

IMC-C1000-XX Series

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



Features

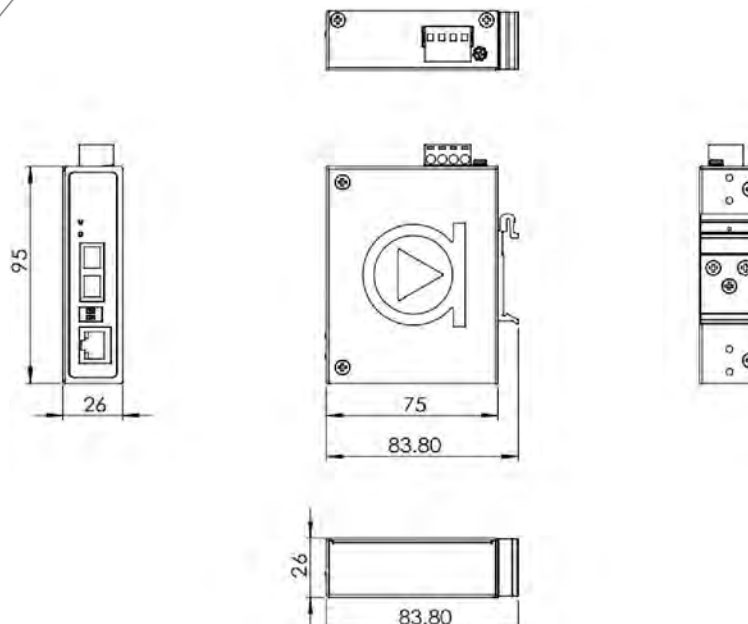
- ▶ 1*10/100/1000Tx Gigabit Ethernet
- ▶ 1*1000x SC/ST Connector (Multi / Single-Mode)
- ▶ RJ45 Port Support Auto MDI / MDI-X Function
- ▶ Auto Negotiation Speed, Half / Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Built-in Link Fault Pass Through (LFP)
- ▶ Built-in Far End Fault (FEF)
- ▶ Jumbo Frame Support: 10k bytes
- ▶ 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



SPECIFICATIONS

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|-----------------------------------|---|
| Technology | |
| Standards | IEEE 802.3 10Base-T Ethernet |
| | IEEE 802.3u 100Base-TX Fast Ethernet |
| | IEEE 802.3ab 1000Base-T Gigabit Ethernet |
| | IEEE 802.3z 1000Base-X Gigabit Fiber |
| Processing Type | Store and Forward |
| Protocol | CSMA/CD |
| Flow Control | IEEE 802.3x back pressure flow control |
| Switch Properties | |
| Memory Buffer | 1Mbits |
| Jumbo Frame | 10k bytes |
| MAC Table Size | 8K |
| Interface | |
| Ethernet Port | 1*RJ45 Port w/10/100/1000T(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection |
| Fiber Port | 1*1000 SC/ST type connector Multi-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125um |
| Fiber Wavelength | Depends on fixed fiber modules |
| LED Indicators | Power (PWR): On / Off Fiber Port (GFX): Link / Act Ethernet Port: Link / Act |
| Mechanical Characteristics | |
| Housing | Metal, IP30 protection |
| Dimensions | 26 x 95 x 75 mm (W x H x D) |
| Weight | Unit: 0.595 lbs. Shipping: 0.86 lbs. |
| Mounting | DIN-Rail Mounting, Wall Mounting |

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| Power Requirement | |
| Input Voltage | 12 to 48VDC, Redundant Inputs |
| Power Connection | 1 removable 4-contact terminal block |
| Reverse Polarity Protection | Present |
| Overload Current Protection | Present |
| Power Consumption | 2.2 Watts for System |
| Environmental Limits | |
| Operating Temperature | STD: -10°C to 70°C EOT: -40°C to 80°C |
| Storage Temperature | -40°C to 85°C |
| Ambient Relative Humidity | 5% to 95%, (non-condensing) |
| Regulatory Approvals | |
| EMI | FCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class A |
| EMS | CE EN 55024 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field) |
| Free Fall | IEC60068-2-32 |
| Shock | IEC60068-2-27 |
| Vibration | IEC60068-2-6 |
| Green | RoHS Compliant |
| Certifications | FCC, CE |
| Warranty | 5 Years |

ORDERING INFO

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|--------------------------|---|
| 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; 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; 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; 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; 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; 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; 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, 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, 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, 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, TX1550nm – RX1310nm; EOT: -40°C to 80°C |

Optional Accessories

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| DR-30-24 | 30 Watt Industrial Single Output DIN Rail Power Supply - 24 VDC / 1.50 Amps |
| DR-75-24 | 75 Watt Industrial Single Output DIN Rail Power Supply - 24 VDC / 3.2 Amps |