DC**
Operating Temperature	**0 ~ +60℃**
Storage Temperature	**-10 ~ +70℃**
RoHS	**Compliant with RoHS**
Dimensions	**71*33*17 mm**

■ Hardware Guide



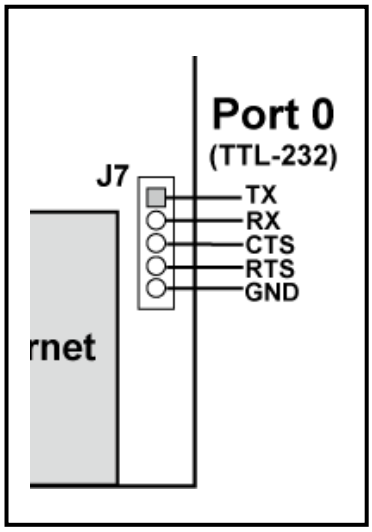
■ Pin Assignments

➢ Port 1 - RS-232 DB9



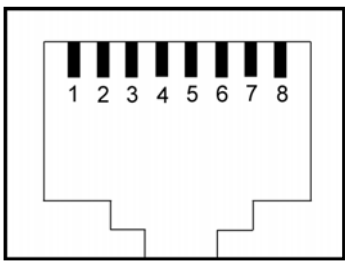
Pin	Signal	Direction	
2	TxD	Output	Transmitted Data
3	RxD	Input	Received Data
5	Gnd	N/A	Signal Ground
7	CTS	Input	Clear to Send
8	RTS	Output	Request to Send
9	Vcc	Input	Power Supply (optional)

➢ Port 0 – TTL 232



Pin		Signal
J7	Pin 1	TX
J7	Pin 2	RX
J7	Pin 3	CTS
J7	Pin 4	RTS
J7	Pin 5	GND

➢ 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

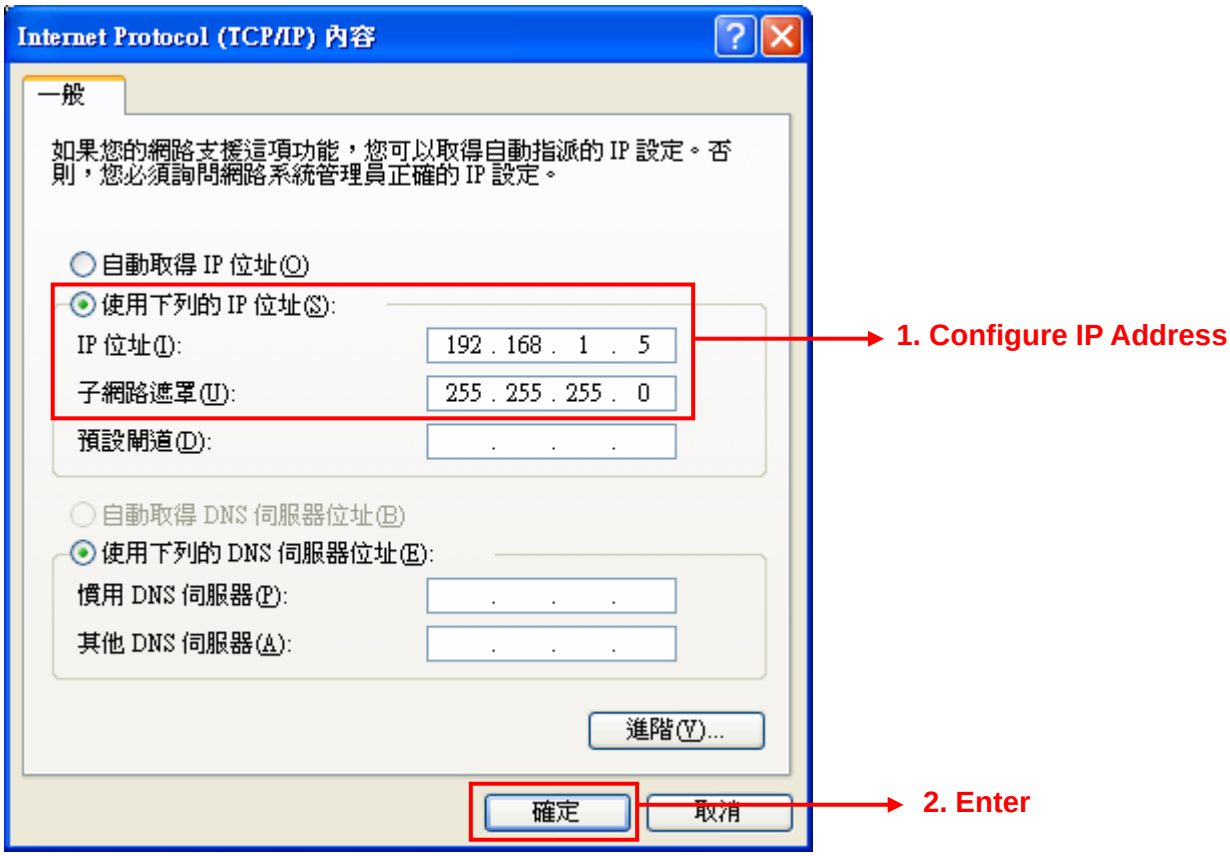
■ Factory Default Value

- Default Device name : **SE02A**
- 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

➢ Preparation

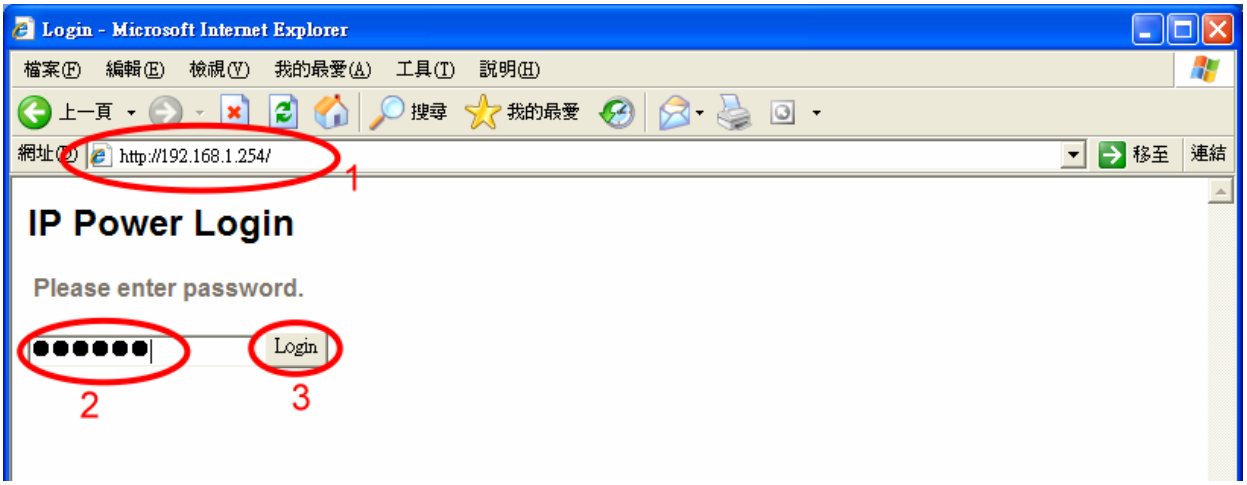
1. **IP Address Setting** - Configure Computer IP address to same as Serial to Ethernet Converter..



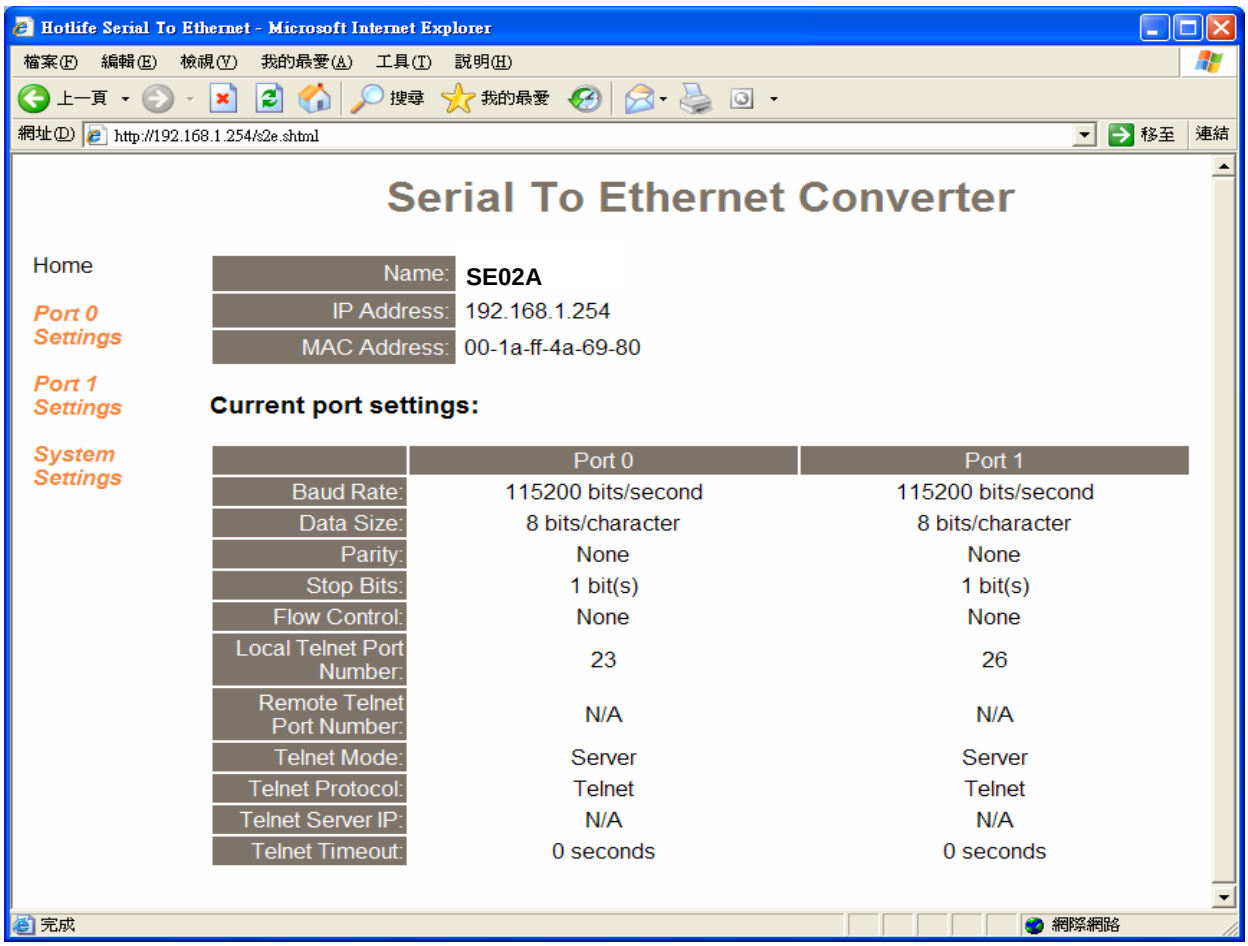
2. **Connecting Power** - Connect power adapter with Power Jack of Serial to Ethernet Converter. If the power is properly supplied then the LED indicator will light and show **"Red"** color.
3. **Connecting Network** - Connect one end of the Ethernet cable to Serial to Ethernet Converter 10/100M Ethernet port and the other end of Ethernet cable to Ethernet network.
4. **Connecting Serial Device** – Connect Serial port of Serial to Ethernet Converter to Serial devices.

➢ Login WEB-Based Configuration

1. Open your browser and link to **http://192.168.1.254**
2. Type the password **** Default Password: 123456 ****
3. Press **"Login"** button.



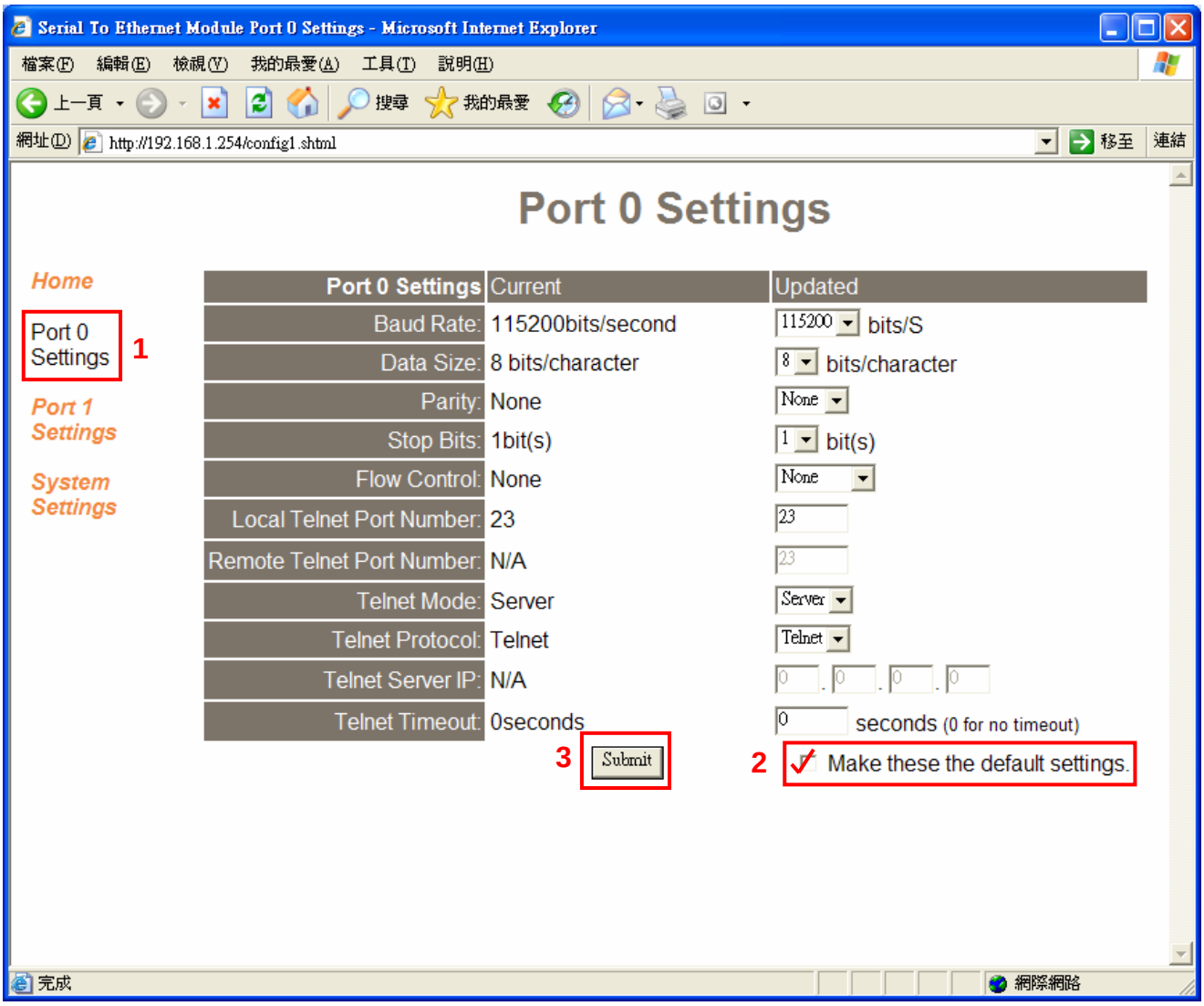
4. **Success Login to Web Configuration**



➢ Port 0 (UART TTL-232) - Setting

Click the **"Port 0"** to change RS-232 parameters as you need.

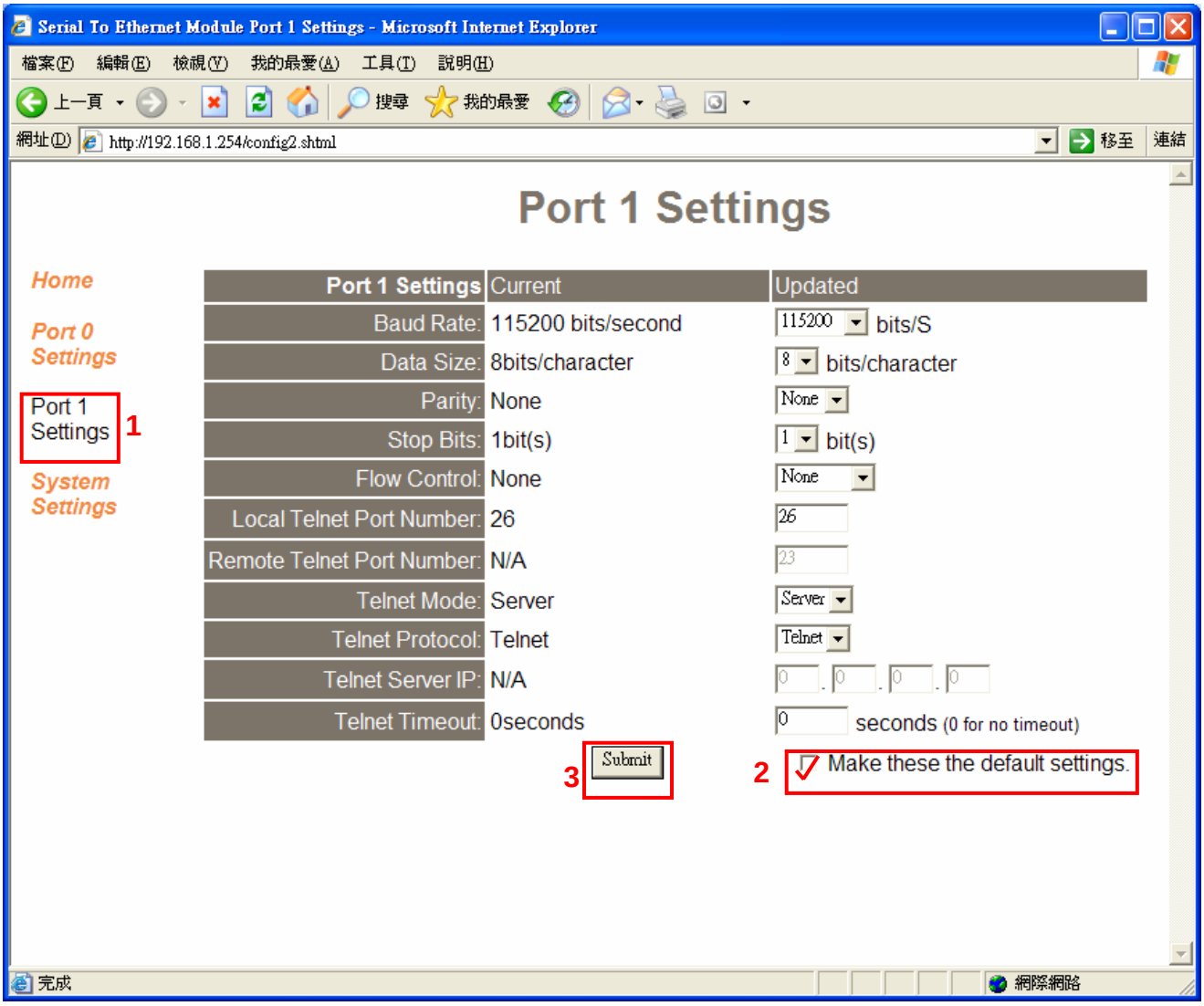
After parameters changed, you must select **"Make these the default settings"** then press **"Submit"** button then your new setting just will work successful.



➢ Port 1 (RS-232 DB9) – 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.

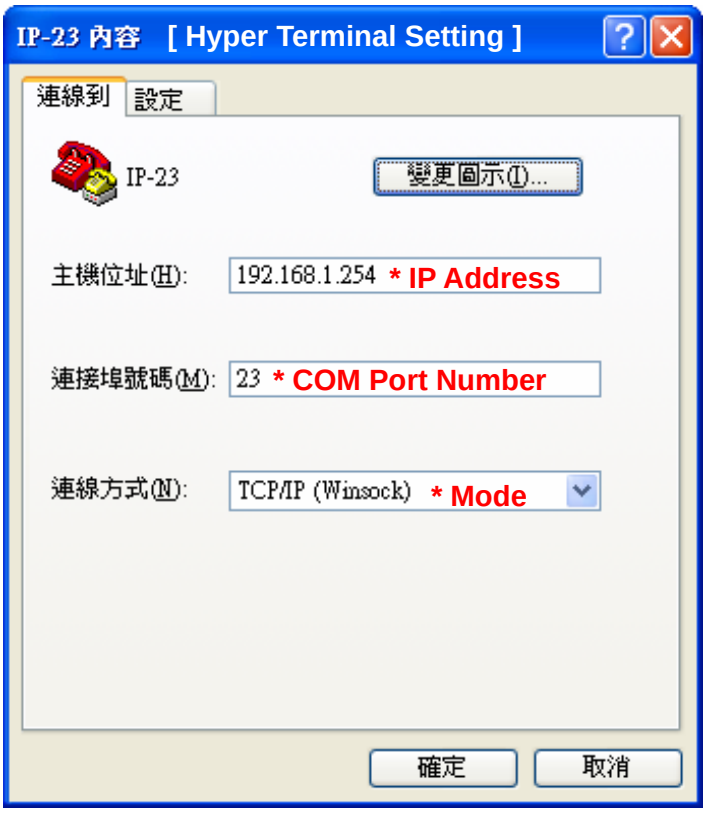


➢ Server Mode

Factory default Telnet mode is **Server mode** and waiting to be linked.

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

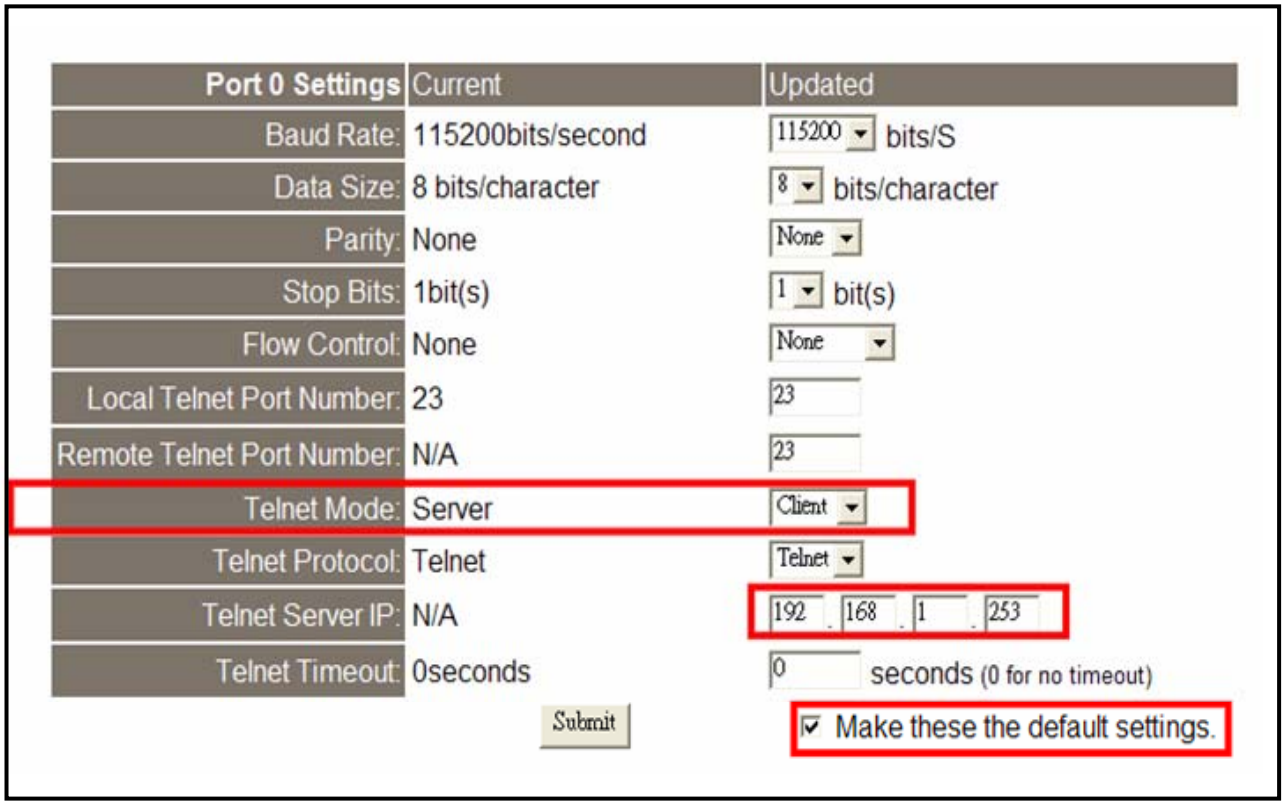
Port 0 Settings	Current	Updated
Baud Rate:	115200bits/second	115200 bits/S
Data Size:	8 bits/character	8 bits/character
Parity:	None	None
Stop Bits:	1bit(s)	1 bit(s)
Flow Control:	None	None
Local Telnet Port Number:	23	23
Remote Telnet Port Number:	N/A	23
Telnet Mode:	Server	Server
Telnet Protocol:	Telnet	Telnet
Telnet Server IP:	N/A	0 . 0 . 0 . 0
Telnet Timeout:	0seconds	0 seconds (0 for no timeout)
		Submit Make these the default settings.



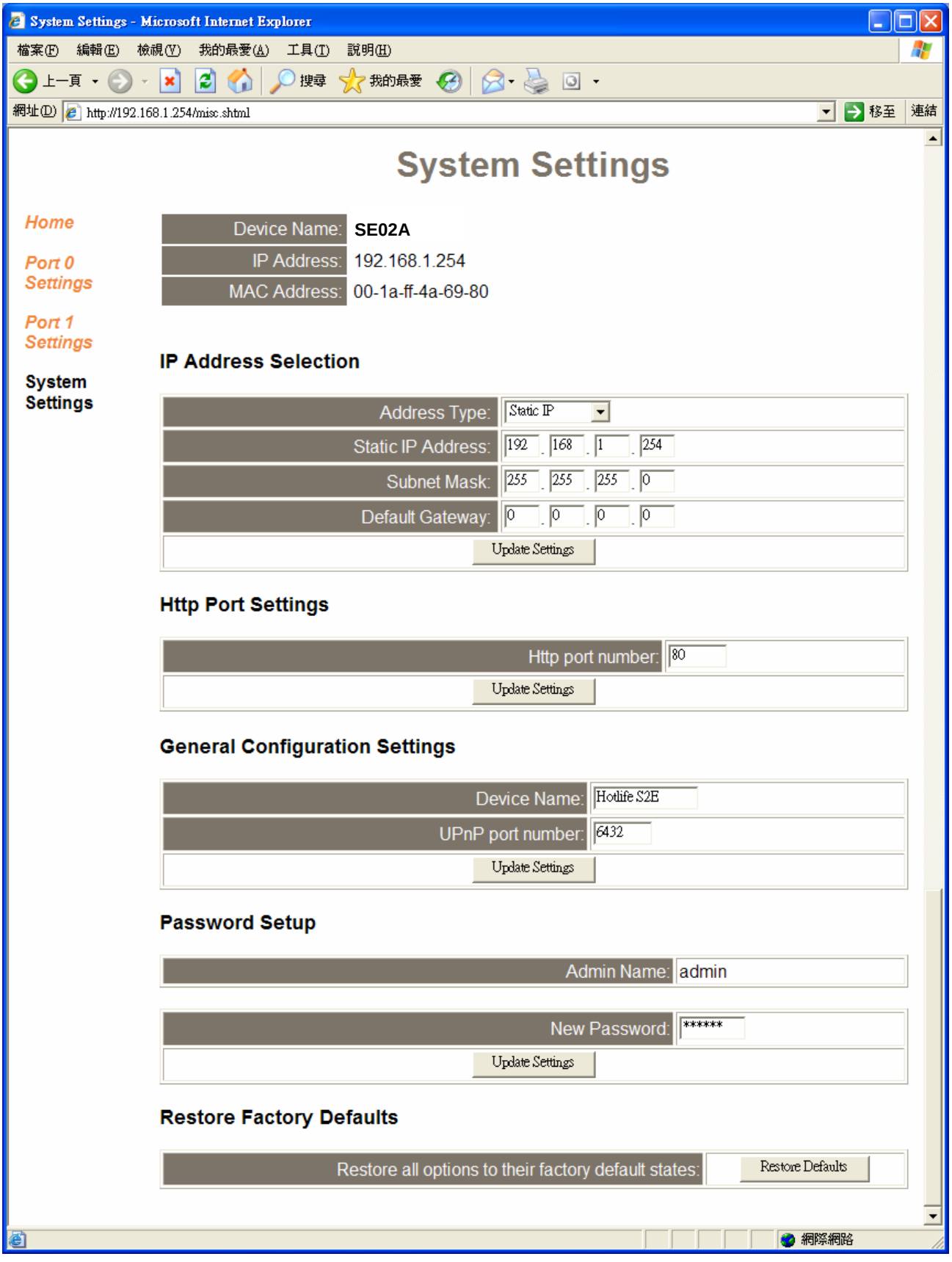
➢ Client Mode

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. P Keep press **"Recover"** button of Serial to Ethernet Converter then turn on power after 5 seconds take your hand off Recover button then Serial to Ethernet Converter 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".**