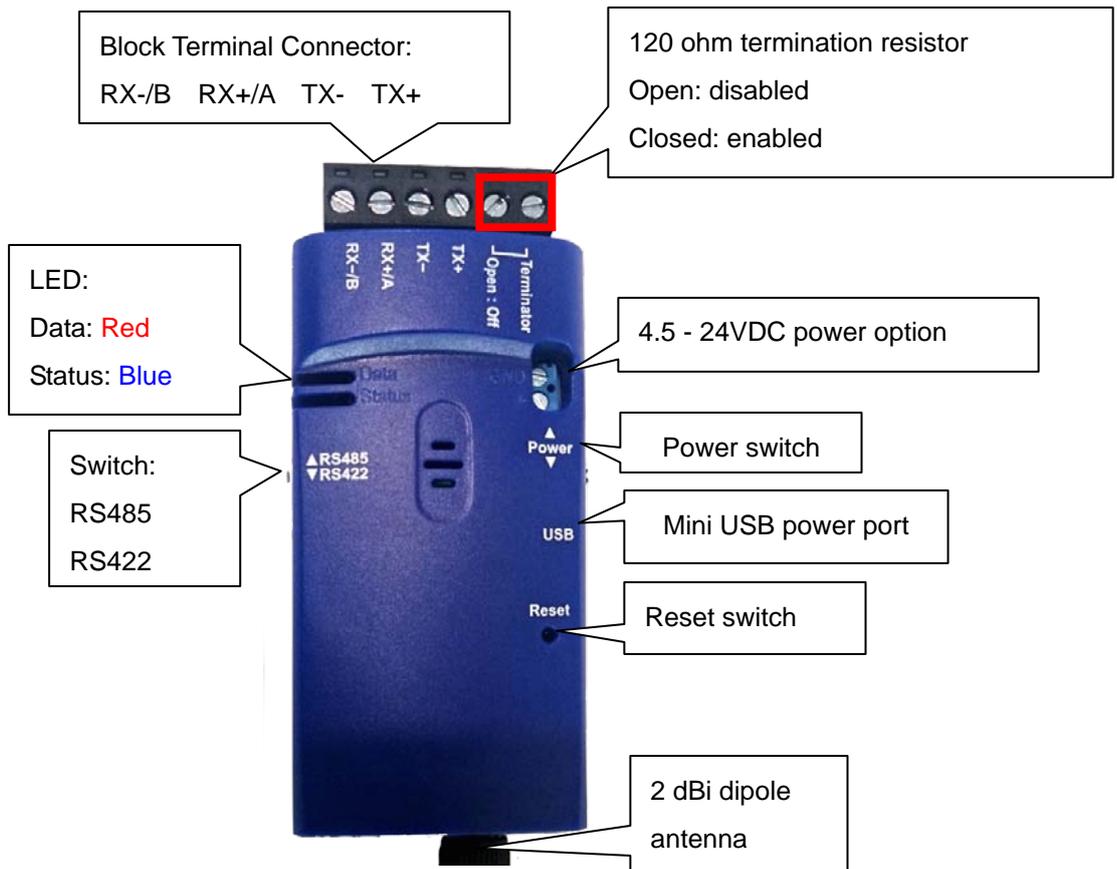




Quick reference sheet for WiFi to RS485/422 adapter UCW4842





SPECIFICATIONS	
Part number	UCW4842
Processor	Broadcom BCM4390 ARM Cortex-M3 @48MHz, 32-bit CPU + WLAN CORE Memory: 448KB RAM and 2MB flash
Operating system	Windows 10, 8.1, 8, 7, Vista, XP (32/64-bit)
Network	IEEE 802.11 b/g/n
Frequency	2.412 - 2.484 GHz
Security	WPA TKIP, WPA AES, WPA2 TKIP, WPS2 AES
Protocols	ARP, IP, ICMP, UDP, TCP, DHCP, Modbus TCP RTU (RS485)
Network mode	Simple AP, Station, Dual (AP & Station) / Infrastructure, Ad-Hoc
Transmit power	+17dBm @802.11b, +13dBm @802.11g, +11dBm @802.11n
Minimum receiver sensitivity	-80dBm
Power consumption	Max. 360mA peak at 3.3V
Baud rate	9600 to 921,600 bps
Data bits	8
Parity	None, even, odd
Stop bits	1
Parameter configuration	Web browser over WiFi
Operating distance	Up to 330 feet (100 meters)
RS485 / RS422 Signals	RS485: D+, D- RS422: TX+, TX-, RX+, RX-
Flow control	Automatic Data Direction Control
Serial port	Removable screw terminal header
Antenna	External 2dBi di-pole, SMA Female
Power supply	<ul style="list-style-type: none">• 5.0VDC by included mini USB cable• 5.0 to 24.0VDC by screw terminals• External power supply or battery
Operating temp.	0C to +70C
External battery option	Yes
Dimensions	80 x 40 x 18 mm
Certifications	CE, FCC, ROHS



Power

The adapter can be powered either through the mini USB port (max 5.5VDC) or through the screw terminals (max 24VDC).

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 enabled
- SSID: Serial2WiFi_ab_cd (“ab” and “cd” is the last 4 digits of the MAC address)
- Security: WPA2, password: 12345678
- IP: 192.168.10.1
- Socket port: 8080
- Channel: 6
- Log in ID: admin
- Log in password: admin

Parameter management

The adapter’s parameters can be configured using a standard web-browser.

Please refer to the setup guide “How to setup the UCW232C Serial WiFi adapter” for details.

Virtual COM port driver

A virtual COM port can be created with one of the following downloadable software utilities:

- USR-VCOM
- PortShare
- Fabulatech COM port redirector

Please refer to the setup guide “How to setup the UCW232C Serial WiFi adapter” for details.

LED indication lights:

Mode	LED Status						Remark
Start *	Red (System):	off	on	off	off	on	Red LED solid on when ready
	Blue (Data):	off	on	off	flash ... (not ready)	off	
WPS	Red (System):	flash		go to *			Press and hold more than 1 sec.
	Blue (Data):	off		go to *			
Reset to default	Red (System):	off		go to *			Press and hold more than 5 sec.
	Blue (Data):	off		go to *			
Data	Blue (Data): flash when data input or output via serial port						
Failure	Red (System): off when system fail						
OTA	Red (System):	flash in turn with Blue(Data) LED					F/W upgrade
	Blue (Data):	flash in turn with Red (System) LED					



Reset / WPS button

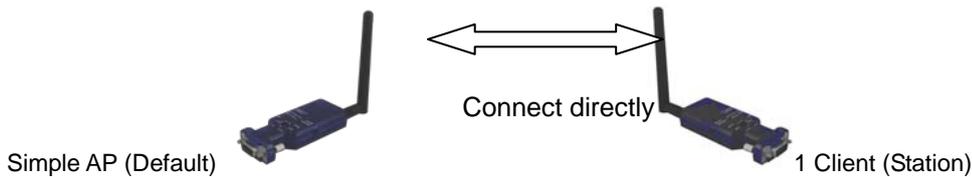
Reset: Press the “Reset” button for more than 5 seconds. The LEDs will turn off for a few seconds and then the adapter will reboot to the default values.

WPS: Press the button for less than 3 seconds to enable WPS.

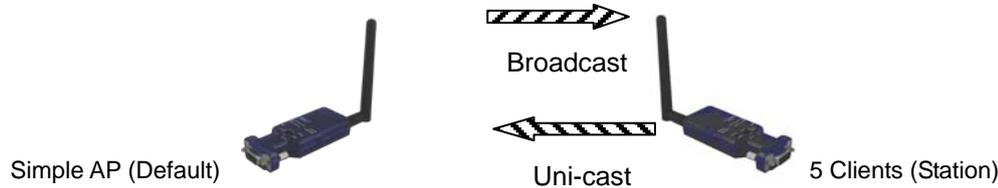
Firmware upgrade: Power off the adapter and press the reset button, then power on the adapter while holding the reset button. Release the reset button when the two LED lights are flashing; the adapter will then be in OTA mode and ready for the firmware upgrade.

Setup examples.

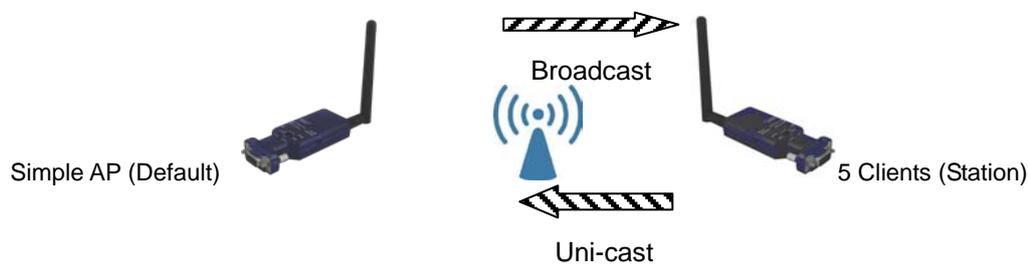
One to one connection: The two WiFi adapters will be connected directly without access point.



One to 5 connection via Simple AP



One to 5 connection via other Access Point:



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 UNDESIRABLE

OPERATION. Tested to comply with FCC standards for home or office use.