PUSR®
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Communication Expert
of Industrial IOT

Dual Band Wi-Fi Device Server

USR-W660



Introduction

USR-W660 is a Wi-Fi 6 industrial wireless device with high speed, wide connection, low delay, and high stability. The measured rate of Wi-Fi 6 is up to 800Mbps. In AP hotspot mode, it can carry more than 8 Wi-Fi users. It integrates rich hardware interfaces: 1*RS232, 1*RS485, Ethernet ports (1LAN+1WAN/LAN). It supports AP/STA/AP+STA/bridge mode and can provide stable and reliable networking solutions for different scenarios and industries.

This device adopts industrial-grade standards: wide temperature and wide voltage, EMC protection. In software, it supports MODBUS, MQTT, TCP, UDP and other transmission protocols. The device supports single-link fast roaming. In a wireless local area network composed of multiple APs, roaming can be realized without AP switching operations. The built-in software and hardware dual watchdog, fault self-recovery can ensure the device operate stably and reliably in different harsh environments and industry scenarios like AGV automated transportation, robot, smart medical, smart storage, smart factories etc.

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Product Features

Stable And Reliable

- Metal housing, IP30 protection
- Wide operating temperature: -35℃~+70℃
- EMC protection: Surge protection, level 3; ESD protection, level 3; EFT protection, level 3; IEC61000
- Wide voltage input: DC 9-36V, with power reverse protection.
- Built-in hardware watchdog, fault self-detection, self-repair, firmware backup and restore functions to ensure system stability without crashing.
- Supports wall mounting, Din rail mounting, desktop placement.
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Flexible Networking

- Support WIFI6 technology (IEEE 802.11 ax), support dual-band WIFI (2.4 and 5G) AP/STA/AP+STA/bridge mode.
- Support fast Wi-Fi roaming, network switching as low as 100ms.
- Support Gigabit ports: 1 x WAN/LAN, 1 x LAN.
- Support RS232/RS485, serial port data acquisition is easier.
- Compatible with mainstream industrial protocols: TCP/UDP/MODBUS/HTTP/MQTT/SNMP, etc.
- Supports connecting to mainstream cloud platforms such as Alibaba Cloud and AWS Cloud, making it easy for devices to go to the cloud.
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Powerful features

- Support a complete anti-drop mechanism to ensure the stability of data transmission.
- Support wired/STA multi-network intelligent backup function, keep the link always unblocked.
- Support PUSR service, users can open the built-in webpage operation and maintenance of wireless client through PUSR platform, which facilitates centralized management of equipment



Support SNMP, NTP time calibration, MAC-IP binding, anti-access restriction and other special functions.

Dimensions

Unit: mm

With pleural spreading

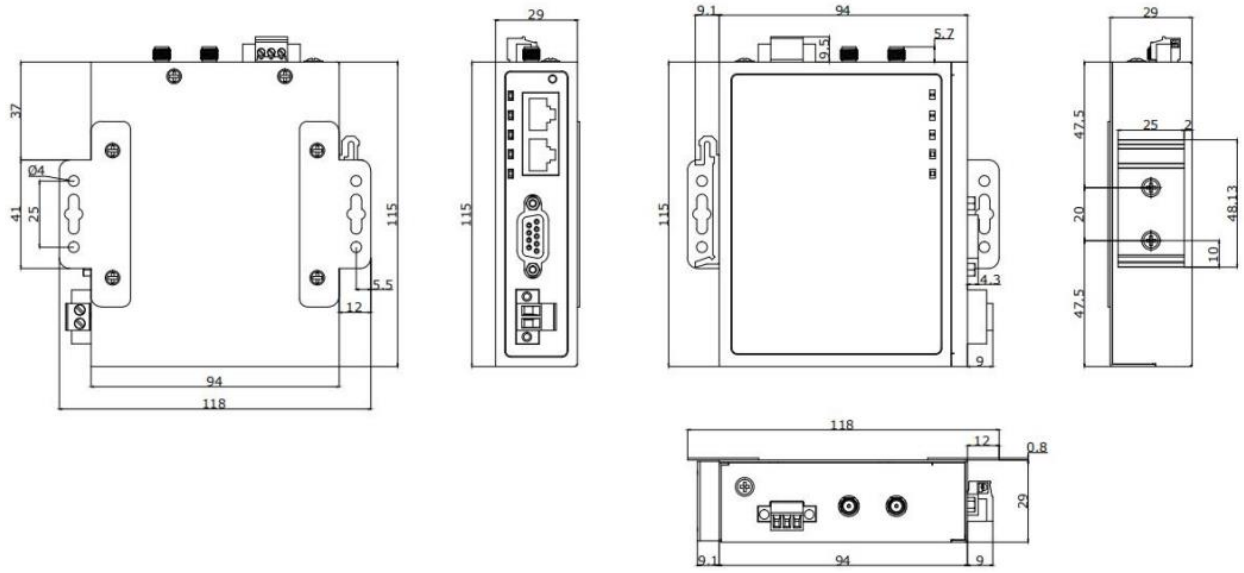


Fig.1 Dimension

With pleural holding

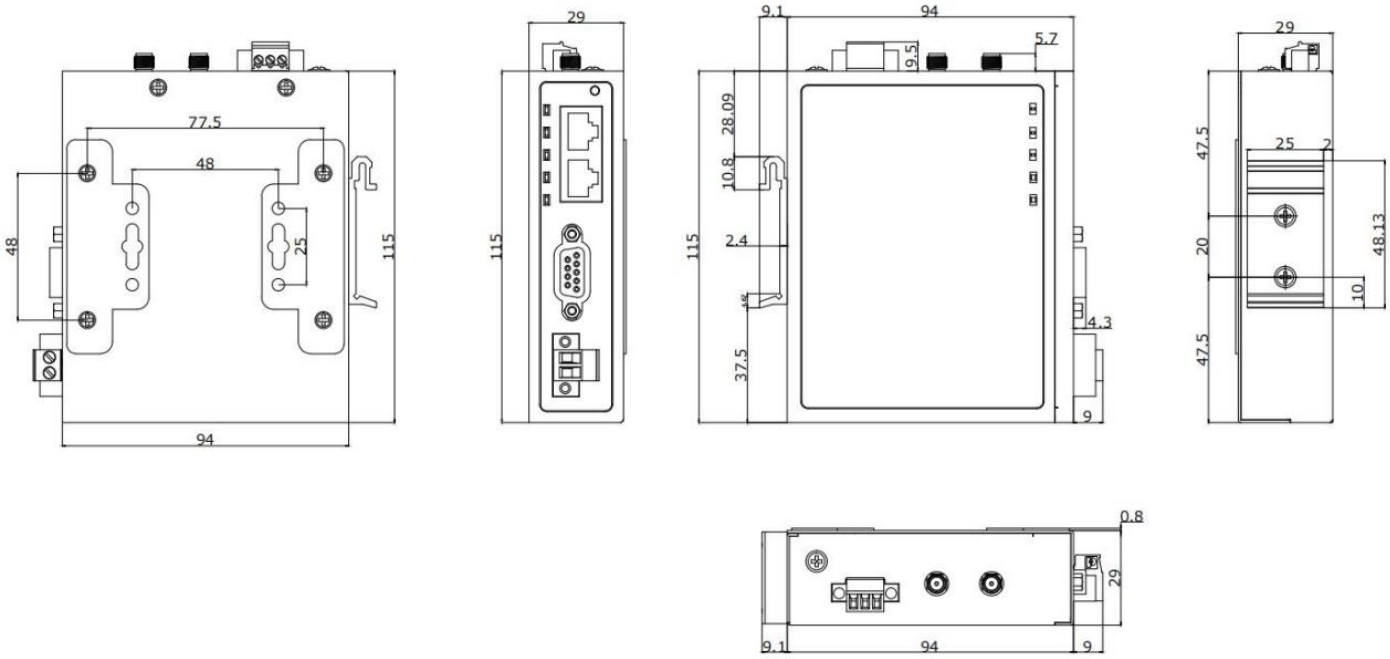


Fig.2 Dimension

Specifications

Items	Description
Power Supply	DC: 9~36V, 2-pin terminal blocks, reverse polarity protection, surge protection

Working Current	Average: 600mA@12V, max: 1.35A @12V
Serial port	
No.	1 x RS485, 1 x RS232, can't work simultaneously.
Baud rates	RS232: 1200 ~ 115200bps RS485: 1200 ~ 230400bps
Data bits	7, 8
Stop bits	1, 2
Parity	NONE, ODD, EVEN
Packaging Interval	Range: 1 ~ 3000ms, default: 50ms
Packaging Length	Range: 5 ~ 1500 bytes, default: 1000 bytes
Ethernet Ports	
No.	2 x Ethernet ports: 1 x WAN/LAN(configurable), 1 x LAN
Interface	RJ45, 10/100/1000 Mbps, compliance with IEEE 802.3, supports auto MDI/MDIX, 1.5KV network isolation transformer protection
Wi-Fi	
Standards & Frequency	IEEE 802.11b/g/n/ac/ax, 2.4GHz & 5.8G
Working Mode	AP/STA/AP+STA/Bridge
Data speed	1201Mbps(5.8GHz) & 573.5Mbps(2.4GHz)
MU-MIMO	2 x 2
OFDMA	DL-OFDMA 8(8 users); UL-OFDMA (4 users)
Covering distance	200 meters by line of sight.Actual transmission distance depends on environment of the site.
Wi-Fi Users	8 +
Antenna	2 x SMA-female
Wi-Fi Roaming	√
Physical Property	
Casing material	Metal shell, IP30 protection
Dimensions	115*94*29mm(L x W x H, antenna pedestal,terminal block and DIN Rail are not included)
Installation	Wall mounting, Din rail mounting, desktop placement
EMC	Surge protection: level 3, IEC61000 ESD protection: level 3, IEC61000 EFT protection: level 3, IEC61000
Operating temperature	-35℃～ +70℃
Storage temperature	-40℃～+125℃
Operating humidity	5% ~ 95% RH, non-condensing
Storage humidity	1% ~ 95% RH, non-condensing
Software Function	
Network protocols	TCP, UDP, HTTP, TLS, MQTT, ARP, DHCP, ICMP, PPPoE, IPv4, DNS, SNMP, NTP,
Modbus Gateway	Modbus RTU/TCP protocol conversion, Modbus multi-host polling
IP	DHCP/StaticIP
MQTT	standard MQTT protocol, 16 subscription topics and 16 publish topics
IOT PLATFORMS	AWS IOT, Alibaba cloud, PUSR cloud
User Configuring	Web console(HTTP)
Others	
Reload	Pinhole reset button
Indicators	1 x RS485, 1 x RS232, 1x WLAN, 1 x RUN, 1 x PWR

Ground protection	Screw
APPROVALS	
Regulatory	CCC, CE/RED*, RoHS*, WEEE*, FCC*

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