

# Serial to WIFI and Ethernet Converter

## Specifications

### System Information

Processor	MIPS solution (32bit 360MHz)
RAM / Flash	8M / 1M

### Ethernet

Port Number	2 (with exchange function)
Interface Standard	8 pin RJ45 (2 Ethernet : LAN/WAN optional)
Rate	10/100 Mbps, MDI/MDIX, auto switch between cross and direct connection
Protection	2KV electromagnetism isolation Shell insulation blocking
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
Max TCP Connection	24
Frequency Range	2.412 GHz - 2.484 GHz
Transmit Power	802.11b:+ 20 dBm (Max) 802.11g:+18 dBm (Max) 802.11n:+15 dBm (Max)
Receive Sensitivity	802.11b:-89dbm 802.11g:-81dbm 802.11n:-71dbm
RF Model	DSSS / OFDM
Transmission Rate	802.11b: 11 Mbps 802.11g: 54 Mbps 802.11n: 54 Mbps
Transmission Range	Max 200m (open horizon, 3dbi antenna) WEP: 64-bit/128-bit data encryption
Wireless Network Security	WPA, WPA2, 802.11i: advanced mode and PSK mode Encryption: 128-bit TKIP, AES, TKIP/AES
Antenna Interface	SMA

■ ■ ■ USR-W630

## Serial RS232 RS485 to Wi-Fi And Ethernet Converter

It is wireless networking server, which is used for RS232/RS485 serial equipment to Wi-Fi or Ethernet networking. And It has 2 channel RJ45 port.

■ ■ ■ RS232 RS485 to Wi-Fi

- Support exchanger and router function
- Support Hardware AP, HTTPD Client and WEB IO
- Support TCPB Function
- Support hardware flow control (RTS/CTS) RS232 interface, male mouth(needle) consistent with computer pin definition
- Support WebSocket and UsrLink
- RJ45 connection, support wired Ethernet transmission
- Reload button, do not worry incorrect settings
- Support RS232 RS485 Data Interface, RS232 RS485 automatic switching
- Rich status indicator light:Power/Ready/Link/NET1/NET2
- Design with positioning hole, convenient installation
- Highest support baud rate 460800 bps
- TCP Server/TCP Client/UDP Client/ UDP Server  
TCP Server mode can support up to 32 Clients
- Support mutual conversion between Modbus TCP and Modbus RTU
- Pin 9 of the DB9 can be connected to power input (solder jumper on the back of PCB), used for power the sensor or the serial port cable power Convert Server.
- Username/Password Verification
- Support Webpage Configuration



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### Serial

Port Number	2 (1*RS-232, 1*RS-485) can not work at the same time
Interface Standard	RS-232: DB9 pin type RS-485: 2 wire (A+, B-, GND)
Data Bits	5,6,7,8
Stop Bit	1,2
Check Bit	None, Even, Odd, Space, Mark
Baud Rate	300 bps-460800 bps
Flow Control	RTS / CTS
Buffer	Send and receive 4K bytes respectively
Protection RS-485	Surge protection Lightning protection Over current protection Anti-static protection

RS-485 Pull-up and Pull-down Resistor 2.2 KΩ

### Basic Parameter

Size	103 x 105 x 28 mm
Operating Temp.	-25 - 85°C
Storage Temp.	-40 - 125°C
Storage Temp.	5 - 95% RH (no condensation)
Input Voltage	DC 5 ~40 V
Working Current	170 ~ 350 mA @ 5V AP: 170mA @ 5V STA: 170mA @ 5V EPHY(1): 210mA @ 5V EPHY(2): 250mA @ 5V

Power  
 AP: 60mA @ 12V  
 STA: 60mA @ 12V  
 EPHY(1): 80mA @ 12V  
 EPHY(2): 100mA @ 12V

### Software

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

### Accessories

5V 1A high-quality power supply  
 Female to female serial line  
 Cable, 3dbi antenna

### More

Certificate	CE, FCC, ROHS, TELEC
Warranty	2 years