

San Telequip (P) Ltd.,
504, 505 Deron Heights, Baner Road
Baner, Pune 411 045, India
Phone : +91-20-27293455, 9764027070, 8390069393
email : info@santelequip.com



Connecting. Converting. Leading !

Datasheet for Modbus RTU/ASCII to Modbus TCP Protocol Converter, Model SC10MK



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. SC10MK 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 supports 8 simultaneous TCP Master. 32 simultaneous requests per Master. Serial Master can access 8 TCP Slaves

CPU : 32-bit ARM 7 CPU, 80 MHz
RAM : 8M bytes SRAM
ROM : 4M bytes Flash ROM
µClinux OS

Ethernet

Port Type : RJ45 Connector, Built-in 1.5KV Magnetic Isolation
: 10 /100 M bps (Auto Detect)
Modes : RTU Master & Slave , ASCII Master & Slave, TCP Master & Slave
It supports 8 simultaneous TCP Master. 32 simultaneous requests per Master. Serial Master can access 8 TCP Slaves

Protocol : ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, DNS, NTP, Telnet
Configuration : Built-in Web server. Easy Operation
Setup : HTTP Browser Setup (IE & Netscape), Console, Password

OS Supported : Win2000/2003/XP/Vista/Win7/Win8/uClinux
Security : Setup Password
Online Firmware update via Ethernet

Serial Port

Port : RS232 * 1 Port or RS422/RS-485 * 1 Port
Speed : 300 bps to 230.4 K bps
Parity : None, Odd, Even, Mark, Space
Data Bit : 5, 6, 7, 8
Stop Bit : 1, 2
RS-232 Pins : Rx, Tx, GND, RTS, CTS, DTR, DSR, DCD
RS-422 : Rx+, Rx-, Tx+, Tx-
RS-485 : Data+, Data-
Support Automatic Data Control
Built in RS-422/RS-485 Terminal Resistor
Protection : 15KV ESD for all signals
Protection : 600W Surge Protection on RS485/RS422 signals

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Watch Dog Function
LED Indications : SYS (PWR), LAN, Tx/Rx
MTBF : > 100,000 hours

Power

Power Supply : 24V DC. Range 9 to 24V DC
Power Consumption : 2.5W. 200ma@12V DC

Environment

Operating Temperature : -10°C to 70°C
Storage Temperature : -20°C to 80°C
Humidity : 10 to 95%rh Non Condensing

Mechanical

Dimensions : 100 * 90 * 25mm (W * H * D)
Weight : 140 gm
Mounting : DIN-Rail or Wall mount

Model Code : SC10MK

SC10MK : Base Model for Modbus RTU/ASCII to Modbus TCP Converter
: 24V DC Operated