

2 Port Modbus RTU to Modbus TCP Gateway Data Concentrator, SC10MK2 DataCon



SC10MK2 DataCon is a 2 port Modbus RTU to Modbus TCP and WiFi Converter along with Data concentration feature. If your Slave devices have scattered addresses or if you need to increase the speed of your communication then SC10MK2 DataCon collects the data from the Slaves & stores in a pre configured mapping table. This data is then available to the SCADA efficiently with very few number of queries

SC10MK2 Datacon Modbus Data Concentrator has ability to perform up to 100 Modbus commands on each function code for reading/writing Modbus slave devices via RS232/485 and allows up to 8 ModbusTCP masters to get the polling data via the Ethernet and Wi-Fi. It provides a built-in Web Server to configure each Modbus command. Port 502 can be used for both Serial Inputs

Features

- Support Modbus TCP, Modbus RTU
- Support 8 simultaneous TCP Masters

Hardware

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

Ethernet

Port Type : 1 Port. RJ-45 Connector
Speed : 10 /100 M bps (Auto Detecting)
Protocol : ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, NTP, FTP, Modbus RTU, Modbus TCP
: Both Ports can support 502 Port address
Mode : TCP Server / TCP Client / UDP
Setup : HTTP Browser Setup (IE & Chrome)
Security : Setup Password
Protection : Built-in 1.5KV Magnetic Isolation

Serial Ports * 2

Port 1 : RS232. (RX, TX only)
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

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WiFi port (Optional)

Standard : 802.11b/g/n
Data Rate : 11/54/72.2 Mbps @ 20Mhz 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
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
Setup : HTTP Browser Setup (IE, Chrome)
Security : Login Password

Power

DC 24V. Range 9 to 32V on Screw type terminals or DC Jack. 200mA@12V

Other Features

Indications : LED's for SYS, LAN, RX, TX, WiFi
Real Time Clock
Watch Dog Function

Environment

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

Mechanical

Dimensions : 95 * 95 * 27 mm (W * D * H) including mountings
Weight : 110 gm
Housing : Plastic

Product Ordering Code : SC10MK2 DataCon 24 W

SC10MK2 : Base Mode for 2 Port Modbus RTU to Modbus TCP Gateway
DataCon : Data Concentrator Gateway
24 : 24V DC Powered
W : WiFi Optional