

Dual Port Modbus RTU/ASCII to Modbus TCP Converter, SC10MK2 485 MT



SC10MK2-485 MT is a 2 Serial Port Modbus RTU to Modbus TCP protocol converter. 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. Both the Serial ports are RS485/422 configurable.

- Modbus TCP Master : Both ports number need to be different e.g 502 & 503
- 8 simultaneous TCP Master, 32 simultaneous request for each TCP Master
- 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

Ethernet Port * 1

Port Type : 1 Port, RJ45 Connector
Speed : 10 /100 Mbps (Auto Detection)
Protocol : ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, NTP, FTP
Mode : RTU Master & Slave, ASCII Master & Slave, TCP Master & Slave
Setup : HTTP Browser Setup, Built-in Web Server (IE & Netscape)
Security : Setup Password
Protection : Built-in 1.5KV Magnetic Isolation

Serial Ports * 2

Port : 485/422 * 2 Port
RS485 Pins : Data+, Data- GND, Surge Protected
RS422 Pins : Rx+, Rx-, Tx+, Tx-, GND, Surge Protected
Speed : 300 bps to 921.6 Kbps
Parity : None, Odd, Even
Data Bit : 5, 6, 7, 8
Stop Bit : 1, 2
15KV ESD for all signals

Wi-Fi (Optional)

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

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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 : 24V DC. (Range 9 to 24V DC). 200 mA @ 12V, Terminal block
: DC Jack for External Adapter (Adapter not a standard Supply)
: 48, 110, 220V DC. 3 Pin Terminal block
: 230V AC Range 165V AC to 265V AC, 3 Pin Terminal block
: 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 485 MT X YYY P W

SC10MK2 485 : Base Code for 2 Port RS485/422 Modbus RTU to Modbus TCP
Converter
MT : Fixed
X : A for AC, D for DC Power Supply
YYY : 230 for 230V AC. 24, 48, 110, 220 for resp DC Input
P : PoE Power option
W : WiFi Optional