IMC-C1000-XX Series

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

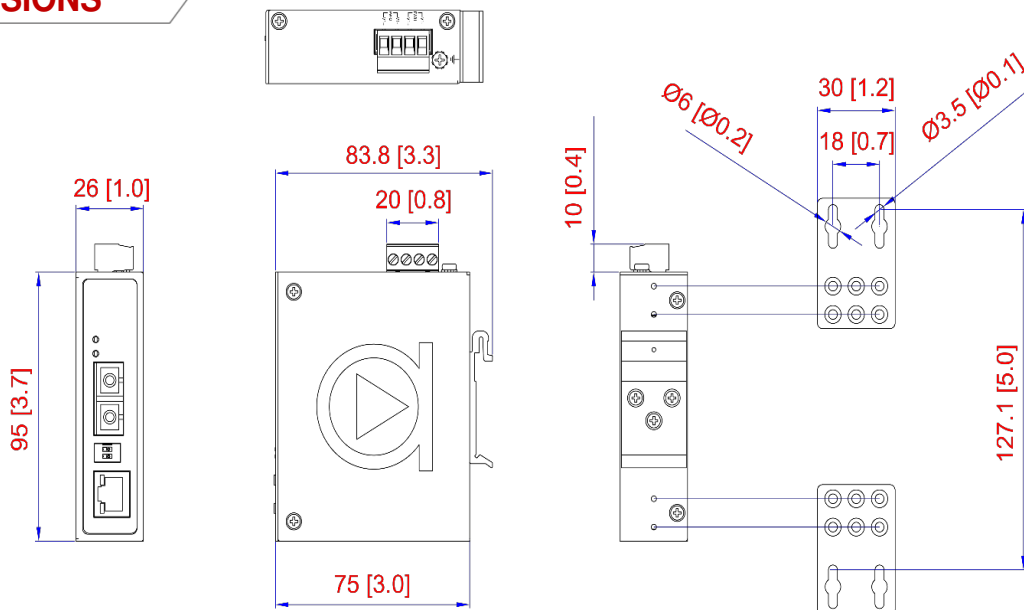## Features

▶ 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

26 [1.0]
83.8 [3.3]
20 [0.8]
10 [0.4]
95 [3.7]
75 [3.0]
Ø6 [Ø0.2]
30 [1.2]
18 [0.7]
Ø3.5 [Ø0.1]
127.1 [5.0]

Unit: mm (inch)   Din-rail   Wall-mount

SPECIFICATIONS

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	1Mbit
Jumbo Frame	10Kbytes
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 rated
Dimensions	26 x 95 x 75 mm (W x H x D)
Weight	Unit: 0.595 lb. Shipping: 0.86 lb.
Mounting	DIN-Rail Mounting, Wall Mounting

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
System Power Consumption	2.2 Watts

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/EN 61000-6-4 Class A
EMS	CE EN 55024/EN 61000-6-2 IEC61000-4-2,3,4,5,6,8
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE, UL 61010-1, UL 61010-2-201
Warranty	5 Years

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; 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

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