

## USR-W610 Datasheet

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## 1. Product Overview

Serial To WiFi and Ethernet Converter USR-W610, which can realize bidirectional transparent transmission between RS232/RS485 and Ethernet/WiFi. 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. Can also supports Modbus RTU to TCP, Modbus Polling.

## 2. Product Features

- WIFI@2.4GHz 802.11b/g/n wireless standards.
- Supports TCP Server/TCP Client/UDP Server/UDP Client/HTTP Client mode.
- Works as AP or STA or AP+STA
- Serial ports includes RS232 or RS485
- Support electrostatic protection
- Identity packet function and heartbeat packet function.
- Support Web socket function.
- The function of timeout reset, timing reset function.



- Support Web Server, setup software, serial/network AT command to configure module.
- Hardware reload.
- Support usrllink
- It can work as router and bridge
- Rich indicator LED power, work, link, RXD, TXD
- 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
- Support MAC, USR-cloud, modbus polling
- Remote upgrade
- Add hardware watch dog, makes more stable
- Support websocket and realize the timing communication for serial port and netport.
- Support webpage, setting software, serial port AT command, net AT command
- Long distance communication: two serial server can transport for 280m
- Design for location hole, convenient for install

# 3. Product Specifications

| Ethernet Port       |   |
|---------------------|---|
| Port Number         | 1 Ethernet Ports: 1 x WAN/LAN                                 |
| Buffer              | Rx/TX: Max 16K bytes  |
| Protection          | 2 KV Electromagnetic isolation for Ethernet port              |
| Network Protocol    | IP/TCP/UDP/DHCP/DNS/HTTP/ ARP/ICMP/Web socket/Httpd client    |
| Speed Rate          | 10/100 Mbps, MDI/MDIX   |
| Wi-Fi               |   |
| Certificate         | FCC/CE  |
| WiFi                | 802.11 b/g/n  |
| Frequency Range     | 2.412GHz-2.484GHz   |
| Transmit Power      | 802.11b: +19dBm(Max),802.11g: +18dBm(Max),802.11n:+17dBm(Max) |
| Receive Sensitivity | 802.11b: -89dBm,802.11g: -81dBm,802.11n: -73dBm               |

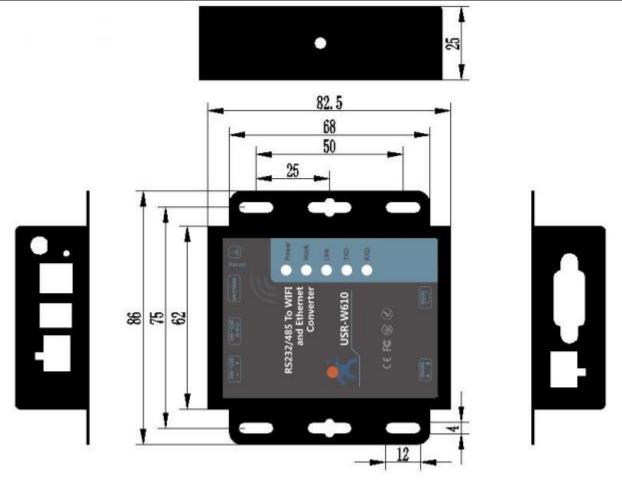


| Hardware                              |   |
|---------------------------------------|---|
| Interface Standard                    | RS232: 300~460.8Kbps<br>RS485:300~230.4Kbps                                       |
| Input Voltage                         | DC5∼36V   |
| Operating Temp.                       | -40c∼ 85c   |
| Storage Temp.                         | -40c∼ 125c  |
| Size                                  | 86*82.5*25mm(L*W*H)   |
| Software                              |   |
| Network Mode                          | Station/AP/AP+Station   |
| Security                              | WEP/WPA-PSK/WPA2-PSK  |
| Encryption                            | WEP64/WEP128/TKIP/AES   |
| Work Mode                             | Transparent transmission / serial AT command/ HTTP Client、Modbus TCP<=>Modbus RTU |
| Setting Command                       | AT+command  |
| Networking Protocol                   | TCP/UDP/ARP/ICMP/DHCP/DNS/HTTP  |
| Max. Client Number in TCP Server Mode | 24  |
| Configuration                         | Web sever+ AT command   |
| More                                  |   |
| Warranty                              | 2 years   |

## 4. Product Dimensions

Unit: mm





## 5. Contact Us

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