

Serial To Wi-Fi and Ethernet Converter

USR-W630



Introduction

Serial To Wi-Fi and Ethernet Converter USR-W630, which can realize bidirectional transparent transmission between RS232/RS485 and Ethernet/Wi-Fi. It comes with 2 Ethernet ports LAN and WAN/LAN.

Through simple configuration via Web Server or AT command can assign working details, realize serial data and TCP/IP data package transparent transmission by converter. It can work as TCP/UDP Client, TCP/UDP server, HTTPD client and MQTT client. When working as TCP client or MQTT client, it supports SSL/TLS encryption, which can ensure the data security while data transmitting.

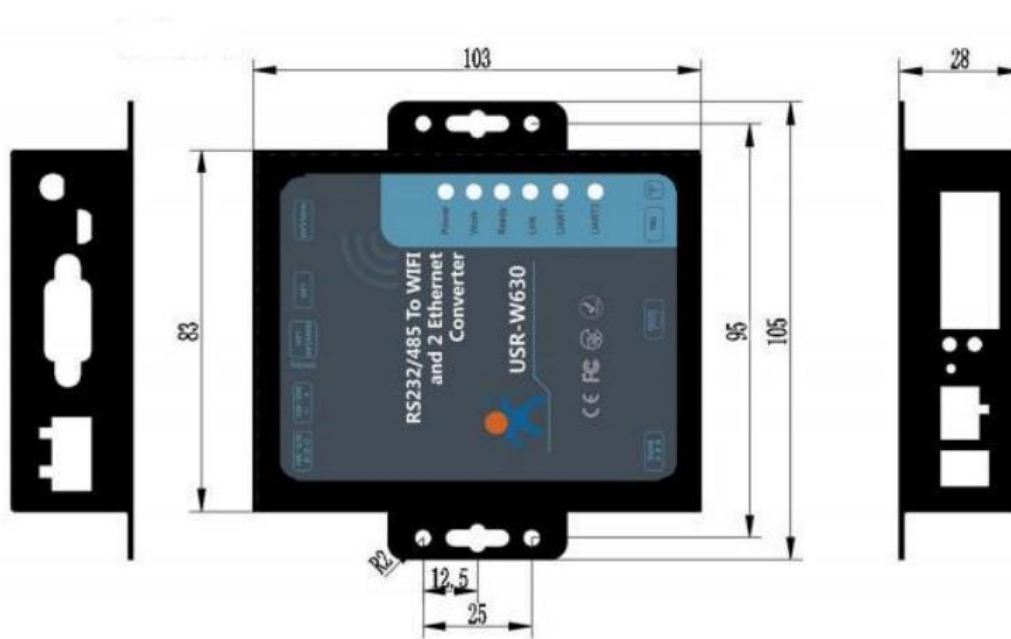
It can also support Modbus RTU/TCP protocol conversion, and Modbus Polling. It can be widely used in smart agriculture, smart medical treatment, factory monitoring and other scenarios.

Product Features

- WIFI@2.4GHz 802.11b/g/n wireless standards.
- Works as AP/STA/AP+STA, repeater, and bridge mode.
- Usrlink is supported.
- Supports TCP Server/TCP Client/UDP Server/UDP Client/HTTP Client/MQTT client mode.
- SSL/TLS encryption V1.2, compatible with lower version.
- Web socket function supported.
- 1 x RS232/485 serial port, 2 x 10/100M RJ45(LAN port and WAN/LAN port which can be configurable).
- 1.5KV electrostatic protection for Ethernet port.
- Registration packet, heartbeat packet, and timeout reset is supported.
- Support Web Server, setup software, serial/network AT command to configure module.
- Rich indicator: Power, Work, Ready, Link, UART1.
- Wide voltage DC 5~36V, support 5.5*2.1 standard power interface and terminal power.
- Double supply, one in and one out supply for device.
- Add hardware watch dog, makes more stable.
- Long distance communication: two serial server can transport for 280m.
- Remote firmware upgrading supported.

Dimensions

Unit: mm



Specifications

| Power | |
|-----------------------|--|
| Power Supply | DC: 5.0 ~ 36.0 V, Connector: 5.5*2.1 mm & 2 pin terminal block |
| Working Current | 170 ~ 350 mA @ 5V |
| Wi-Fi | |
| Standard | IEEE 802.11 b/g/n |
| Frequency Range | 2.412GHz-2.484GHz |
| Transmitter Power | 802.11b: +20dBm (Max.) |
| | 802.11g: +18dBm (Max.) |
| | 802.11n: +15dBm (Max.) |
| | User can configure it manually. |
| Receive Sensitivity | 802.11b: -89dBm |
| | 802.11g: -81dBm |
| | 802.11n: -71dBm |
| Wi-Fi Antenna | SMA-female |
| Wi-Fi Security | WPA-PSK(TKIP)/ WPA2-PSK(TKIP)/ WPA-PSK(AES)/ WPA2-PSK(AES) |
| Ethernet | |
| Port Number | 2 x RJ45, 1 x LAN + 1 x WAN/LAN configurable |
| Rate | 10 /100 Mbps, auto MDI/MDX |
| Protection | 1.5KV electromagnetic isolation |
| Serial Port | |
| Port Number | RS232/RS485, not work at the same time RS232: DB9 male connector RS485: 2-pin terminal block |
| Baud rate | 300 ~ 460.8Kbps |
| Data Bits | 5, 6, 7, 8 |
| Stop Bit(s) | 1, 2 |
| Parity Bit | None, Even, Odd, |
| Physical Character | |
| Dimensions(mm) | 103*105*28mm(L*W*H) |
| Operating Temperature | -40 ~ 85°C |
| Storage Temperature | -40~125°C |
| Operating Humidity | 5% ~ 95% (Non-condensing) |
| Storage Humidity | 5% ~ 95% (Non-condensing) |
| Installation | Wall mounting |
| Basic Features | |
| Network protocol | IP,TCP,UDP,HTTP,HTTPS,MQTT,SSL/TLS,ARP, DHCP |
| IP Assignment | Static/DHCP |
| DNS Service | √ |
| Built-in Webpage | √ |

| | |
|---------------------|--|
| Config Method | Built-in Webpage, Config Software, AT Command |
| Work Mode | TCP Server/TCP client/UDP Server/UDP Client/HTTPD client |
| MQTT | MQTT client, Standard MQTT protocol |
| SSL Encryption | √ |
| Modbus Gateway | Modbus TCP/RTU protocol conversion Multi-host polling: up to 16 hosts |
| WebSocket | √ |
| RF2217 Similar | √ |
| Registration Packet | √ |
| Heartbeat Packet | √ |
| Others | |
| Certificate | CE, FCC, RoHS |
| Warranty | 2 years |

Purchase & Support

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