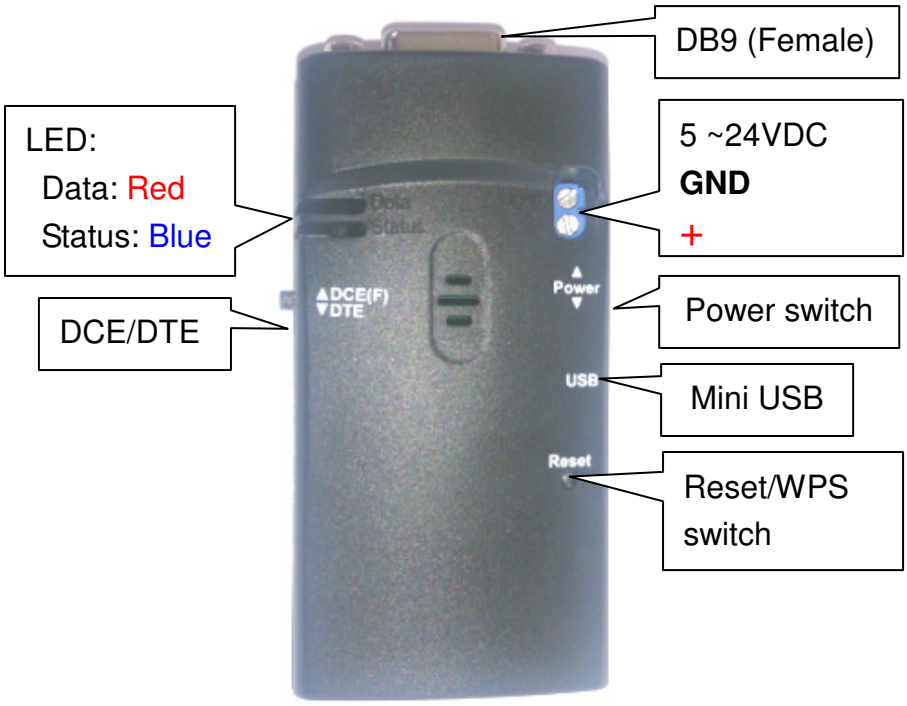
WiFi to RS-232 adapter user manual

WiFi to RS-232 adapter	Package Contents:
 White Box Dimension: 11 x 6 x 5 (cm) Total Package Weight: 126 g	● WiFi RS-232 adapter x 1 ● A4 User manual x 1 ● Mini USB Cable x 1 

1. Product profile: Female DB9 connector with nut.



2. Start to use the adapter

2.1 There're two power inputs, mini USB or blue 2 ports block terminal. Please switch to choose one way to power the adapter. The max. voltage is 24 VDC input from the blue block terminal.

2.2 COM port default setting:

- Baud rate: 115200 bps
- Data bit: 8
- Parity: none
- Stop bit: 1
- Flow control: none

2.3 Network default setting:

- Simple AP (support DHCP server)
- SSID: MXCHIP_xxxxxx (xx means mac address)
- No Security
- IP: 192.168.1.1
- Socket port: 8080
- Log in ID: admin
- Log in password: admin

2.4 Power switch: mini USB side by default. The user will switch to the blue 2 ports block terminal side if the power input comes from other sources.

2.5 DCE/DTE switch: DCE side. The switch will swap TX,RX,CTS,RTS of the COM port. Generally, DCE side for PC or NB setup. The user will test and switch to the correct side for the remote device.

3. Configuration: Please choose one way and download the “TeraTerm” tool for testing.

3.1 Web page: The user will setup the adapter via PC, NB or Smart phone.

Step1: Scan and connect the AP named “MXCHIP_xxxxxx”

Step2: http://192.168.1.1 on browser

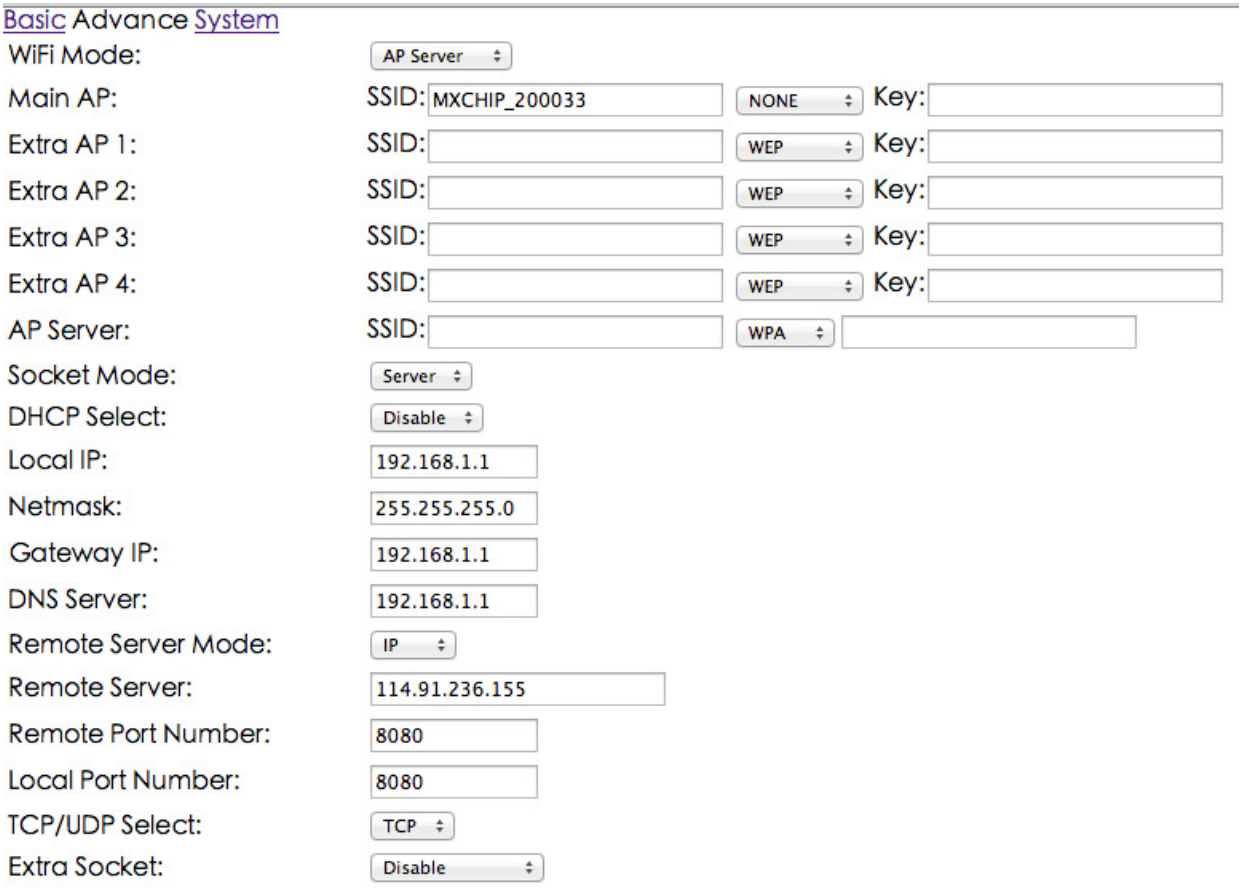
Step3: Log in

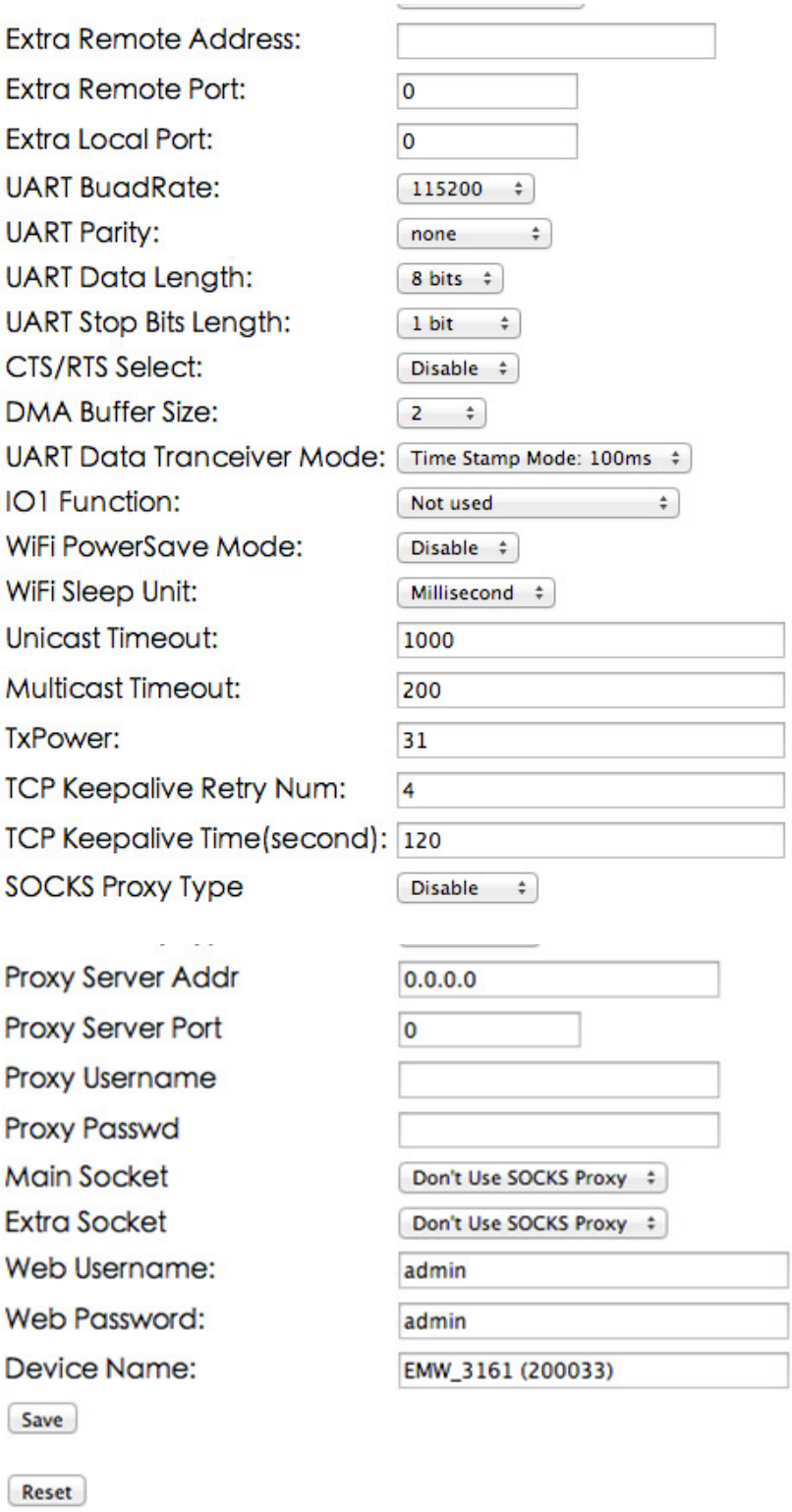
Username: admin

Password: admin

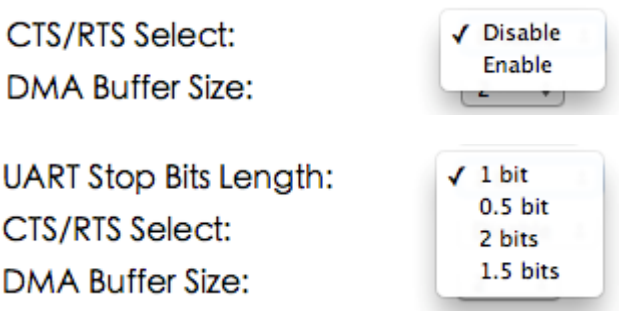
You can configure the WiFi and COM port parameters from the web page. Press “Save” when setup ready.

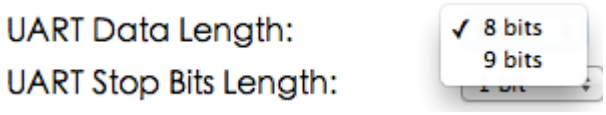
3.1.1 Main function:

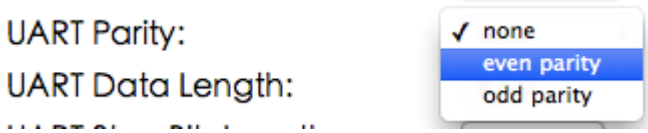


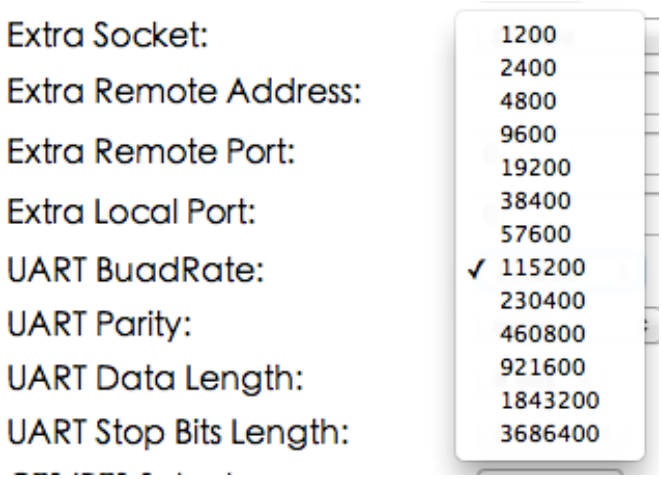


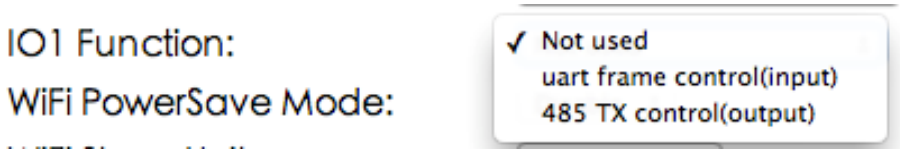
3.1.2 Serial Port setting:

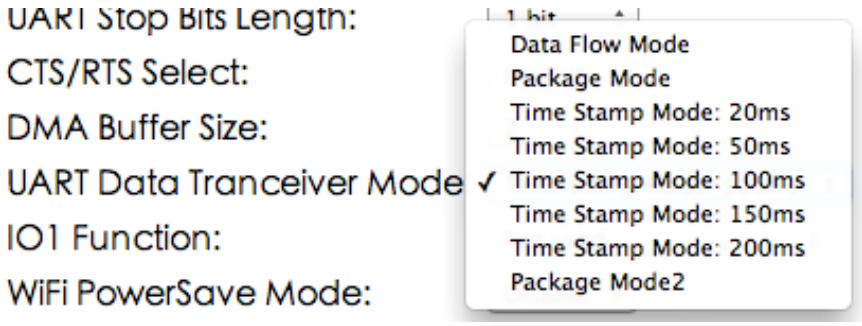




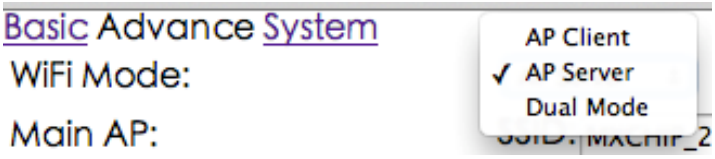


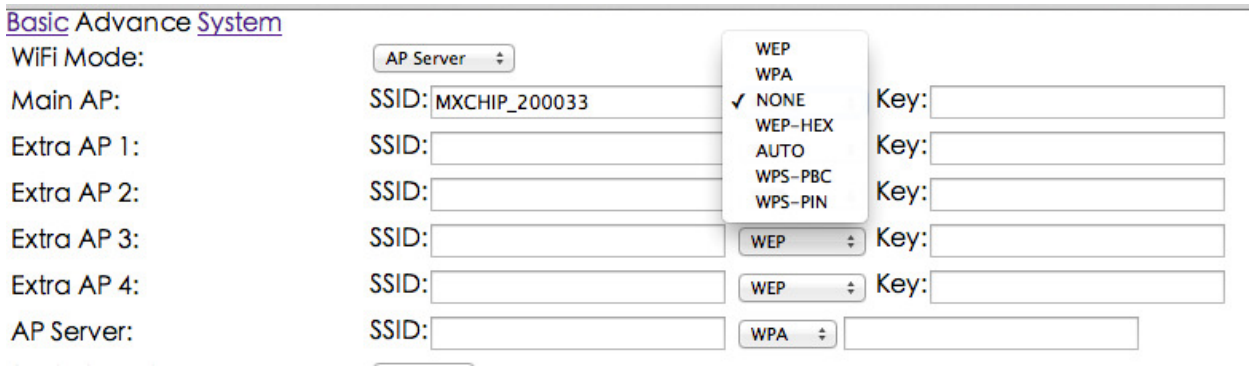


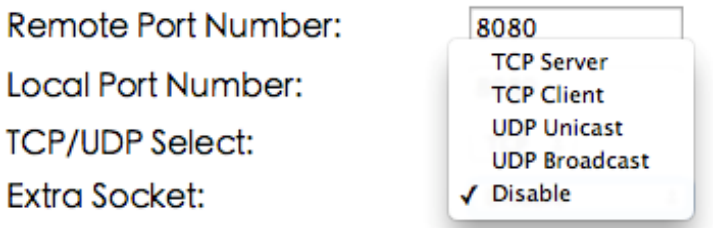


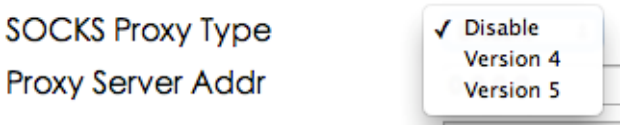


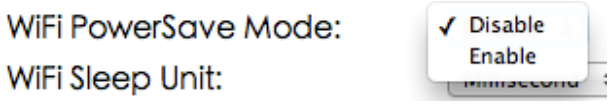
3.1.3 WiFi setting:

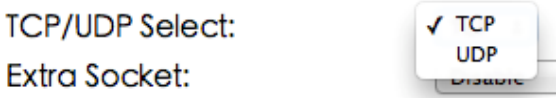


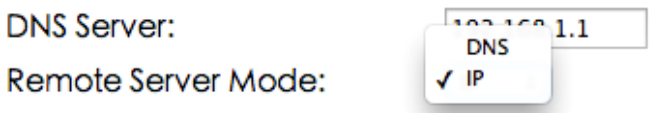




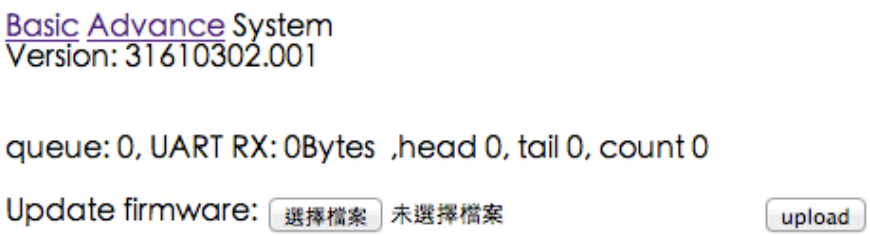








3.1.4 Firmware uphgrade:



3.2 Command Set via WiFi

You can send the command to the adapter from UDP protocol on port 8089 when the adapter is connected to a wireless network. You can send a command to all of the local adapters using a UDP broadcast, and each adapter can return the result by an UDP unicast package.

Remark: Please check the “RM0001E_mxchipWNet_DTU_V4.pdf” document on Page 26 Section 4. The adapter will not support the command set via serial port.

4. LED indication:

LED	Status	Function Description
Red	On	Firmware initialize successful
	Off	Firmware uninitialized or deep sleep mode
	Flash	Firmware update mode
Blue	On	WiFi connected, DHCP negotiate success
	Off	WiFi disconnected
	Keep Flash	Data transmission/WPS negotiating/EasyLink mode

6. WPS/ Reset button:

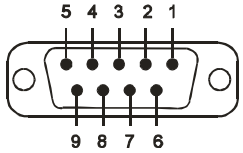
6.1 WPS: Pull down and up to enter WiFi protected setup (WPS)

6.2 EasyLink: Double click to enter one step configuration method.

6.3 Reset to default value: Pull down and keep for 5 seconds to restore all settings to default value.

7. RS232 Interface: DB9 Female with Nut

7.1 Pin-out:



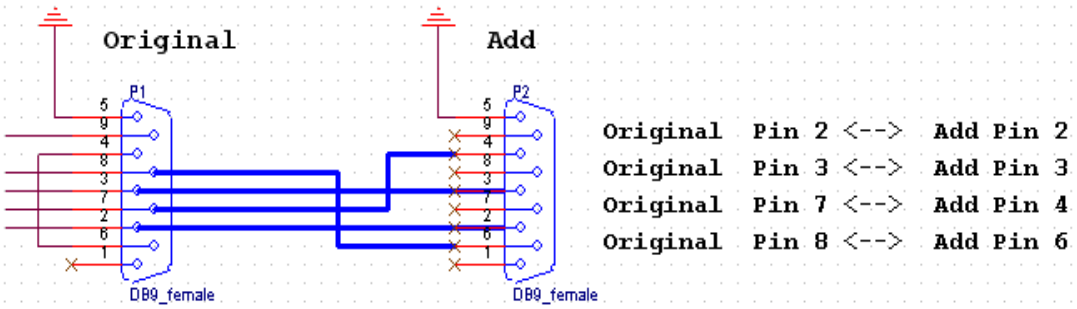
7.2 Signals:

Pin	Signal	DTE Direction	DCE Direction	Description
1	CD	Input	Output	Not connected
2	TxD	Output	Input	Transmitted data
3	RxD	Input	Output	Received data
4	DSR	Input	Output	Contact manufacturer to set this
5	GND	N/A	N/A	Signal ground
6	DTR	Output	Input	Contact manufacturer to set this
7	CTS	Input	Output	Clear to send

8	RTS	Output	Input	Request to send (Default)
9	Vcc	Input	Input	External Power supply (Remark 1)

Remark:

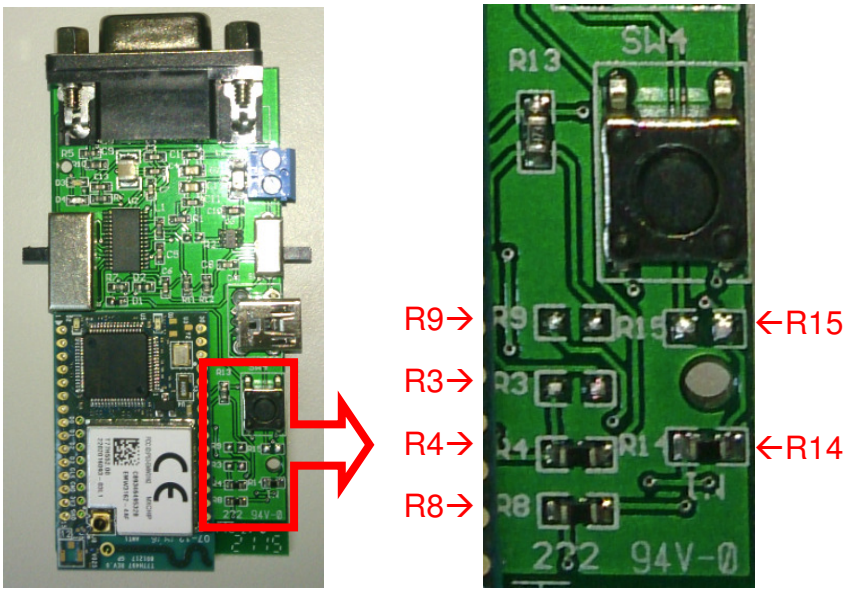
1. The adapter can be powered by the pin 9 of DB9. The default is available.
2. DSR/DTR Connection:



8. RS-232/UART & Pin9 power Input/Output setting:

The adapter supports the RS-232/UART and DB9 pin9 power input/output switching setting by hand welding. The plastic housing will be opened by removing the screw on the rear side.

Warning: Please power off before change the circuit or check the circuit before power on.



Pin definition:

	R3	R4	R8	R9	R14	R15
RS-232	Open	Short	Short	Open		
UART(TTL)	Short	Open	Open	Short		
Pin9 of DB9 power input					Short	Open
Pin9 of DB9 power output					Open	Short
Pin9 of DB9					Open	Open

Remark:

1. Short circuit: Weld the 0 ohm resister or wire on the two ends.
2. Open circuit: Remove the 0 ohm resister or wire on the two ends.
3. The warranty will be void if the case is removed. Please confirm the requirements before ship the adapter.