

# USR-WIFI-3\*1-EVK User Manual

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## 1. Overview

USR-WIFI-3\*1-EVK is evaluation board for WIFI module USR-C210/USR-C322. USR-WIFI-3\*1-EVK includes two serial ports: COM0 can be chosen as RS232/RS485/USB interface and COM1 is RS232 interface. USR-WIFI-3\*1-EVK adopts 5-18V DC power supply.

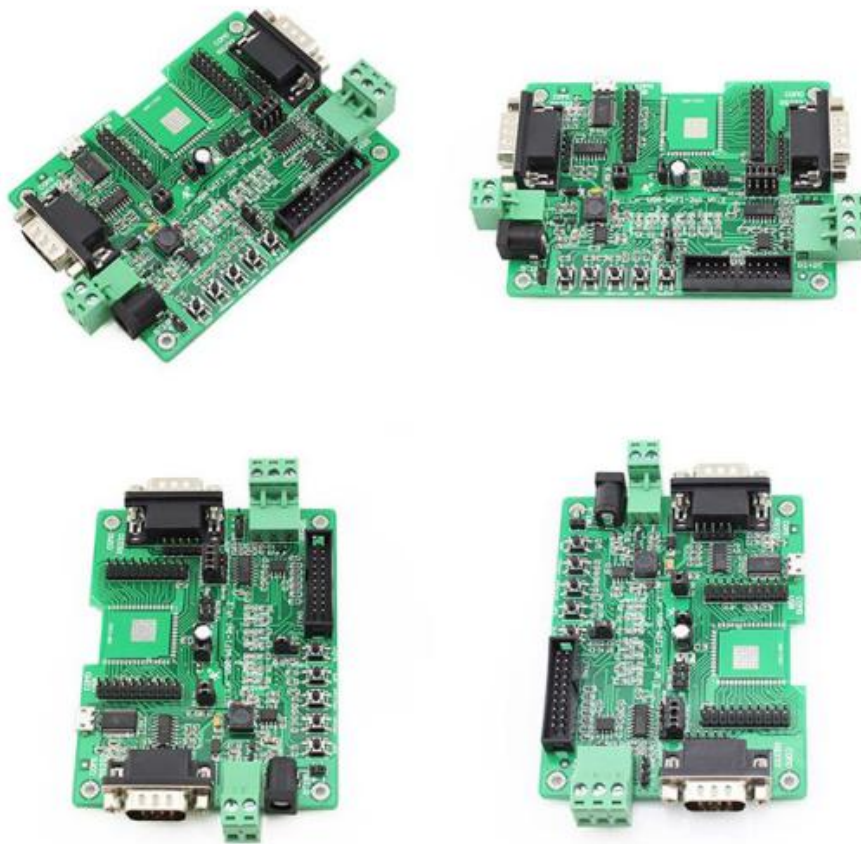


Figure 1 USR-WIFI-3\_1-EVK

### 1.1. Application diagram

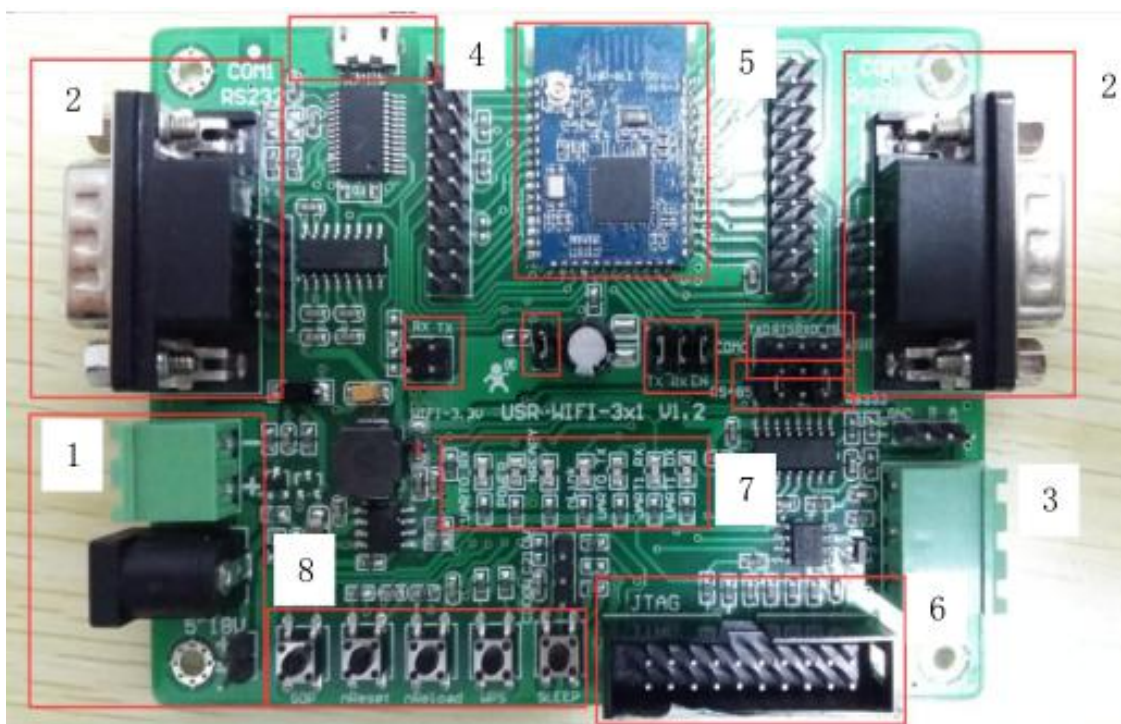
User can connect PC to module in AP mode through WIFI and serial port as follow to test communication.



Figure 2 Application diagram

## 2. Hardware introduction

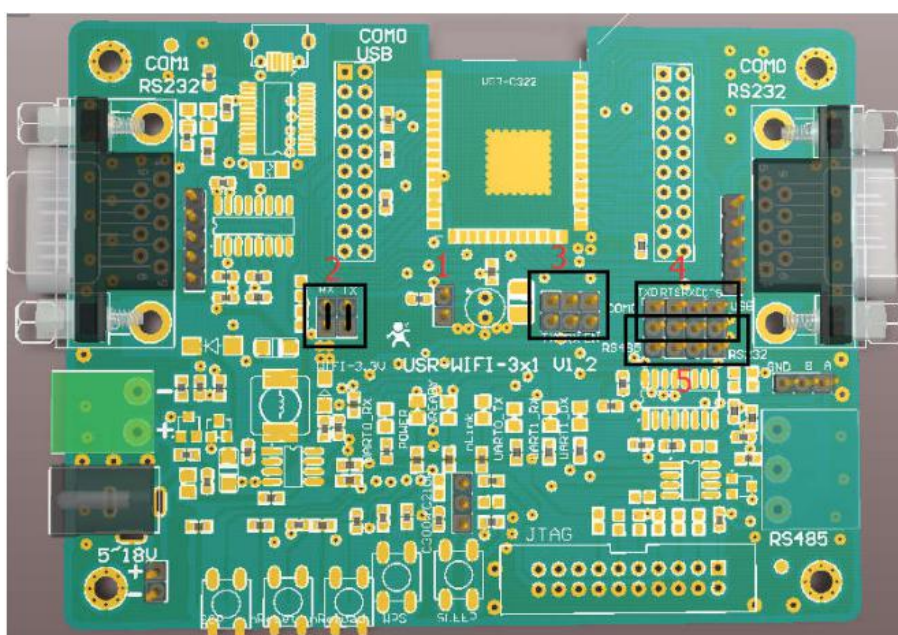
### 2.1. Hardware design



Number	Function	Name	Description
1	Interface	DC Jack	5-18V DC power supply interface
2		DB9	RS232(DB9) interface.(C210 only supports one serial port, so only COM0 is available for C210; C322 supports two serial ports, so COM0 and COM1 are both available)
3		3-Pin RS485	3-pin RS485 interface
4		USB	USB interface
5		WIFI	WIFI module pin interface
6		JTAG	20 pin JTAG interface
7	LED	Power	LED to display whether module is powered on by 3.3V power supply
		UART0_RX	RS485 or right side RS232 RX LED
		UART0_TX	RS485 or right side RS232 TX LED
		UART1_RX	Left side RS232 RX LED
		UART1_TX	Left side RS232 TX LED
		nReady	nReady/GPIO LED to display whether module is working normally
		nLink	nLink/GPIO LED to display module WIFI connection status
8	Button	SOP	To enable SOP.
		nReset	To reset module.
		nReload	To restore module to default settings.
		WPS	WPS pin.
		SLEEP	To wake up module from sleep mode.

Figure 3 Hardware design

## 2.2. Enable interface





Number	Description	
1	To enable power supply interface(Default is in short-circuiting status)	User can short-circuit the pin from top to bottom to enable interface.
2	To enable left side RS232 interface	
3	To enable RS485 interface	
4	To enable USB interface	
5	To enable right side RS232 interface	

**Figure 4 Enable interface**

### 3. FAQ

1. Serial port receives data abnormally.

(1) Serial port parameters settings(baud rate, data bits, stop bits, parity) are incorrect.

(2) User can short-circuit RXD pin and TXD pin of serial port to do self-receive/transmit test.

If user has any question, please submit it back to customer center: <http://h.usriot.com>.

## 4. Contact

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## 5. Disclaimer

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## 6. Update History

2017-11-21 V1.0.0 created.

