

# **IMC-C1000-XX Series**

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



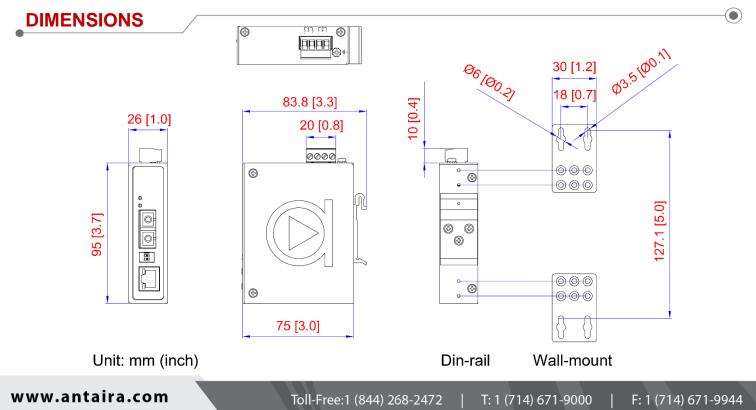
#### **Features**

- 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.



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### SPECIFICATIONS

StandardsIEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3z 1000Base-X Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit FiberProcessing TypeStore and ForwardProtocolCSMA/CDFlow ControlIEEE 802.3x back pressure flow controlSwitch PropertiesImage: Store and ForwardMemory Buffer1MbitJumbo Frame10KbytesMAC Table Size8KInterface1*RJ45 Port w/10/100/1000T(X)Ethernet Port1*RJ45 Port w/10/100/1000T(X)Fiber Port0Buditi-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125umFiber PortDepends on fixed fiber modulesPower (PWR): On / Off Fiber Port (GFX): Link / Act Ethernet Port: Link / ActMechanical CharacteristicsHousingMetal, IP30 ratedDimensions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. Shipping: 0.86 lb.MountingDIN-Rail Mounting, Wall Mounting	Technology	
ProtocolCSMA/CDFlow ControlIEEE 802.3x back pressure flow controlSwitch Properties1MbitJumbo Frame10KbytesMAC Table Size8KInterface1*RJ45 Port w/10/100/1000T(X)Ethernet Port1*RJ45 Port w/10/100/1000T(X)Fiber Port1*1000 SC/ST type connectorFiber Port0epends on fixed fiber modulesFiber WavelengthDepends on fixed fiber modulesFiber Not (GFX): Link / ActPower (PWR): On / OffFiber IndicatorsFiber Port (GFX): Link / ActMechanical CharacteristicsHousingHousingMetal, IP30 ratedDimensions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. Shipping: 0.86 lb.	Standards	IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet
Flow ControlIEEE 802.3x back pressure flow controlSwitch Properties1MbitJumbo Frame10KbytesMAC Table Size8KInterface1*RJ45 Port w/10/100/1000T(X)Ethernet Port1*RJ45 Port w/10/100/1000T(X)Ethernet Port1*RJ45 Port w/10/100/1000T(X)Fiber Port1*1000 SC/ST type connectorFiber Port0Single-mode: 9/125um or 62.5/125umFiber WavelengthDepends on fixed fiber modulesPower (PWR): On / OffLED IndicatorsPower (PWR): On / OffHousingMetal, IP30 ratedDimensions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. Shipping: 0.86 lb.	Processing Type	Store and Forward
Switch Properties   Memory Buffer 1Mbit   Jumbo Frame 10Kbytes   MAC Table Size 8K   Interface 1*RJ45 Port w/10/100/1000T(X)   Ethernet Port 1*RJ45 Port w/10/100/1000T(X)   Fiber Port 1*RJ00 SC/ST type connection   Fiber Port 1*1000 SC/ST type connector   Fiber Port Multi-mode: 50/125um or 62.5/125um   Single-mode: 9/125um or 10/125um Single-mode: 9/125um or 10/125um   Fiber Wavelength Depends on fixed fiber modules   Power (PWR): On / Off Fiber Port (GFX): Link / Act   Ethernet Port: Link / Act Ethernet Port: Link / Act   Mechanical Characteristics Housing   Housing Metal, IP30 rated   Dimensions 26 x 95 x 75 mm (W x H x D)   Weight Shipping: 0.86 lb.	Protocol	CSMA/CD
Memory Buffer1MbitJumbo Frame10KbytesMAC Table Size8KInterface1*RJ45 Port w/10/100/1000T(X)Ethernet Port1*RJ45 Port w/10/100/1000T(X)Ethernet Port1*RJ45 Port w/10/100/1000T(X)Fiber Port1*1000 SC/ST type connectorFiber Port0Single-mode: 9/125um or 62.5/125umFiber WavelengthDepends on fixed fiber modulesDepends on fixed fiber modulesEthernet PortFiber Port (GFX): Link / ActMechanical CharacteristicsHousingMetal, IP30 ratedDimensions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. Shipping: 0.86 lb.	Flow Control	IEEE 802.3x back pressure flow control
Jumbo Frame10KbytesMAC Table Size8KInterface1*RJ45 Port w/10/100/1000T(X)Ethernet Port1*RJ45 Port w/10/100/1000T(X)Fiber Port1*1000 SC/ST type connectorFiber Port1*1000 SC/ST type connectorFiber WavelengthDepends on fixed fiber modulesFiber IndicatorsPower (PWR): On / OffFiber Single -mode:9/125um or 10/125umFiber MayelengthDepends on fixed fiber modulesFiber MayelengthDepends on fixed fiber modulesFiber Single -mode:9/125um or 10/125umFiber MayelengthDepends on fixed fiber modulesFiber Single -mode:9/125um or 10/125umFiber MayelengthDepends on fixed fiber modulesDemosions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. Shipping: 0.86 lb.	Switch Properties	
MAC Table Size 8K   Interface 1*RJ45 Port w/10/100/1000T(X)   Ethernet Port Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection   Fiber Port 1*1000 SC/ST type connector   Fiber Port Multi-mode: 50/125um or 62.5/125um or 10/125um   Fiber Wavelength Depends on fixed fiber modules   Power (PWR): On / Off Fiber Port (GFX): Link / Act   Ethernet Port: Link / Act Ethernet Port: Link / Act   Mechanical Characteristics Metal, IP30 rated   Dimensions 26 x 95 x 75 mm (W x H x D)   Weight Unit: 0.595 lb.   Shipping: 0.86 lb. Shipping: 0.86 lb.	Memory Buffer	1Mbit
Interface 1*RJ45 Port w/10/100/1000T(X)   Ethernet Port Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection   Fiber Port 1*1000 SC/ST type connector   Fiber Port Multi-mode: 50/125um or 62.5/125um or 10/125um   Fiber Wavelength Depends on fixed fiber modules   Power (PWR): On / Off Fiber Port (GFX): Link / Act   Ethernet Port: Link / Act Metal, IP30 rated   Dimensions 26 x 95 x 75 mm (W x H x D)   Weight Unit: 0.595 lb. Shipping: 0.86 lb.	Jumbo Frame	10Kbytes
Ethernet Port1*RJ45 Port w/10/100/1000T(X) Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connectionFiber Port1*1000 SC/ST type connector Multi-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125umFiber WavelengthDepends on fixed fiber modulesFiber WavelengthDepends on fixed fiber modulesEED IndicatorsPower (PWR): On / Off Fiber Port (GFX): Link / Act Ethernet Port: Link / ActMechanical Characteristics HousingMetal, IP30 ratedDimensions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. Shipping: 0.86 lb.	MAC Table Size	8K
Ethernet PortAuto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connectionFiber Port1*1000 SC/ST type connector Multi-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125umFiber WavelengthDepends on fixed fiber modulesFiber WavelengthDepends on fixed fiber modulesEED IndicatorsPower (PWR): On / Off Fiber Port (GFX): Link / Act Ethernet Port: Link / ActMechanical CharacteristicsMetal, IP30 ratedDimensions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. Shipping: 0.86 lb.	Interface	
Fiber PortMulti-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125umFiber WavelengthDepends on fixed fiber modulesFiber WavelengthDepends on fixed fiber modulesLED IndicatorsPower (PWR): On / Off Fiber Port (GFX): Link / Act Ethernet Port: Link / ActMechanical CharacteristicsHousingMetal, IP30 ratedDimensions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. Shipping: 0.86 lb.	Ethernet Port	Auto negotiation speed, Full/Half duplex mode,
LED IndicatorsPower (PWR): On / Off Fiber Port (GFX): Link / Act Ethernet Port: Link / ActMechanical CharacteristicsHousingMetal, IP30 ratedDimensions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. 	Fiber Port	Multi-mode: 50/125um or 62.5/125um
LED IndicatorsFiber Port (GFX): Link / Act Ethernet Port: Link / ActMechanical CharacteristicsHousingMetal, IP30 ratedDimensions26 x 95 x 75 mm (W x H x D)WeightUnit: 0.595 lb. 	Fiber Wavelength	Depends on fixed fiber modules
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.	LED Indicators	Fiber Port (GFX): Link / Act
Dimensions   26 x 95 x 75 mm (W x H x D)     Weight   Unit: 0.595 lb. Shipping: 0.86 lb.	Mechanical Charact	teristics
Weight   Unit: 0.595 lb.     Shipping: 0.86 lb.   Shipping: 0.86 lb.	Housing	Metal, IP30 rated
Weight Shipping: 0.86 lb.	Dimensions	· · · · · · · · · · · · · · · · · · ·
Mounting DIN-Rail Mounting, Wall Mounting	Weight	
	Mounting	DIN-Rail Mounting, Wall Mounting

Power Requireme	ent	
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	

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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