

IMC-C1000-XX Series

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



Features

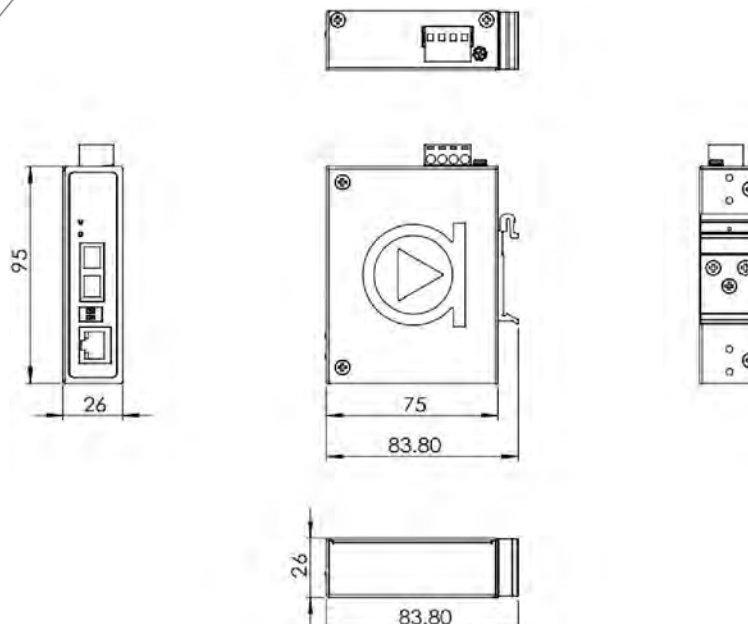
- ▶ 1*10/100/1000Tx Gigabit Ethernet
- ▶ 1*1000x SC/ST Connector (Multi / Single-Mode)
- ▶ RJ45 Port Support Auto MDI / MDI-X Function
- ▶ Auto Negotiation Speed, Half / Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Built-in Link Fault Pass Through (LFP)
- ▶ Built-in Far End Fault (FEF)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

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

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

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

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