WiFi RS-232 Serial Adapter

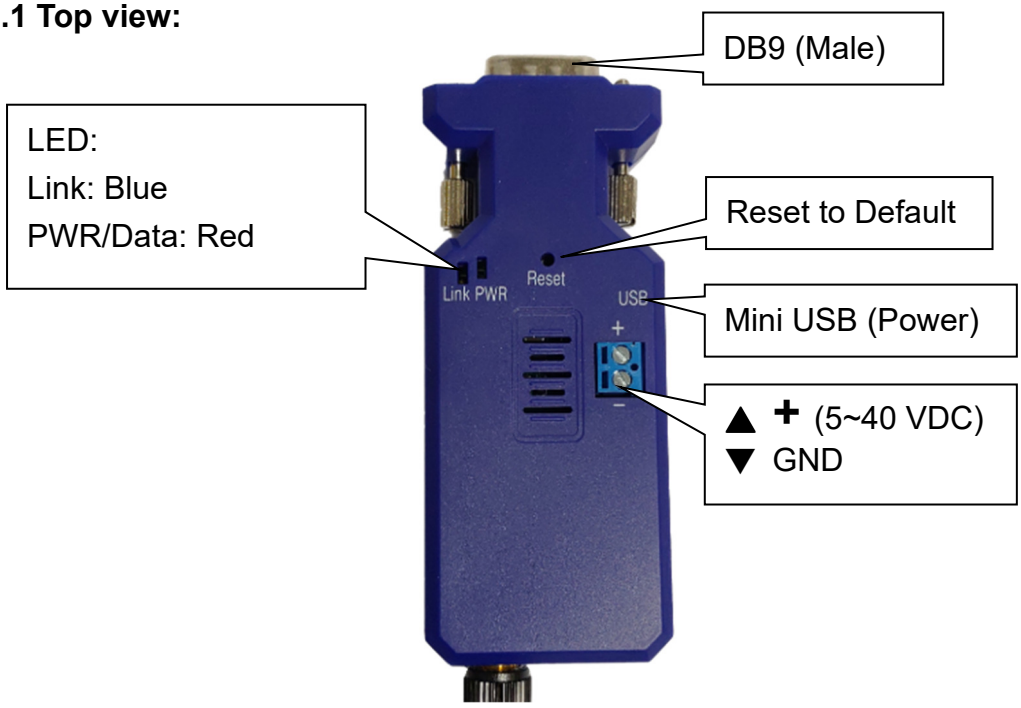
Model: S2W232E-ESP32

1. Package content:

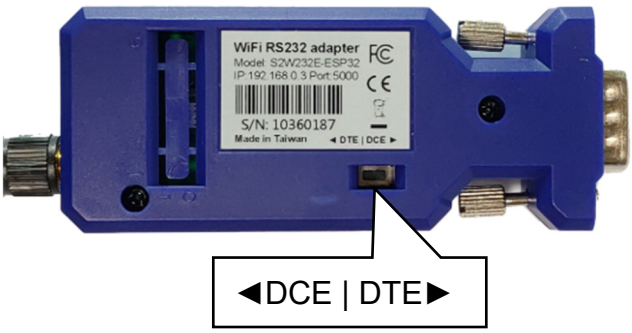
WiFi RS-232 adapter	Package Contents:
 White Box Dimension: 11 x 6 x 5 (cm) Total Package Weight: 105 g 	● WiFi RS-232 adapter x 1 ● A4 User manual x 1 ● Mini USB Cable x 1 

2. Profile:

2.1 Top view:



2.2 Rear Side:



2.3 DB9 connector (Male)

2: RX 7: RTS
3: TX 8: CTS
5: GND 9: VCC

Pin	Signal	DTE Direction	DCE Direction	Description
1	N/A			
2	RxD	Output	Input	Transmitted data
3	TxD	Input	Output	Received data
4	N/A			
5	GND			Ground
6	N/A			
7	RTS	Input	Output	Clear to send
8	CTS	Output	Input	Request to send (Default)
9	VCC			Power Input (5~40 VDC)

3. Power supply:

3.1 Voltage: 5~40 VDC, **Don't exceed the limit.**

3.2 There're 3 ways to power the adapter: Mini USB, 2P Terminal Block (Blue) and pin9 of DB9, please choose one. **Don't power the adapter by more than one source.**

3.3 The mini USB to type A cable is inside the standard package.

4. Specifications:

4.1 Default value:

- Baud rate: 9,600 bps
- Data bit: 8
- Parity: none
- Stop bit: 1
- Flow control: none
- SSID: S2W232abcdef (abcdef means the last 6 code of the Mac. address)
- Configuration Webpage IP: 192.168.0.3
- Socket: TCP server, Port: 5000
- Log in ID: admin, PWD: admin

4.2 Serial Port:

- Baud Rate: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400 bps
- Data bit: 5,6,7,8
- Parity: none, even, odd

- Stop bit: 1,1.5,2
- Flow control: None, RTS, CTS, RTS+CTS

4.3 Support Wi-Fi 2.4 GHz 802.11b/g/n

4.4 Transmit Power:

802.11b: +19dBm(Max.@11Mbps，CCK)

802.11g: +18dBm(Max.@54Mbps，OFDM)

802.11n: +16dBm(Max.@HT20，MCS7)

4.5 Receive Sensitivity:

802.11b: -85 dBm(@11Mbps，CCK)

802.11g: -70 dBm(@54Mbps，OFDM)

802.11n: -68 dBm(@HT20，MCS7)

4.6 Operating Current (work with 3.3V power supply)

AP: 74mA (average), 285mA (peak)

STA: 32mA (average), 196mA (peak)

4.7 Support WPA/WPA2 security mode.

4.8 Socket: TCP Server, TCP Client, UDP Server, UDP Client

4.9 Wireless Network Type: AP, Station

4.10 Security: WPA-PSK/WPA2-PSK

4.11 Encryption: TKIP, AES

4.12 User Configuration: Webpage setting

4.13 Support TCP Server/Client, Httpd Client

4.14 Operation Temperature: –20 ℃ to +85 ℃

4.15 Dimensions: 81.6 mm (L) x 31.75 mm (W) x 17 mm (H)

4.16 Antenna Gain: max. 2 dB (default)

Remark: All contents are subject to change without notice.

5. Configuration:

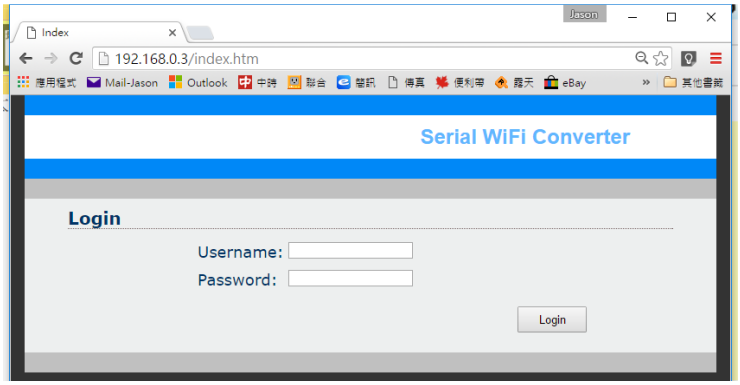
Step1: Connect the simpleAP named “S2W232abcdef”

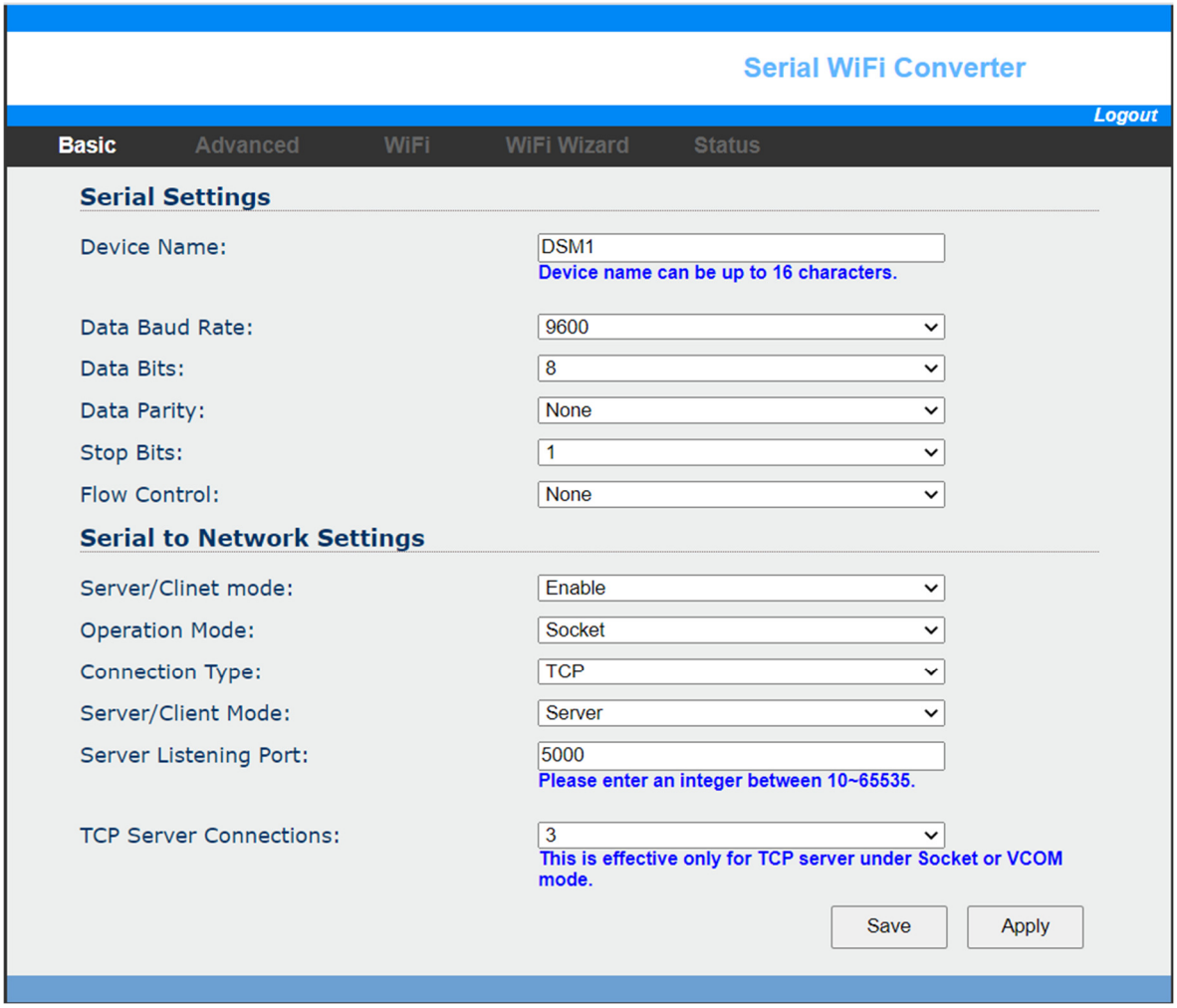
Step2: http://192.168.0.3 on browser

Step3: Log in

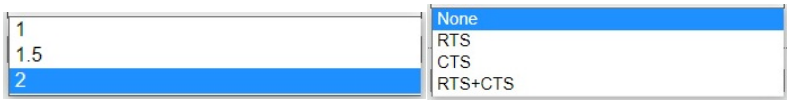
Username: admin

Password: admin

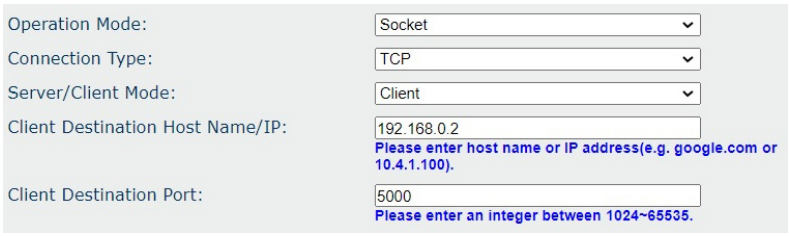


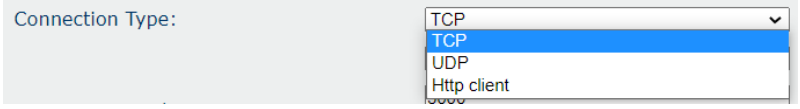


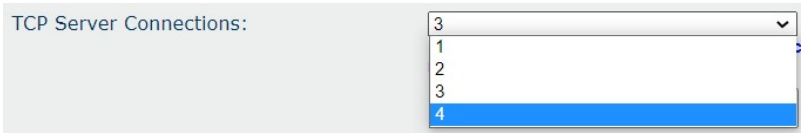
Baud rate Data bits Parity

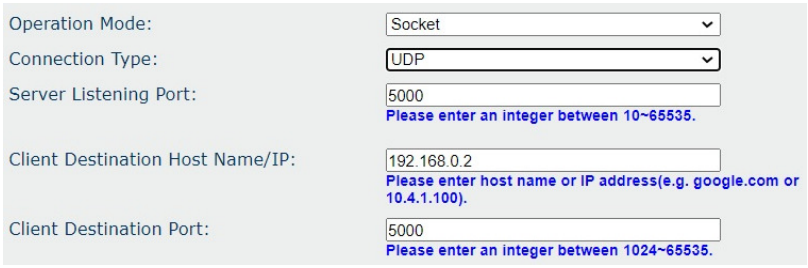


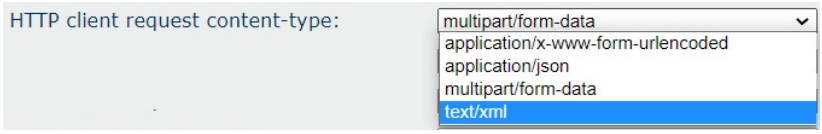
Stop bit Flow control

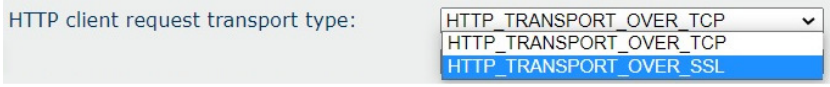




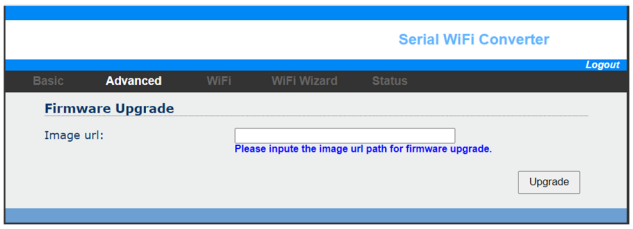




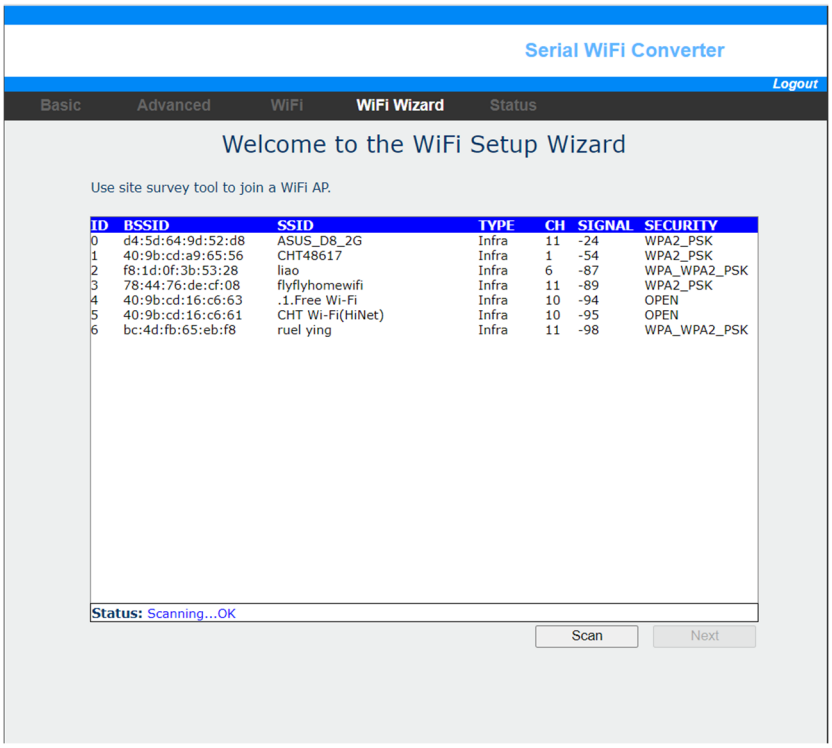




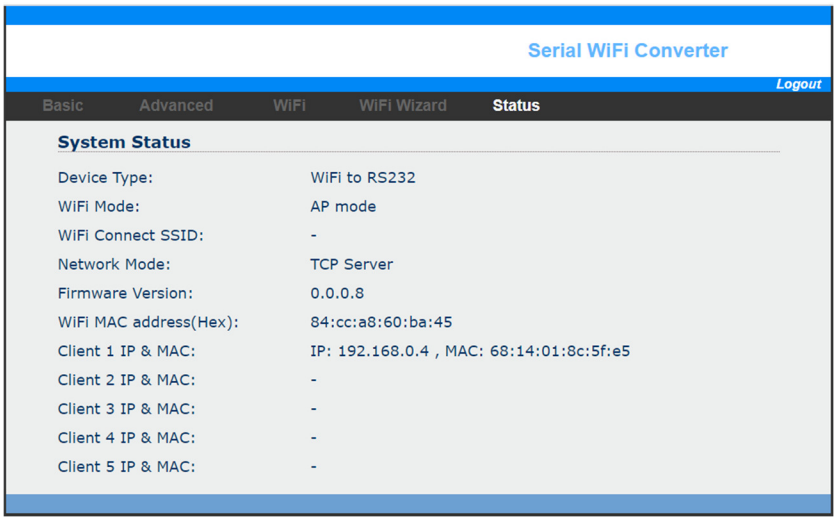
Firmware upgrade:

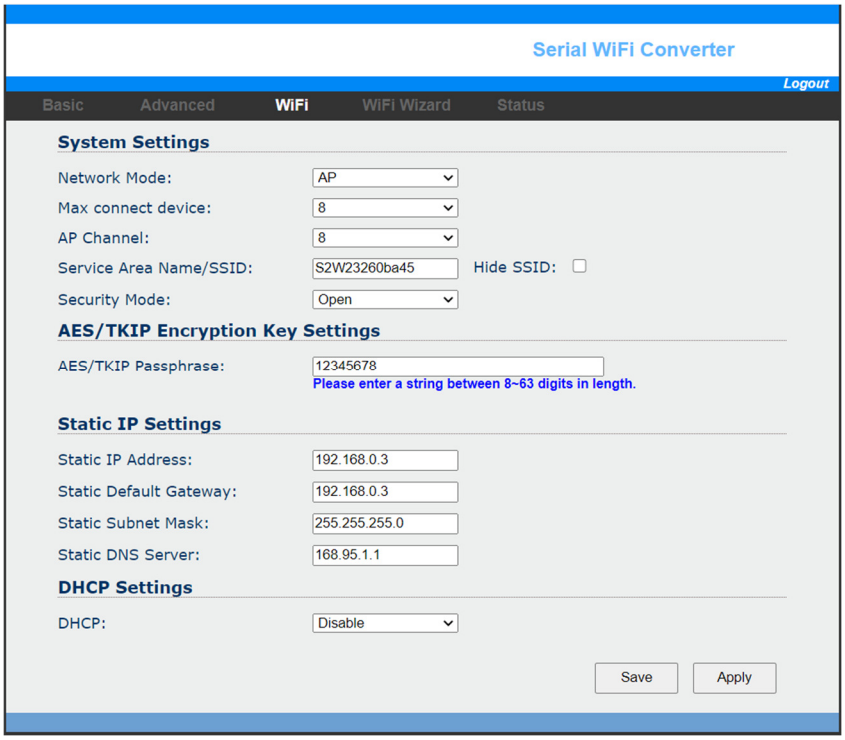


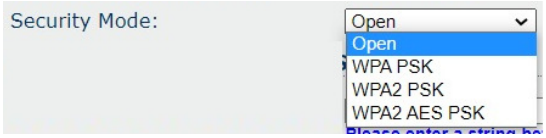
Site survey for station configuration:

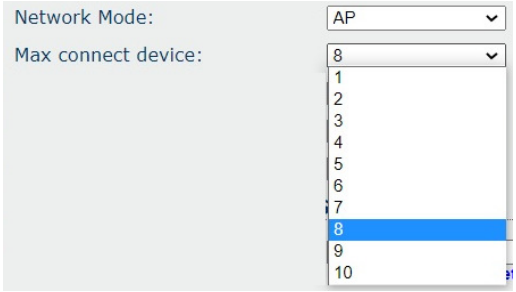


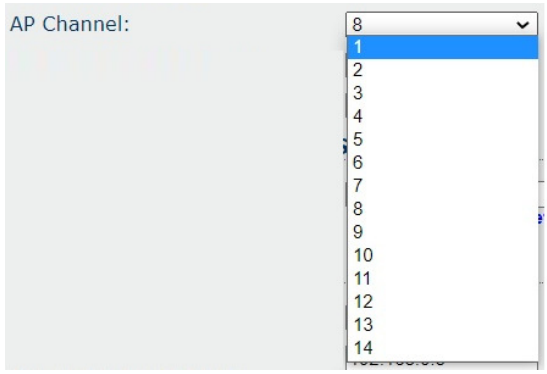
WiFi setting list:





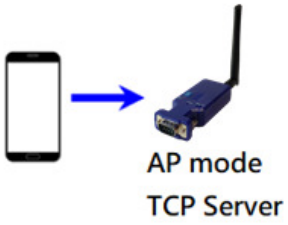






6. Network topology

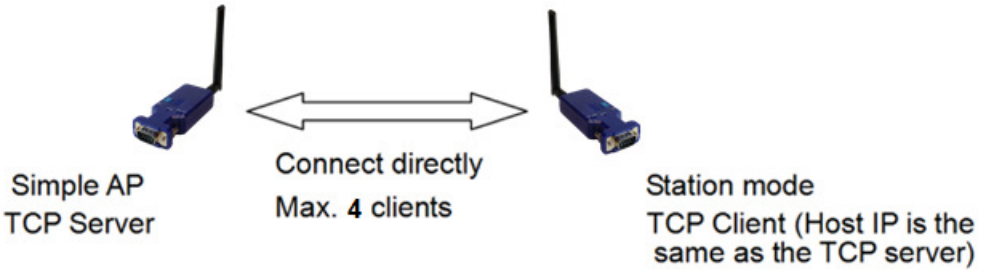
6.1 AP mode (Default)



6.2 Station mode

6.3 TCP Client

6.4 One to up to 4 broadcast



7. 3rd party test software

7.1 Teraterm: TCP client, COM port (ASCII only)

https://ttssh2.osdn.jp/index.html.en

7.2 AccessPort: COM port (Hex, ASCII)

http://www.sudt.com/en/ap/

7.3 Sockettest: TCP server or Client

https://sourceforge.net/projects/sockettest/

7.4 Virtual COM port driver-1

https://www.virtual-serial-port.org/

7.5 Virtual COM port driver-2

http://www.eterlogic.com/Products.VSPE.html

8. Test APP: The APP is used for the configuration and the data transmission test.

Download:

Android APP **iOS APP**

Android:

https://play.google.com/store/apps/details?id=com.ucconnect.uctcpipadapter_hex

iOS:

https://apps.apple.com/us/app/tcp-ip-to-serial-terminal/id1238054234?l=zh&ls=1

Screenshot of the APP: