

## STM-601C Series

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



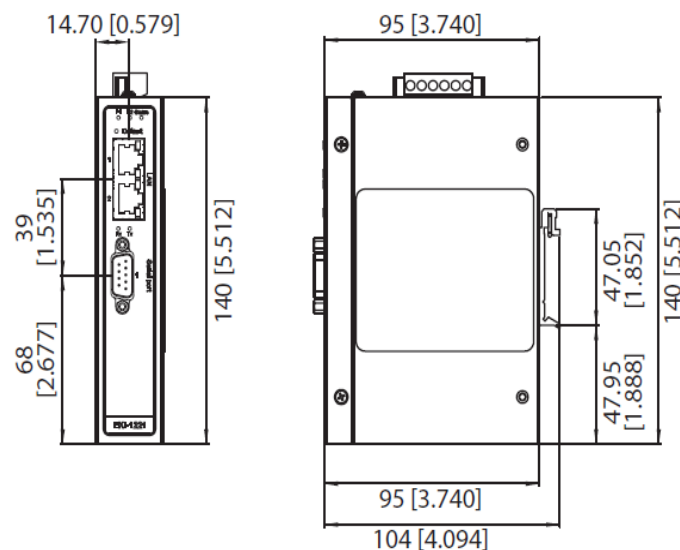
### Features

- ▶ 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        |                                                                                                          | Power Requirement           |                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------|
| Standards                  | IEEE 802.3 10Base-T Ethernet<br>IEEE 802.3u 100Base-TX Fast Ethernet                                     | Input Voltage               | 12 to 48VDC, Redundant Inputs                                                                  |
| Processing Type            | Store and Forward                                                                                        | Power Connection            | Terminal block                                                                                 |
| Protocol                   | CSMA/CD                                                                                                  | Reverse Polarity Protection | Present                                                                                        |
| No. of Ports               | 2 with independent IP and MAC addresses                                                                  | Overload Current Protection | Present                                                                                        |
| Serial Technology          |                                                                                                          | Power Consumption           | 3.2 W                                                                                          |
| Port Type                  | RS-232/422/485, software selectable                                                                      | Environmental Limits        |                                                                                                |
| No. of Ports               | 1 – DB9 male                                                                                             | Operating Temperature       | STD: -10 ~ 60 °C (14 ~ 140 °F)<br>EOT: -40 ~ 70 °C (-40 ~ 158 °F)                              |
| Data Bits                  | 5, 6, 7, 8                                                                                               | Storage Temperature         | -20 ~ 80 °C (-4 ~ 176 °F)                                                                      |
| Stop Bits                  | 1, 2                                                                                                     | Ambient Relative Humidity   | 5% to 95%, (non-condensing)                                                                    |
| Parity                     | None, Odd, Even, Space, Mark                                                                             | Regulatory Approvals        |                                                                                                |
| Flow Control               | XON/XOFF, RTS/CTS                                                                                        | EMC                         | CE, FCC Part 15 Subpart B (Class A)                                                            |
| Baud Rate                  | 50 bps ~ 921.6 kbps, any baud rate setting                                                               | Hazardous location          | UL/cUL (Class I, Division 2, Groups A, B, C and D)                                             |
| Serial Signals             | RS-232: Tx+, Rx-, CTS, RTS, DCD, RI, GND<br>RS-422: Tx+, Tx-, Rx+, Rx-, GND<br>RS-485: Data+, Data-, GND | Green                       | RoHS Compliant                                                                                 |
| Protection                 | 15 KV ESD for all signals                                                                                | Warranty                    | 5 Years                                                                                        |
| Interface                  |                                                                                                          | Software                    |                                                                                                |
| Ethernet Port              | 2*10/100T auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection                   | OS Support                  | 32-bit/64-bit Windows<br>XP/Vista/7/8/8.1/10, Windows<br>Server 2003/2008/2008 R2/2012/2012 R2 |
| LED Indicators             | Power,<br>Ethernet Ports: Link / Act                                                                     | Utility Software            | Antaira Device Configuration Utility                                                           |
| General                    |                                                                                                          | Operation Modes             | Modbus RTU Master/Slave mode<br>Modbus ASCII Master/Slave mode                                 |
| LED Indicators             | System: Power, System Status<br>LAN: Speed, Link/Active<br>Serial: Tx, Rx                                | Configuration               | Windows Utility, Telnet Console, Web Browser                                                   |
| Reboot Trigger             | Built-in WDT (watchdog timer)                                                                            | Protocols                   | ICMP, IP, TCP, UDP, BOOTP, DHCP,<br>Auto IP, SNMP,<br>HTTP, DNS, SMTP, ARP, NTP                |
| 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                                                                                  |                             |                                                                                                |

## ORDERING INFO

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

### Optional Accessories

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

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