

# 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 slave.

**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

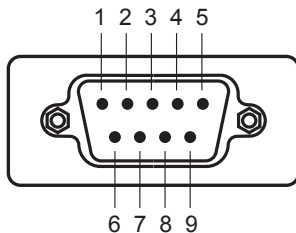
### Approvals

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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