

IMC-C1000-XX Series

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



Features

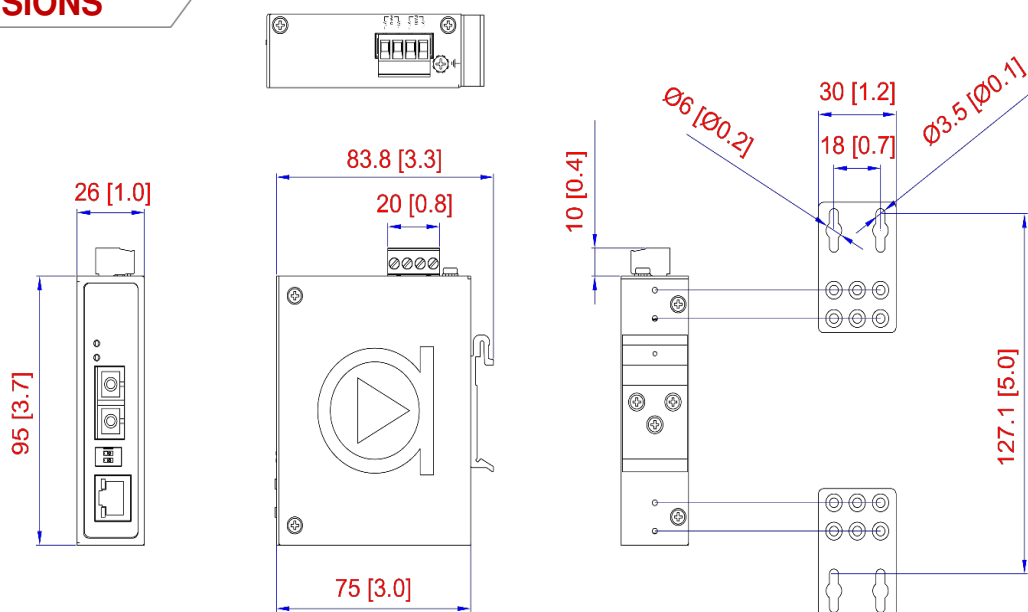
- ▶ 1*10/100/1000Tx Gigabit Ethernet
- ▶ 1*1000x SC/ST Connector (Multi / Single-Mode)
- ▶ RJ45 Port Support Auto MDI / MDI-X Function
- ▶ Auto Negotiation Speed, Half / Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Built-in Link Fault Pass Through (LFP)
- ▶ Built-in Far End Fault (FEF)
- ▶ 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 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, CE EN 55032/EN 61000-6-4 Class A
Interface		EMS	CE EN 55024/EN 61000-6-2 IEC61000-4-2,3,4,5,6,8
Ethernet Port	1*RJ45 Port w/10/100/1000T(X) Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection	Free Fall Shock	IEC60068-2-32 IEC60068-2-27
Fiber Port	1*1000 SC/ST type connector Multi-mode: 50/125um or 62.5/125um 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 Fiber Port (GFX): Link / Act 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. 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; 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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