Devolinx STM-501C

1-Port MODBUS TCP to RTU/ASCII Gateway

Features

- ▶ **DIN-Rail or Panel Mount**
- ▶ **Supports 10/100 Mbps Ethernet**
- ▶ **Supports RS-232, RS-422, and RS-485 Serial Interface**
- ▶ **Supports LAN and WAN Communications**
- ▶ **Management Access Password Protected**
- ▶ **Supports up to 8 MODBUS TCP Master to MODBUS RTU/ASCII**
- ▶ **Supports Inactive Timeout**
- ▶ **Supports Loop Back Mode**

▶ Specifications

The STM-501C, MODBUS gateway allows the legacy MODBUS RTU/ASCII devices to operate on a MODBUS TCP network. It allows either MODBUS serial master or slave to communicate with MODBUS TCP's slave or master.

Modbus TCP masters to Modbus RTU/ASCII slaves: STM-501C allows multiple MODBUS TCP masters to communicate with a MODBUS serial network. Since MODBUS serial network can only handle one query at one time, queries from different masters are pipelined and processed one by one.

Modbus RTU/ASCII master to Modbus TCP slaves: When STM-501C function as MODBUS RTU/ASCII master to MODBUS TCP slave gateway, STM-501C can connect up to 8 MODBUS TCP slave. User can specify a UID range for each MODBUS TCP slace.

Inactive timeout: STM-501C provides inactive timeout that allows user to specify a time period to disconnect TCP/IP connection if there is no activity in the network. It could be the peer of the connection is down if the connection does not tear down it would occupy one connection slot and prevent any another connection again.

Configuration tools: User friendly management software provides an easy way to configure STM-501C. It can search all serial device servers within a local area network independent of its subnet. It can also find a serial device servers of a specific IP address over wide area network. STM-501C can also be configured by its console port or through telnet connection. STM-501C also provides web interface for user to configure it by a web browser.

▶ Specifications

Serial Buffer
Output: 64K bytes
Input: 8K bytes per port

Serial Connection
DTE – BD-9 male

LAN
10/100 Mbps Auto-detecting – 10 Base T,
100 Base TX

Serial Interfaces
RS-232 - TX, RX, RTS, CTS, DTR, DSR, DCD, GND
RS-422 – TX+, TX-, RX+, RX-, RTS+, RTS-, CTS+, CTS-, GND
RS-485 - Data +, Data –, GND

Data Rate
110 bps to 230.4 k bps

Parity
none, even, odd, mark, space

Data Bits
5, 6, 7 or 8

Stop Bits
1, 1.5 or 2

Protocol
TCP, IP, ARP, DHCP, Telnet, HTTP, UDP, ICMP

Management
Manager software, Serial Console, Telnet,
Web server Firmware upgradeable

Dimensions
3.35 x 4.5 x 0.90 in (8.5 x 11.5 x 2.3 cm)

Power Requirements
7 ~ 30 VDC
500 mA

Operating Temperature
0 to 50 °C (32 to 122 °F)

Storage Temperature
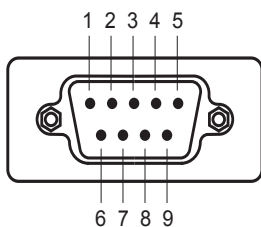-20 to 60 °C (-4 to 140 °F)

Humidity
0 – 90% Non-Condensing

Approvals
CE, FCC

Warranty
5-Year Warranty

▶ Pin Assignments

DB-9 Male

DB-9 Pin	RS-232	RS-422	RS-485
1	DCD	RX-	-
2	RXD	RX+	-
3	TXD	TX+	DATA+
4	DTR	TX-	DATA-
5	GND	GND	-
6	DSR	CTS-	-
7	RTS	CTS+	-
8	CTS	RTS+	-
9	RI	RTS-	-

▶ Ordering Information

STM-501C   1-Port MODBUS TCP to RTU/ASCII Gateway

*** POWER ADAPTER SOLD SEPARATELY ***

Optional Accessories

PA-FCS-US   Power Adapter For FCS/STM, 12V 0.8A, 100-240V (US Plug)
PA-FCS-UK   Power Adapter For FCS/STM, 12V 0.8A, 100-240V (UK Plug)
PA-FCS-EU   Power Adapter For FCS/STM, 12V 0.8A, 100-240V (Euro Plug)
DIN-RAIL-KIT   DIN Rail Mounting Kit

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