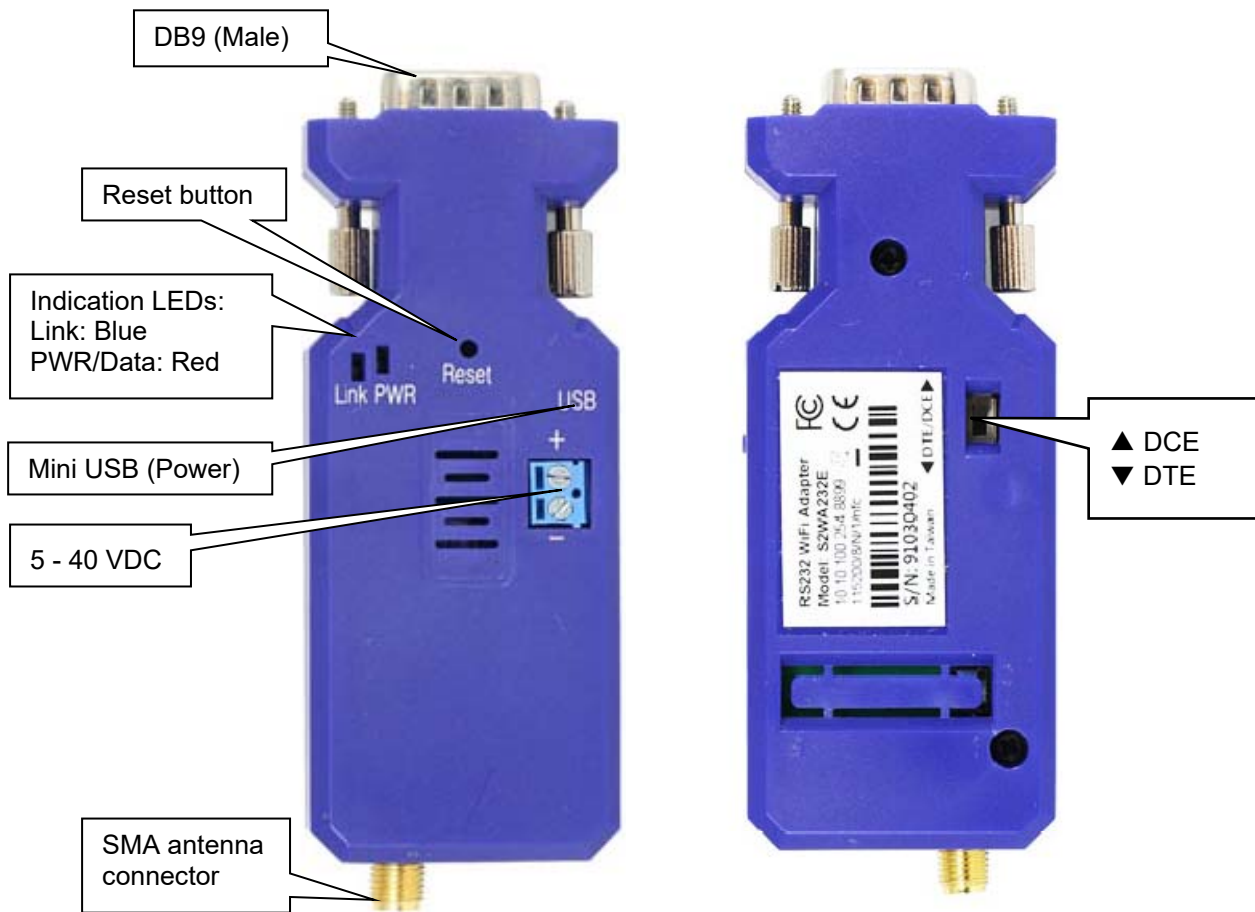


Quick reference sheet for WiFi to RS-232 adapter S2W232E-ESP32



Package Contents:

- Serial WiFi adapter
- 2 dBi dipole antenna
- Mini USB Cable (for power)
- Quick reference sheet



SPECIFICATIONS	
Part number	S2W232E-ESP32
Processor	ESP32-D0WDQ6-V3 by Espressif Xtensa® 32-bit LX6 microprocessor <ul style="list-style-type: none"> • 448 KB ROM • 520 KB SRAM • 16 KB SRAM in RTC
Operating system	VCOM software for: Windows 11, Windows 10, Windows 8/8.1, Windows 7 (32/64-bit). App available for Android and iOS
Network	IEEE 802.11 b/g/n
Frequency	2.412 - 2.484 GHz
Security	Open, WPA, WPA2, AES
Protocols	TCP Server, TCP Client, UDP Server, UDP Client, Httpd Client
Network modes	AP / Station
Max. simultaneous connections	4
Output TX power	802.11b: +19dBm(Max.@11Mbps, CCK) 802.11g: +18dBm(Max.@54Mbps, OFDM) 802.11n: +16dBm(Max.@HT20, MCS7)
Receive sensitivity	802.11b: -85 dBm(@11Mbps, CCK) 802.11g: -70 dBm(@54Mbps, OFDM) 802.11n: -68 dBm(@HT20, MCS7)
Power consumption	AP: 74mA (average), 285mA (peak) STA: 32mA (average), 196mA (peak)
Operating distance	Up to 330 feet (100 meters)
Baud rates	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400 bps
Data bits	5, 6, 7, 8
Parity	None, even, odd
Stop bits	1, 1.5, 2
Flow control	None, RTS/CTS
Buffer size	8KB
Parameter configuration	Web browser over WiFi
DEC/DTE	Manual switch
RS232 Signals	TX, RX, CTS, RTS, GND
Serial port	1-port RS232 male D-sub 9-pin with thumb-screws
Antenna	2.4Ghz, 2dBi di-pole with Reverse Polarity SMA (RP-SMA) male connector (inside threads / center receptacle)
Power supply	5 to 40VDC by screw terminals, DB9 or mini USB
Operating temp.	-20°C to 85°C
Weight	43g including antenna
Dimensions	81.6 x 31.75 x 17 mm
Certifications	CE, FCC, ROHS

Default COM port settings

- Baud rate: 9600 bps
- Data bit: 8
- Parity: none
- Stop bit: 1
- Flow control: none

Default network settings

- Adhoc mode (Simple AP), DHCP disabled
- SSID: S2W232-abcd (abcd is the last 4 numbers of the MAC address)
- TCP Server mode
- IP: 192.168.0.3
- Socket port: 5000
- Log in ID: admin
- Log in password: admin

Power

The adapter can be powered through the mini USB port, through the screw terminals or through pin 9 in the DB9 connector. 5VDC to 40VDC for all power sources. ONLY ONE POWER SOURCE should be connected at any time, otherwise the adapter may get damaged.

Management

The adapter's parameters can be configured using a standard web-browser. Please refer to the setup guide for details.

Virtual COM port software

A virtual COM port can be created using the free downloadable software utility called USC-VCOM from www.usconverters.com.

Alternative compatible COM port software are:

- Eltima
- Eterlogic

Please refer to the setup guide for details.

LED indication lights

Red LED: indicates that power is connected and should always be solid ON when power is connected.
Blue LED: indicates network status, network mode and firmware update state.

Adapter state	Network mode	Blue LED status	WiFi state
Ready	AP	Flashing 1 time pr 1.5 sec	Disconnected
Ready	AP	Solid ON	Connected
Ready	STA	Solid ON	Connected
Receiving/sending data	AP/STA	Flashing 3 times pr 1.5 sec	Connected
Firmware update mode	AP	Flashing 3 times pr 1.5 sec	Connected
Firmware update successful	AP	Flashing 1 time pr 1.5 sec	Connected
Firmware update failed	AP	Off	Connected

Reset button

To reset the adapter to factory defaults, press and hold the reset button through the small hole on the top of the adapter for more than 5 seconds.

DB9 male pin configuration

Pin	Signal	DTE Direction	DCE Direction	Description
1	N/A			
2	RX	Output	Input	Transmit data
3	TX	Input	Output	Receive data
4	N/A			
5	GND			Ground
6	N/A			
7	RTS	Input	Output	Clear to send
8	CTS	Output	Input	Request to send
9	VCC			Power Input (5-40 VDC)

Android and iOS test APP

The APP is used for configuration and data transmission test.

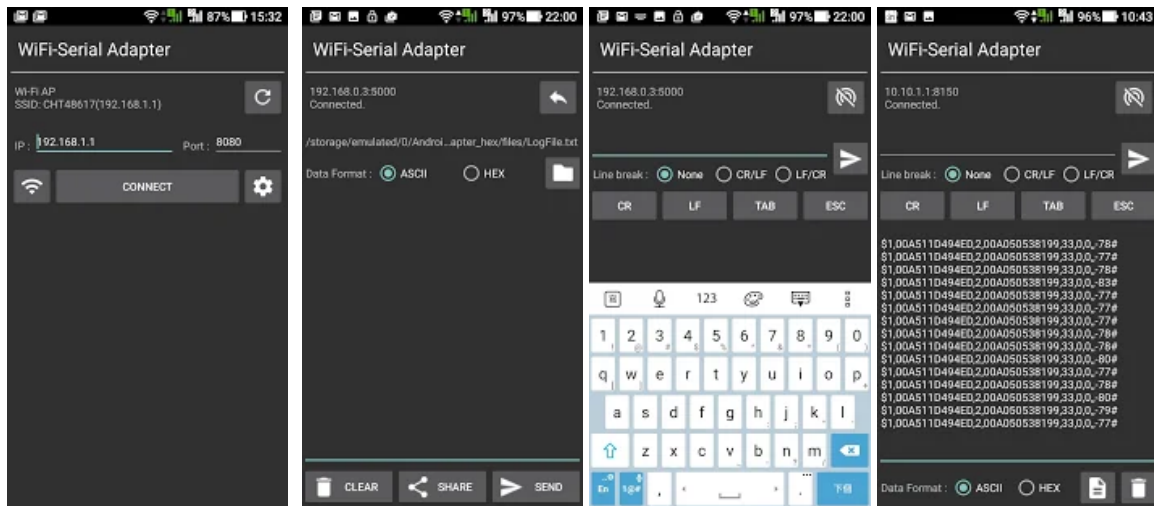
Android**iOS****Android:**

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

iOS:

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

Screenshots

Federal Communications Commission (FCC) Statement**RADIO FREQUENCY INTERFERENCE STATEMENT**

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS.

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

Tested to comply with FCC standards for home or office use