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Connecting. Converting. Leading !

Dual Port Modbus RTU/ASCII to Modbus TCP, Model SC10MK2



Modbus is an industry adopted communication protocol based on RTU, ASCII, and TCP protocols for various applications. These three protocols are commonly used by various applications in the industry such as DCS, PLC, HMI, Power meters, Solar, various Sensor and Measuring instruments. SC10MK2 has 2 Serial ports and converts between Modbus RTU/ASCII and Modbus TCP protocols. Users can easily integrate Modbus TCP and Modbus Serial devices. Configuration is by Web browser. It has Dual Power Input with an additional option of PoE Power

Hardware

CPU : 32-bit ARM Cortex-M4 CPU, 120 MHz
RAM : 256K bytes SRAM
ROM : 1M bytes Flash ROM

Ethernet

Port Type : 1 port, RJ45 Connector
Speed : 10 / 100 Mbps, Auto Detect
Protocol : ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, Modbus RTU, Modbus TCP
Mode : TCP Server / TCP Client / UDP / Pairing. Single Host
Setup : HTTP Browser Setup (IE)
Security : Login Password
Protection : Built-in 1.5KV Magnetic Isolation

NOTE : Modbus TCP Master : In the TCP Settings, the Port number needs to be different e.g 502 & 503

Serial Port

Ports : 2 Ports. Auto Detect
Connectors : RS232 * 1 Port, DB9, RS422 / 485 * 1 Port, Screw Terminal
Speed : 300 bps to 230.4 Kbps
Parity : None, Odd, Even, Mark, Space
Data Bit : 5, 6, 7, 8
Stop Bit : 1, 2
Port 1 : RS232 : Rx, Tx, GND, RTS, CTS, DTR, DSR, DCD
Port 2 : RS422 : Rx+, Rx-, Tx+, Tx-, Surge Protected
 : RS485 : Data+, Data- Surge Protected
Built in RS422 / RS485 pull high / low Resistor
15KV ESD for all signals

Watch Dog Function

Configuration : Support Win-8, Win-7, Vista, Win-XP, Win-2003 server, Win-10
LED Indications : SYS (PWR), Port 1, Port 2
MTBF : > 100,000 hours

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Power

Dual Input : DC 9 to 30 V, 110mA @ 12VDC, DC Jack
: 24V DC, Terminal Block
: PoE Power Input Option

Power Consumption: 1.5W

Environment

Operating Temperature : -10 to 70°C
Storage Temperature : -20 to 85°C
Humidity : 10 to 95%rh Non Condensing

Mechanical

Dimension : 90 * 60 * 20 mm (W * H * D)
Weight : 100 gm
Mounting : Din Rail and Panel mounting options

Model Code Selection : SC10MK2 P

SC10MK2 : Base Model for Dual Port Modbus RTU/ASCII to Modbus TCP Converter
P : PoE Power option