

# Wi-Fi Serial Server

## Specifications

### System Information

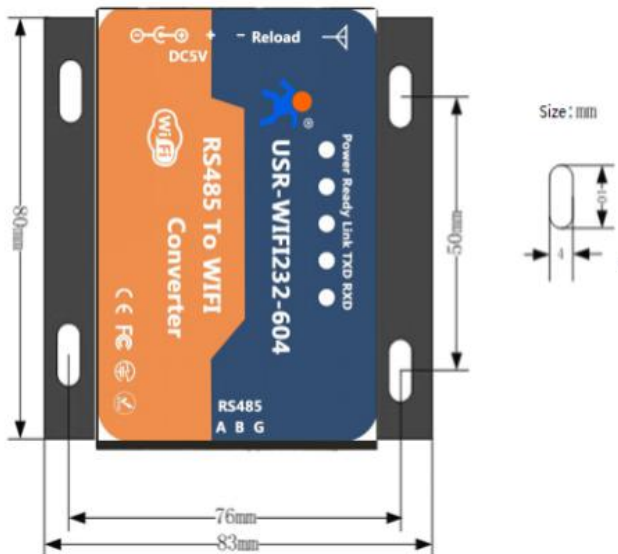
Processor	MIPS solution (32bit 580MHz)
RAM / Flash	8M /2M

### Network Parameter

Network Protocol	IP, TCP, UDP, DHCP, DNS, HTTP, ARP ICMP, Web socket, HTTPD Client
Receive Buffer	64K byte
Max. TCP connection	32

### Wi-Fi

Standard	802.11 b/g/n
Network Mode	AP / Station / AP+Station
Access Terminal Quantity in AP Mode	32
Frequency Range	2.412 GHz -2.484 GHz
Transmit Power	802.11b: +17dBm (Max.)
	802.11g: +16dBm (Max.)
	802.11n: +15dBm (Max.)
Receive Sensitivity	802.11b: -89dBm
	802.11g: -76dBm
RF Model	802.11n: -74dBm
	DSSS / OFDM
Transmission Rate	802.11b: 11 Mbps
	802.11g: 54 Mbps
	802.11n: 54 Mbps
Transmission Range	Max 400m (open horizon, 3dbi antenna)
Wireless Network Security	WEP: 64-bit/128-bit data encryption
	WPA, WPA2, 802.11i: advanced mode and PSK mode encryption: 128-bit TKIP, AES, TKIP/AES
Antenna Interface	SMA



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■ ■ ■ USR-WIFI232-604

## Serial RS485 to Wi-Fi 802.11 B/G/N Converter

It is used to transmit data between RS485 and Wi-Fi TCPIP transparently.

User can update the product to Wi-Fi control without knowing the Wi-Fi and TCPIP detail.

■ ■ ■ RS485 to Wi-Fi

- Support 802.11b/g/n wireless standard
- Support TCP/IP/UDP network protocol
- Support UART/GPIO/Ethernet data interface
- Support work as STA/AP/AP+STA mode
- Support router and bridge mode
- Support Built-in Webpage
- Support Httpd Client and WEB IO function
- Support DHCP and DNS
- Support transparent transmission mode
- Provide AT+ instruction set for configuration
- Support heartbeat signal and Wi-Fi connection indication
- Support UART auto-frame function
- Support HTTPD client
- Support Similar RFC2217
- Support webpage to serial
- Support firmware upgrade via webpage

### Serial

Port Number	1
Interface Standard	RS-485: 2 wire (A+, B-, GND)
Data Bits	5,6,7,8
Stop Bit	1,2
Check Bit	None, Even, Odd, Space, Mark
Data Bits	5,6,7,11
Baud Rate	300 bps - 460800 bps
Flow Control	RTS / CTS
Buffer	Send and receive 4K bytes respectively

### Basic Parameter

Size	84 x 84 x 25 mm
Operating Temp	-25 ~ 85°C
Storage Temp	-40 ~ 125°C
	5 ~ 95% RH (no condensation)
Input Voltage	DC 5 ~ 9 V
Working Current	170 ~ 350 mA @ 5V
Size	84 x 84 x 30 mm
Power	AP: 185mA @ 5V, STA: 175mA @ 5V

### Software

Virtual Serial USR-VCOM	Windows 2000 or higher (32 bit/64 bit)
Configuration	Built-in webpage
	Computer set-up software
	Serial AT command

### Accessories

	5V 1A high-quality power supply
	Cable, 3dbi antenna

### More

Certificate	FCC/CE
Warranty	2 years