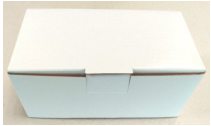


WiFi RS-232 Serial Adapter

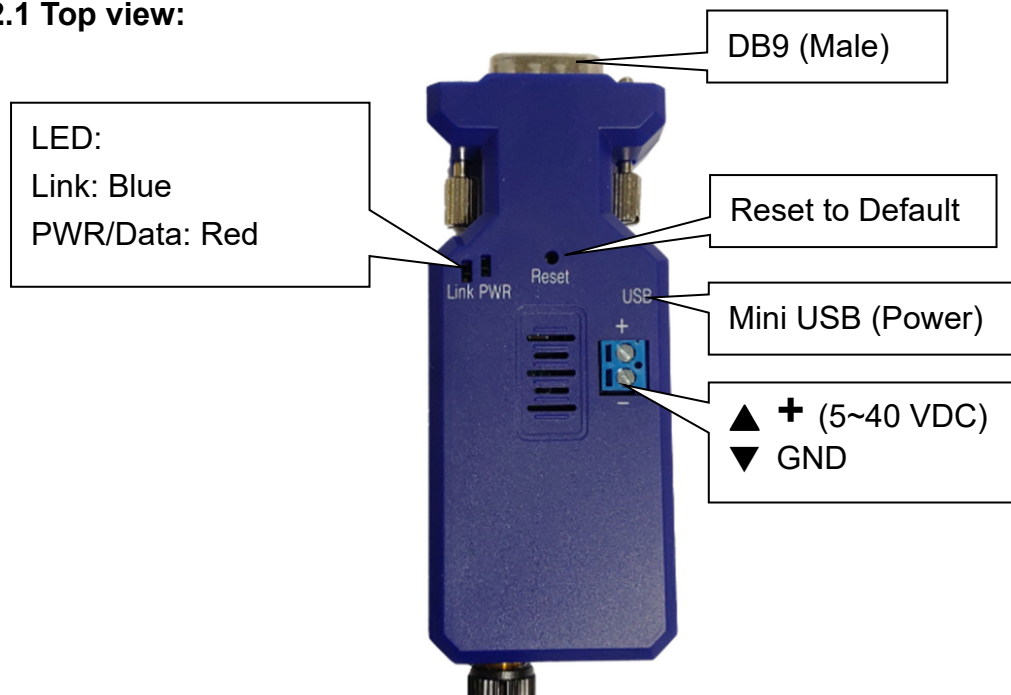
Model: S2W232E-ESP32

1. Package content:

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

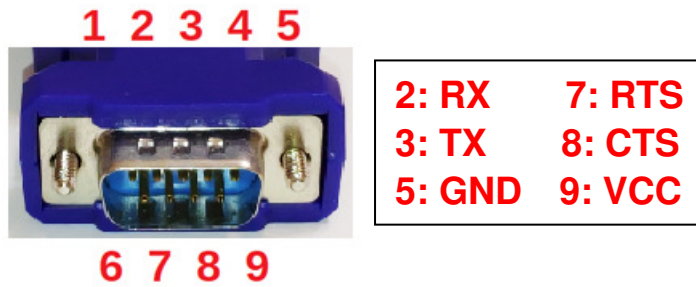
2.1 Top view:



2.2 Rear Side:



2.3 DB9 connector (Male)



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 °C to +85 °C

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:

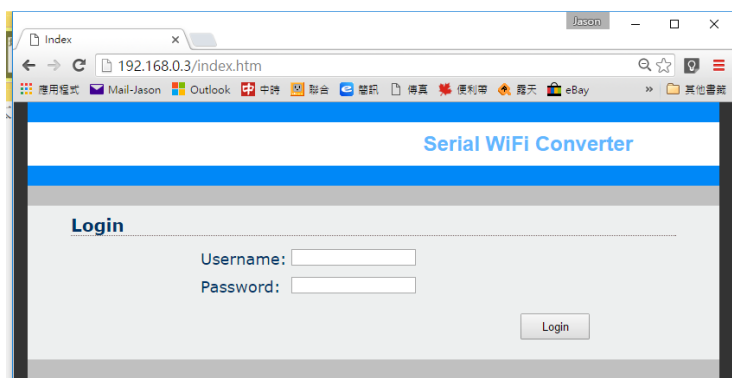
Step1: Connect the simpleAP named "S2W232abcdef"

Step2: http://192.168.0.3 on browser

Step3: Log in

Username: admin

Password: admin



Serial WiFi Converter

Logout

Basic
Advanced
WiFi
WiFi Wizard
Status

Serial Settings

Device Name:
Device name can be up to 16 characters.

Data Baud Rate:

Data Bits:

Data Parity:

Stop Bits:

Flow Control:

Serial to Network Settings

Server/Clinet mode:

Operation Mode:

Connection Type:

Server/Client Mode:

Server Listening Port:
Please enter an integer between 10~65535.

TCP Server Connections:
This is effective only for TCP server under Socket or VCOM mode.

230400	5	None
115200	6	Odd
57600	7	Even
38400	8	None
19200		
9600		
4800		
2400		
1200		

Baud rate

Data bits

Parity

1	None
1.5	RTS
2	CTS
	RTS+CTS

Stop bit

Flow control

Operation Mode:

Connection Type:

Server/Client Mode:

Client Destination Host Name/IP:
Please enter host name or IP address(e.g. google.com or 10.4.1.100).

Client Destination Port:
Please enter an integer between 1024~65535.

Connection Type:

TCP

UDP

Http client

TCP Server Connections:

Operation Mode:

Connection Type:

Server Listening Port:
Please enter an integer between 10~65535.

Client Destination Host Name/IP:
Please enter host name or IP address(e.g. google.com or 10.4.1.100).

Client Destination Port:
Please enter an integer between 1024~65535.

HTTP client request method:

HTTP client request content-type:

HTTP client request transport type:

Firmware upgrade:

Serial WiFi Converter

Basic Advanced WiFi WiFi Wizard Status

Firmware Upgrade

Image url:
Please input the image url path for firmware upgrade.

Upgrade

Site survey for station configuration:

Serial WiFi Converter

Basic Advanced WiFi WiFi Wizard Status

Welcome to the WiFi Setup Wizard

Use site survey tool to join a WiFi AP.

ID	BSSID	SSID	TYPE	CH	SIGNAL	SECURITY
0	d4:5d:64:9d:52:d8	ASUS_D8_2G	Infra	11	-24	WPA2_PSK
1	40:9b:cd:a9:65:56	CHT48617	Infra	1	-54	WPA2_PSK
2	f8:1d:0f:3b:53:28	liao	Infra	6	-87	WPA_WPA2_PSK
3	78:44:76:de:cf:08	flyflyhomewifi	Infra	11	-89	WPA2_PSK
4	40:9b:cd:16:c6:63	.1.Free Wi-Fi	Infra	10	-94	OPEN
5	40:9b:cd:16:c6:61	CHT Wi-Fi(HiNet)	Infra	10	-95	OPEN
6	bc:4d:fb:65:eb:f8	ruel ying	Infra	11	-98	WPA_WPA2_PSK

Status: Scanning...OK

Scan Next

WiFi setting list:

Serial WiFi Converter

Logout

Basic Advanced WiFi WiFi Wizard Status

System Status

Device Type:	WiFi to RS232
WiFi Mode:	AP mode
WiFi Connect SSID:	-
Network Mode:	TCP Server
Firmware Version:	0.0.0.8
WiFi MAC address(Hex):	84:cc:a8:60:ba:45
Client 1 IP & MAC:	IP: 192.168.0.4 , MAC: 68:14:01:8c:5f:e5
Client 2 IP & MAC:	-
Client 3 IP & MAC:	-
Client 4 IP & MAC:	-
Client 5 IP & MAC:	-

Serial WiFi Converter

Logout

Basic Advanced WiFi WiFi Wizard Status

System Settings

Network Mode:	AP	
Max connect device:	8	
AP Channel:	8	
Service Area Name/SSID:	S2W23260ba45	Hide SSID: ☐
Security Mode:	Open	

AES/TKIP Encryption Key Settings

AES/TKIP Passphrase:	12345678
----------------------	----------

Please enter a string between 8~63 digits in length.

Static IP Settings

Static IP Address:	192.168.0.3
Static Default Gateway:	192.168.0.3
Static Subnet Mask:	255.255.255.0
Static DNS Server:	168.95.1.1

DHCP Settings

DHCP:	Disable
-------	---------

Save Apply

Network Mode:

AP

Station

AP

Security Mode:

Open

Open

WPA PSK

WPA2 PSK

WPA2 AES PSK

AP Channel:

8

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Network Mode:

AP

Max connect device:

8

1

2

3

4

5

6

7

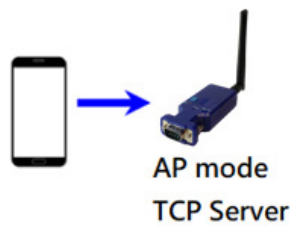
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9

10

6. Network topology

6.1 AP mode (Default)



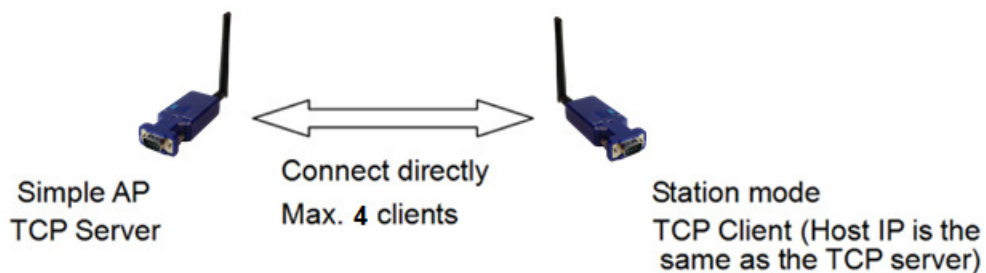
6.2 Station mode



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:

