

# IMC-C1000-XX Series

Compact Industrial Gigabit Ethernet Media Converter,  
with 10/100/1000Tx to 1000Fx SC/ST Connector



## Features

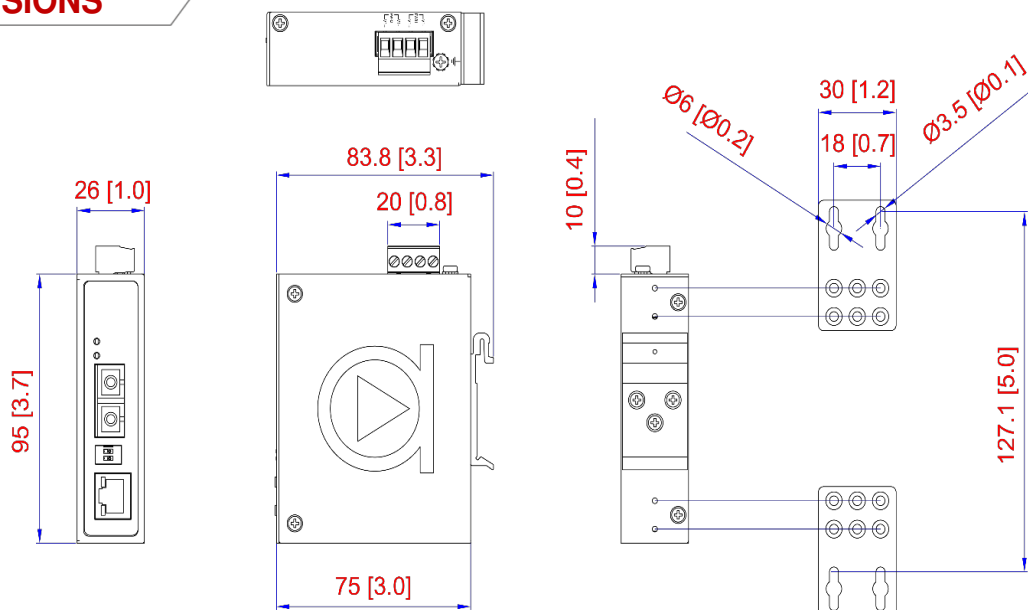
- ▶ 1\*10/100/1000Tx Gigabit Ethernet
- ▶ 1\*1000x SC/ST Connector (Multi / Single-Mode)
- ▶ RJ45 Port Support Auto MDI / MDI-X Function
- ▶ Auto Negotiation Speed, Half / Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Built-in Link Fault Pass Through (LFP)
- ▶ Built-in Far End Fault (FEF)
- ▶ Jumbo Frame Support: 10Kbytes
- ▶ Wide-Range Redundant Power Design
- ▶ Redundant Power Input: 12~48VDC
- ▶ Power Polarity Reverse Protection
- ▶ Overload Current Protection
- ▶ DIN-Rail or Wall Mountable
- ▶ IP30 Protection
- ▶ 5-Year Warranty

## INTRODUCTION

**Antaira Technologies' IMC-C1000-XX series** is a compact IP30 rated gigabit Ethernet-to-Fiber media converter featuring a 10/100/1000TX Ethernet port and a fixed fiber interface supporting ST or SC connectors depending on model. There are models that support Multimode and Single-Mode to support applications with a variety of fiber distances. It is perfectly designed to fulfill industrial applications that require distance extension and high bandwidth capabilities.

The IMC-C1000-XX series has a built-in "Link Fault Pass Through" (LFP) and "Far End Fault" (FEF) function with 12~48VDC redundant power inputs with reverse polarity and overload current protection. This product series supports DIN-rail as well as wall mountable orientations and provides operating temperature range models in STD: -10°C to 70°C and EOT: -40°C to 80°C.

## DIMENSIONS



Unit: mm (inch)

Din-rail

Wall-mount

## SPECIFICATIONS

| Technology                 |                                                                                                                  | Power Requirement           |                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------|
| Standards                  | IEEE 802.3 10Base-T Ethernet                                                                                     | Input Voltage               | 12 to 48VDC, Redundant Inputs                                      |
|                            | IEEE 802.3u 100Base-TX Fast Ethernet                                                                             | Power Connection            | 1 removable 4-contact terminal block                               |
|                            | IEEE 802.3ab 1000Base-T Gigabit Ethernet                                                                         | Reverse Polarity Protection | Present                                                            |
|                            | IEEE 802.3z 1000Base-X Gigabit Fiber                                                                             | Overload Current Protection | Present                                                            |
| Processing Type            | Store and Forward                                                                                                | System Power Consumption    | 2.2 Watts                                                          |
| Protocol                   | CSMA/CD                                                                                                          | Environmental Limits        |                                                                    |
| Flow Control               | IEEE 802.3x back pressure flow control                                                                           | Operating Temperature       | STD: -10°C to 70°C<br>EOT: -40°C to 80°C                           |
| Switch Properties          |                                                                                                                  | Storage Temperature         | -40°C to 85°C                                                      |
| Memory Buffer              | 1Mbit                                                                                                            | Ambient Relative Humidity   | 5% to 95%, (non-condensing)                                        |
| Jumbo Frame                | 10Kbytes                                                                                                         | Regulatory Approvals        |                                                                    |
| MAC Table Size             | 8K                                                                                                               | EMI                         | FCC Part 15 Subpart B Class A,<br>CE EN 55032/EN 61000-6-4 Class A |
| Interface                  |                                                                                                                  | EMS                         | CE EN 55024/EN 61000-6-2<br>IEC61000-4-2,3,4,5,6,8                 |
| Ethernet Port              | 1*RJ45 Port w/10/100/1000T(X)<br>Auto negotiation speed, Full/Half duplex mode,<br>and auto MDI/MDI-X connection | Free Fall Shock             | IEC60068-2-32<br>IEC60068-2-27                                     |
| Fiber Port                 | 1*1000 SC/ST type connector<br>Multi-mode: 50/125um or 62.5/125um<br>Single-mode: 9/125um or 10/125um            | Vibration                   | IEC60068-2-6                                                       |
| Fiber Wavelength           | Depends on fixed fiber modules                                                                                   | Green                       | RoHS Compliant                                                     |
| LED Indicators             | Power (PWR): On / Off<br>Fiber Port (GFX): Link / Act<br>Ethernet Port: Link / Act                               | Certifications              | FCC, CE, UL 61010-1, UL 61010-2-201                                |
| Mechanical Characteristics |                                                                                                                  | Warranty                    | 5 Years                                                            |
| Housing                    | Metal, IP30 rated                                                                                                |                             |                                                                    |
| Dimensions                 | 26 x 95 x 75 mm (W x H x D)                                                                                      |                             |                                                                    |
| Weight                     | Unit: 0.595 lb.<br>Shipping: 0.86 lb.                                                                            |                             |                                                                    |
| Mounting                   | DIN-Rail Mounting, Wall Mounting                                                                                 |                             |                                                                    |

## ORDERING INFO

|                   |                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMC-C1000-M       | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Multi-Mode 1000Mbps Fixed Fiber                                                    |
| IMC-C1000-M-T     | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Multi-Mode 1000Mbps Fixed Fiber;<br>EOT: -40°C to 80°C                             |
| IMC-C1000-ST-M    | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to ST Multi-Mode 1000Mbps Fixed Fiber                                                    |
| IMC-C1000-ST-M-T  | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to ST Multi-Mode 1000Mbps Fixed Fiber;<br>EOT: -40°C to 80°C                             |
| IMC-C1000-S1      | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single-Mode 10km 1000Mbps Fixed Fiber                                              |
| IMC-C1000-S1-T    | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single-Mode 10km 1000Mbps Fixed Fiber;<br>EOT: -40°C to 80°C                       |
| IMC-C1000-ST-S1   | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to ST Single-Mode 10km 1000Mbps Fixed Fiber                                              |
| IMC-C1000-ST-S1-T | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to ST Single-Mode 10km 1000Mbps Fixed Fiber;<br>EOT: -40°C to 80°C                       |
| IMC-C1000-S4      | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single-Mode 40km 1000Mbps Fixed Fiber                                              |
| IMC-C1000-S4-T    | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single-Mode 40km 1000Mbps Fixed Fiber;<br>EOT: -40°C to 80°C                       |
| IMC-C1000-S6      | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single-Mode 60km 1000Mbps Fixed Fiber                                              |
| IMC-C1000-S6-T    | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single-Mode 60km 1000Mbps Fixed Fiber;<br>EOT: -40°C to 80°C                       |
| IMC-C1000-WA-S1   | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single Fiber (WDM-A), Single-Mode 10km,<br>TX1310nm – RX1550nm                     |
| IMC-C1000-WA-S1-T | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single Fiber (WDM-A), Single-Mode 10km,<br>TX1310nm – RX1550nm; EOT: -40°C to 80°C |
| IMC-C1000-WB-S1   | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single Fiber (WDM-B), Single-Mode 10km,<br>TX1550nm – RX1310nm                     |
| IMC-C1000-WB-S1-T | Compact Industrial Gigabit Media Converter, with 10/100/1000Tx to SC Single Fiber (WDM-B), Single-Mode 10km,<br>TX1550nm – RX1310nm; EOT: -40°C to 80°C |

## Assured Systems

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