

### Dual Modbus RTU to ModbusTCP + WiFi Converter, Model SC10MK2 W X E



Modbus is an industry adopted communication protocol. Serial Modbus to Wi-Fi Modbus TCP Converter provides a perfect solution to make your Serial devices Internet / Ethernet ready, instantly, via WiFi LAN making it possible for your software to access serial devices anywhere and anytime.

It can be configured through any WiFi device. The Wi-Fi function maintains interoperability within the 2.4 GHz frequency band, offering full compatibility with 802.11b/g/n networks. You can connect a wireless device in Soft AP mode for configuration.

#### Features

- 2 ports ( RS232\*1, RS422/485\*1) Modbus RTU/ASCII To Modbus TCP Gateway + WiFi
- CPU : 32-bit Microprocessors
- RTOS

#### Ethernet

Port Type : RJ45 Connector  
Speed : 10 /100 M (Auto Detecting)  
Protocol : ARP, IP, ICMP, UDP, TCP, HTTP, DHCP  
Modbus TCP to Modbus RTU Slave & Modbus TCP To Modbus ASCII Slave Mode  
Modbus RTU to Modbus TCP Slave & Modbus ASCII To Modbus TCP Slave Mode  
Mode : TCP Server / TCP Client / UDP  
Setup : HTTP Browser Setup  
Security : Setup Password  
Protection : Built-in 1.5KV Magnetic Isolation

#### WiFi port

- ✓ 2.4G WiFi IEEE 802.11 b/g/n
- ✓ Support Station Mode
- ✓ Spread Spectrum Technology: DSSS, OFDM
- ✓ Tx Power 11b: Maximum 20 dBm
- ✓ Tx Power 11n: Maximum 14 dBm
- ✓ Rx Sensitivity: -75 dBm @ 54 Mbps, -88 dBm @ 11Mbps
- ✓ Transmission Rate: 54 Mbps (max) with Auto fallback
- ✓ (54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps)
- ✓ Transmission distance: Up to 100 meters (@12 Mbps, in open areas)
- ✓ Security: WEP 64-bit/128-bit data encryption, AES, WPA2
- ✓ Antenna Connector: Reverse SMA, 2 dBi Antenna
- ✓ Network Mode: Infrastructure

#### Serial Ports \*2

Port : RS232 \* 1, RS422/485 \* 1 Port (RS232 : 3 Wire only)  
Port : RS422 / 485  
Speed : 300 bps to 230.4 Kbps  
Parity : None, Odd, Even, Mark, Space  
Data Bit : 5, 6, 7, 8

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Stop Bit : 1, 2  
RS-232 Pins : Rx, Tx, GND  
RS-422 : Rx+, Rx-, Tx+, Tx-  
RS-485 : Data+, Data-

15KV ESD for all signals  
RS485 Signals Surge Protected  
Connectors : DB9 Male & 4 Pin Screw type Terminal Block

#### **Power**

24V DC. Range DC 9 to 32 V, 500mA@24V. Screw Terminal and DC Jack

#### **LED Indicators**

PWR, LAN, WiFi, Port1, Port2

#### **Environment**

Operating Temperature : -20°C to 70°C  
Storage Temperature : -25°C to 80°C

#### **Mechanical**

Dimensions : 100 \* 90 \* 250 mm  
Weight : 150 gm  
Enclosure : Plastic

#### **Ordering Code : SC10MK2 W X E**

SC10MK2 : Base Model for 2 Port Modbus RTU to ModbusTCP Converter  
W : WiFi (Optional)  
X E : Fixed