

STM-601C Series

Industrial Modbus TCP (Two Ethernet Ports) to
One Serial (232,422,485) RTU/ASCII Gateway



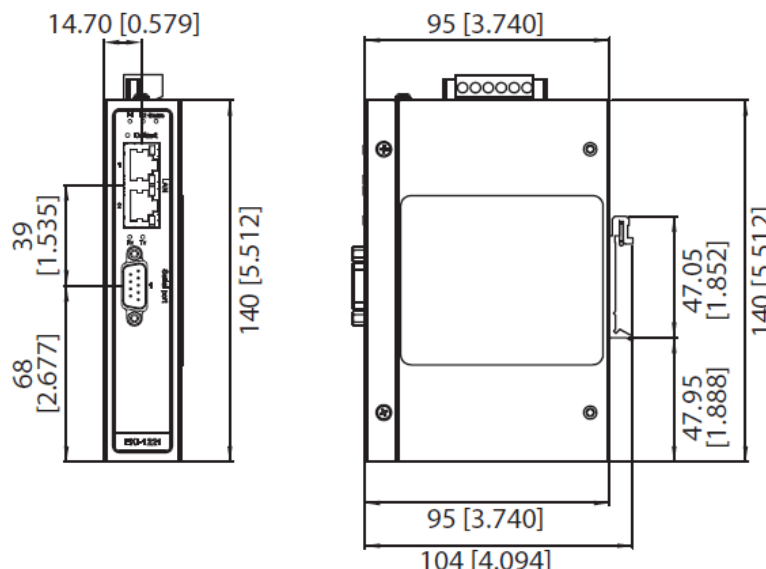
Features

- ▶ 2*10/100 Mbps Ethernet Ports for LAN Redundancy
- ▶ Integrates Modbus TCP and Modbus RTU/ASCII Networks
- ▶ Supports Up to 921.6 kbps and Any Baud Rate Setting
- ▶ Supports Up to 16 Connections per Serial Port Under Modbus Master Mode and 32 Sessions Under Modbus Slave Mode
- ▶ Software-selectable RS-232/422/485 Communication
- ▶ Automatic RS-485 Data Flow Control
- ▶ Redundant Power Input: 12~48VDC
- ▶ Power Polarity Reverse Protection
- ▶ Overload Current Protection
- ▶ DIN-Rail or Wall Mountable
- ▶ Standard and Wide Temperature Models
- ▶ 5-Year Warranty

INTRODUCTION

Antaira Technologies' STM-601C series is an industrial MODBUS gateway that allows legacy MODBUS RTU/ASCII devices to operate on a MODBUS TCP network. It can be configured as either MODBUS serial master or slave to communicate with MODBUS TCP's slave or master. The STM-601C series features two independent Ethernet ports and MAC addresses to provide redundancy and reliability. These devices provide an economical way of connecting MODBUS RTU/ASCII devices to networks accessible anywhere in the world.

DIMENSIONS



SPECIFICATIONS

Ethernet Technology

Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet
Processing Type	Store and Forward
Protocol	CSMA/CD
No. of Ports	2 with independent IP and MAC addresses

Serial Technology

Port Type	RS-232/422/485, software selectable
No. of Ports	1 – DB9 male
Data Bits	5, 6, 7, 8
Stop Bits	1, 2
Parity	None, Odd, Even, Space, Mark
Flow Control	XON/XOFF, RTS/CTS
Baud Rate	50 bps ~ 921.6 kbps, any baud rate setting
Serial Signals	RS-232: Tx, Rx, CTS, RTS, DCD, RI, GND RS-422: Tx+, Tx-, Rx+, Rx-, GND RS-485: Data+, Data-, GND
Protection	15 KV ESD for all signals

Interface

Ethernet Port	2*10/100T auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
LED Indicators	Power, Ethernet Ports: Link / Act

General

LED Indicators	System: Power, System Status LAN: Speed, Link/Active Serial: Tx, Rx
Reboot Trigger	Built-in WDT (watchdog timer)

Mechanical Characteristics

Housing	Metal with solid mounting hardware
Dimensions	37 x 140 x 95 mm (1.46" x 5.51" x 3.74")
Weight	1.04lbs (0.472 kg)
Mounting	DIN-Rail, Wall mounting

Power Requirement

Input Voltage	12 to 48VDC, Redundant Inputs
Power Connection	Terminal block
Reverse Polarity Protection	Present
Overload Current Protection	Present
Power Consumption	3.2 W

Environmental Limits

Operating Temperature	STD: -10 ~ 60 °C (14 ~ 140 °F) EOT: -40 ~ 70 °C (-40 ~ 158 °F)
Storage Temperature	-20 ~ 80 °C (-4 ~ 176 °F)

Ambient Relative Humidity	5% to 95%, (non-condensing)
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Regulatory Approvals

EMC	CE, FCC Part 15 Subpart B (Class A) UL/cUL (Class I, Division 2, Groups A, B, C and D) (Zone 2 Ex nA nC IIC T4 Gc)
Hazardous location	
Green	RoHS Compliant
Warranty	5 Years

Software

OS Support	32-bit/64-bit Windows XP/Vista/7/8/8.1/10, Windows Server 2003/2008/2008 R2/2012/2012 R2
Utility Software	Antaira Device Configuration Utility
Operation Modes	Modbus RTU Master/Slave mode Modbus ASCII Master/Slave mode
Configuration	Windows Utility, Telnet Console, Web Browser
Protocols	ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, SNMP, HTTP, DNS, SMTP, ARP, NTP
Hazardous Location	UL/cUL (Class 1, Division 2, Groups A, B, C, and D), ATEX (Zone 2 Ex nA nC IIC T4 Gc)

ORDERING INFO

STM-601C	Industrial Modbus TCP (two Ethernet port) to one Serial (232,422,485) RTU/ASCII Gateway
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STM-601C-T	Industrial Modbus TCP (two Ethernet port) to one Serial (232,422,485) RTU/ASCII Gateway; EOT: -40°C to 70°C
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Optional Accessories

DR-30-24	30W Industrial DIN-Rail Power Supply, 24VDC
DR-60-24	60W Industrial DIN-Rail Power Supply, 24VDC