**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
- **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
  - 802.11n: -74dBm
- **RF Model**: 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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**Serial RS485 to Wi-Fi 802.11 B/G/N Converter**

It is used to transmit data between RS485 and Wi-Fi TCP/IP transparently.

User can update the product to Wi-Fi without knowing the Wi-Fi and TCP/IP detail.

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**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

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**Serial RS485 to Wi-Fi**

- **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
- **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

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