

## IMC-C1000-XX Series

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



### Features

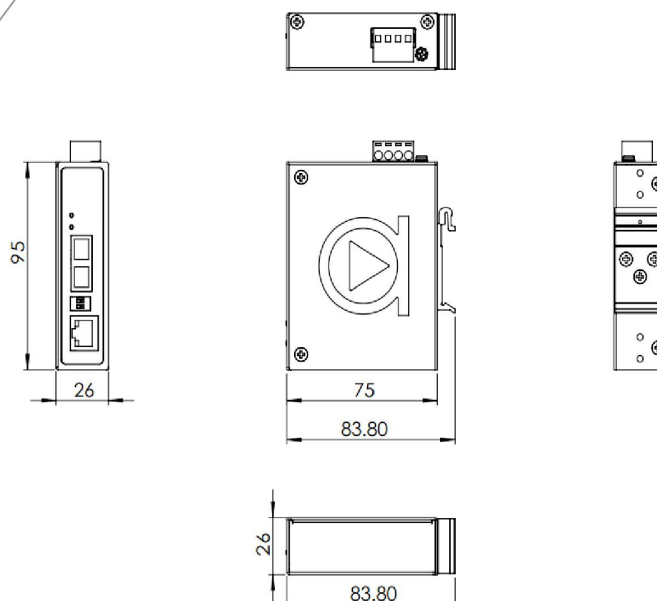
- ▶ 1\*10/100/1000Tx Gigabit Ethernet
- ▶ 1\*1000x SC/ST Connector (Multi / Single-Mode)
- ▶ RJ45 Port Support Auto MDI / MDI-X Function
- ▶ Auto Negotiation Speed, Half / Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Built-in Link Fault Pass Through (LFP)
- ▶ Built-in Far End Fault (FEF)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

## ORDERING INFO

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

## Assured Systems

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