

ZY-S2W

Din-Rail WiFi Serial Device Server



Features

- RS-485 to Ethernet connectivity for seamless integration
- 802.11b/g/n standards for wireless communication
- Modbus RTU to TCP conversion with gateway function
- 9 ~ 24 V wide voltage input via terminal block
- 4-category LED indicators for real-time status:
 - LINK: Blue (TCP connection) / Green (system running)
 - WiFi: Blue (AP or STA mode) / Green (WiFi operational)

Specifications

Mechanical

RS-485	3.5mm pitch terminal block
Power Input	3.5mm pitch terminal block
Dimensions	89L*37W*83Hmm

Serial Port Parameters

Pinout	485A, 485B, GND
Parity	None, Odd, Even
Baud Rate	4800~921600bps
Stop Bits	1, 2
Data Bits	7~8
Flow Control	NONE

Specifications

■ Wireless Parameters

Antenna	Magnetic base antenna
Wireless Standard	802.11 b/g/n
Frequency Range	2.412GHz-2.484GHz
Data Rate	IEEE 802.11 b Standard Mode: 1,2,5.5,11Mbps IEEE 802.11n Standard Mode: 150Mbps @ HT40(MCS7) IEEE 802.11g Standard Mode: 6, 9, 12, 18, 24, 36, 48, 54Mbps
Transmit Power	IEEE 802.11n: 12-14dBm@HT20 MCS7 IEEE 802.11g: 16dBm IEEE 802.11b: 18dBm
Receiver Sensitivity	HT20 MCS7 : -70dBm@10% PER(MCS7) OFDM 54M: -75dBm@10% PER CCK, 11M: -88dBm@ 8% PER

■ Communication Parameters

Wireless Mode	STA/AP
Security	WEP64, WEP128, TKIP and AES, Auto (TKIP/AES)
Operating Mode	TCP Server, TCP Client (simultaneous connection support), UDP
Conversion Protocol	Modbus TCP, transparent transmission
Modbus Gateway	Standard Modbus mode, ZLMB mode
User Configuration	Windows software, serial configuration
Connections	TCP Server: 8; TCP Client: 3 destination IPs
Communication Types	Socket, virtual serial port
Network Protocols	TCP/UDP/ARP/ICMP/DHCP/DNS/MQTT/NTP

■ Hardware

Power Supply	9 ~ 24 V (30 mA @ 12 V)
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■ Operating Environment

Operating Temperature	-40~85°C
Storage Temperature	-45~100°C
Operating Humidity	5%~95% (Non-condensing)
Storage Humidity	5%~95% (Non-condensing)