IMC-C100-XX Series

Compact 10/100TX to 100FX Industrial Media Converter with SC/ST Connector



Features

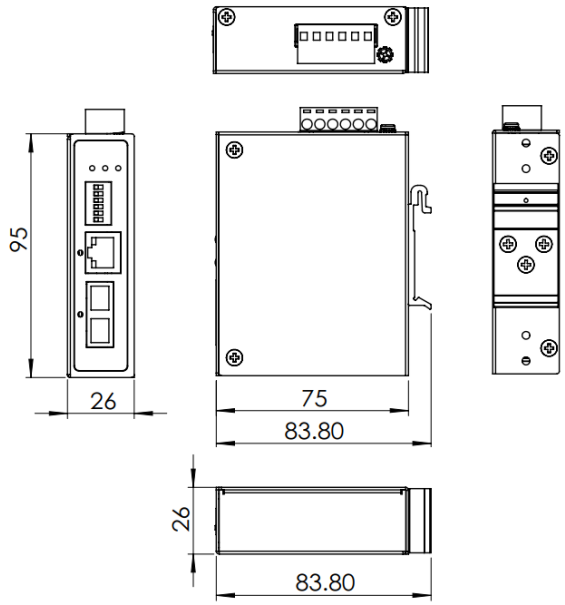
- **1*10/100TX Fast Ethernet**
- **1*100FX SC/ST Connector (Multi / Single-Mode)**
- **RJ45 Port Support Auto MDI / MDI-X Function**
- **Auto Negotiation Speed, Half / Full Duplex**
- **Store-and-Forward Switching Architecture**
- **Built-in Link Fault Pass Through (LFP)**
- **Built-in Far End Fault (FEF)**
- **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-C100-XX Series is a compact IP30 rated Ethernet-to-Fiber media converter featuring a 10/100TX Ethernet port and a fixed fiber interface supporting ST or SC connectors depending on the model. There are Multimode and Single-Mode models to support applications with a variety of fiber distances and types. It is designed to fulfill industrial applications that require fiber optic distance extension while using minimal space.

The IMC-C100-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
Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x back pressure flow control
Switch Properties	
Memory Buffer	128kbits
Interface	
Ethernet Port	1*RJ45 Port w/10/100TX, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Fiber Port	1*100FX 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 1, Power 2, Fault:: On / Off Fiber Port: 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: 0.551 lb. Shipping: 0.815 lb.
Mounting	DIN-Rail Mounting, Wall Mounting

Power Requirement	
Input Voltage	12 to 48VDC, Redundant Inputs
Power Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Overload Current Protection	Present
Power Consumption	2 Watts for System
Relay Contact	24VDC, 1A resistive
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, UL 61010-1, UL 61010-2-201
Warranty	5 Years

ORDERING INFO

IMC-C100-M	Compact 10/100TX to 100FX Industrial Media Converter, Multi-Mode 2km, SC Connector
IMC-C100-M-T	Compact 10/100TX to 100FX Industrial Media Converter, Multi-Mode 2km, SC Connector; EOT: -40°C to 80°C
IMC-C100-ST-M	Compact 10/100TX to 100FX Industrial Media Converter, Multi-Mode 2km, ST Connector
IMC-C100-ST-M-T	Compact 10/100TX to 100FX Industrial Media Converter, Multi-Mode 2km, ST Connector; EOT: -40°C to 80°C
IMC-C100-S3	Compact 10/100TX to 100FX Industrial Media Converter, Single-Mode 30km, SC Connector
IMC-C100-S3-T	Compact 10/100TX to 100FX Industrial Media Converter, Single-Mode 30km, SC Connector; EOT: -40°C to 80°C
IMC-C100-ST-S3	Compact 10/100TX to 100FX Industrial Media Converter, Single-Mode 30km, ST Connector
IMC-C100-ST-S3-T	Compact 10/100TX to 100FX Industrial Media Converter, Single-Mode 30km, ST Connector; EOT: -40°C to 80°C