

## Dual Port Modbus RTU/ASCII to Modbus TCP Converter, SC10MK2 MT Series



Modbus is an industry adopted communication protocol.  
SC10MK2 MT is a 2 Port Modbus RTU to Modbus TCP Converter.  
SC10MK2 MT allows up to 8 Modbus/TCP masters and with 32 simultaneous requests per Master, to get the polling data via the Ethernet. High end CPU makes it an ideal choice for applications like Energy Meters, Solar controls, Data connectivity applications between DCS, PLC, HMI, Sensors, Measuring instruments etc.  
It is specially designed to operate with 230V AC / 48, 110, 220V DC.

It has Dual Power Input with an additional option of PoE Power

### Hardware

CPU : MT7688AN MIPS CPU, 580 MHz  
RAM : 128M Bytes DDR2 RAM  
ROM : 32M Bytes Flash ROM  
OS : Open wrt Linux OS

- Support Modbus TCP, Modbus RTU, Modbus ASCII
- TCP to RTU support 8 simultaneous TCP Master, 32 simultaneous requests per Master

### Ethernet Port \* 1

Port Type : 1 Port, RJ45 Connector  
Speed : 10 /100 Mbps (Auto Detection)  
Protocol : ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, NTP, DNS  
Setup : HTTP Browser Setup, IE, Chrome, Firefox, Console  
Security : Setup Password  
Protection : Built-in 1.5KV Magnetic Isolation

### Serial Ports \*2

Port 1 : RS232  
Port 2 : RS422 / 485 Surge Protected  
Speed : 300 bps to 921.6 K bps  
Parity : None, Odd, Even  
Data Bit : 5, 6, 7, 8  
Stop Bit : 1, 2  
RS-232 Pins : Rx, Tx, GND  
RS-422 : Rx+, Rx-, Tx+, Tx- ( Surge Protect )  
RS-485 : Data+, Data- ( Surge Protect )  
15KV ESD for all signals

Auto Direction Control

### Wi-Fi (Optional)

Standard : 802.11b/g/n  
Data Rate : 11/54/72.2 Mbps @ 20 MHz Band Width  
Modulation : DSSS, OFDM

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Frequency : 2.4GHz

Tx Power 11b : Max. 22dBm  
Tx Power 11g/n : Max. 19dBm

Rx Sensitivity : -76dBm@54Mbps, -89.5dBm@11Mbps  
Tx Rate : Max. 54Mbps with auto fallback  
Tx Distance : Up to 100m  
Security : WEP 64-bit / 128-bit data encryption, WPA / WPA2 personal  
Antenna : 2 dBi, RP-SMA connector

Network Mode : Infrastructure, Soft AP (for Setup)  
Mode : TCP Server/ TCP Client/ UDP/ Virtual Com/ Pairing

#### Power Supply Options

Dual Power : 230V AC Range 165V AC to 265V AC, 3 Pin Terminal block  
: 48, 110, 220V DC. 3 Pin Terminal block.  
: < 4W  
: Power over Ethernet 802.3 af (optional)

#### Other Features

Config Utility : WIN-10, Win-8, Win-7, Vista , Win-XP, Win-2003 server, Win-2000  
Security : Login Password  
Indications : LED's for SYS, PWR, LAN, RX, TX  
Real Time Clock  
Watch Dog Function

#### Mechanical

Dimensions : 110 \* 33 \* 113 mm (H \* W \* D) for DC Supply  
: 110 \* 33 \* 140 mm (H \* W \* D) for AC Supply

Weight : 450 gm  
Housing : Metal  
Mounting : DIN Rail

#### Environment

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

#### Product Ordering Code : SC10MK2 MT X YYY P W

SC10MK2 : Base Code for 2 Port Modbus RTU to Modbus TCP Converter  
MT : Fixed  
X : A for AC, D for DC Power Supplies  
YYY : 230 for 230V AC. 48, 110, 220 for resp DC Input  
P : PoE-af Power optional  
W : WiFi Optional