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Communication Expert
of Industrial IOT

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.

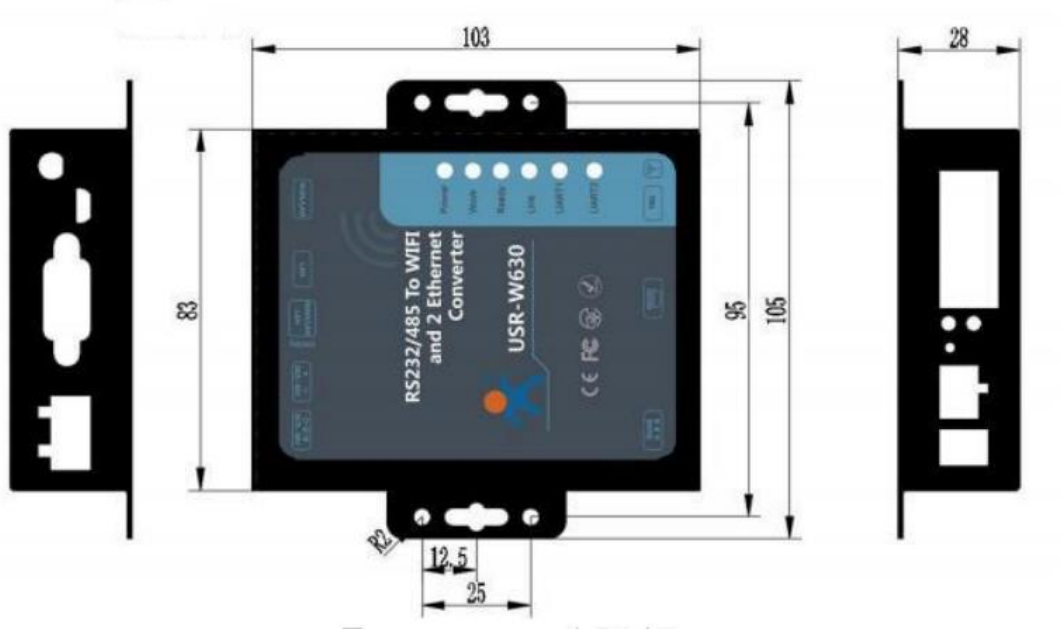
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Product Features

- 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℃
Storage Temperature	-40~125℃
Operating Humility	5% ~ 95% (Non-condensing)
Storage Humility	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

For more information, please visit our websites:

- Official website: **https://pusr.com**
- Official shop: **https://shop.usriot.com**
- Technical support: **http://h.usriot.com/**

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