antaira®

IMP-C100-XX Series

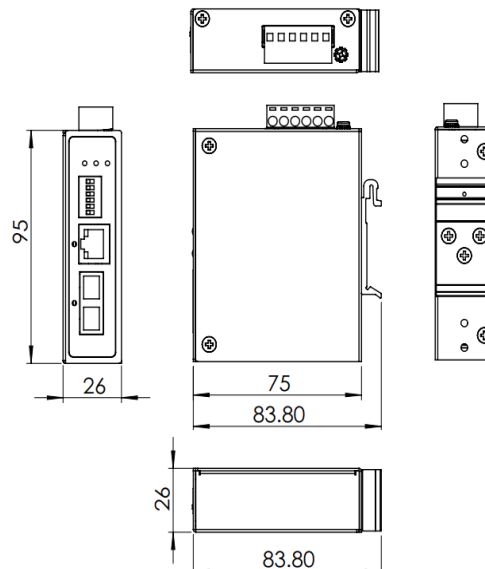Compact 10/100Tx to 100Fx Industrial PoE+ Media Converter with SC/ST Connector

Features

▶ 1*10/100Tx Fast Ethernet with IEEE 802.3at Compliant PoE+
▶ 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: 48~55VDC
▶ Power Polarity Reverse Protection
▶ Overload Current Protection
▶ DIN-Rail or Wall Mountable
▶ IP30 Protection
▶ 5-Year Warranty

INTRODUCTION

Antaira Technologies' IMP-C100-XX series is a compact IP30 rated Ethernet-to-fiber media converter featuring a 10/100TX Ethernet port that supports IEEE 802.3at high power PoE that can supply up to 30 watts, and a fixed fiber interface supporting ST and SC connectors depending on the model. There are Multi-Mode 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 IMP-C100-XX series has a built-in "Link Fault Pass Through" (LFP) and "Far End Fault" (FEF) function with 48~55VDC redundant power inputs with reverse polarity and overload current protection. This product series supports DIN-Rail as well as wall mountable orientations and provides two 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 802.3af/at Power Over 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/10/100T(X), 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 PoE: On-connected to PD devices

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions	26 x 95 x 75 mm (W x H x D)
Weight	Unit: 0.661 lbs. Shipping: 0.903 lbs.
Mounting	DIN-Rail Mounting, Wall Mounting

Power Requirement

Input Voltage	48 to 55VDC, Redundant Inputs
Power Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Overload Current Protection	Present
Power Consumption	2.4Watts for System
Max. PoE Power Budget	30Watts
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 (Pending), UL 61010-2-201 (Pending)
Warranty	5 Years

ORDERING INFO

IMP-C100-M	Compact 10/100Tx to 100Fx Industrial PoE+ Media Converter, Multi-Mode, 2KM, SC Connector
IMP-C100-M-T	Compact 10/100Tx to 100Fx Industrial PoE+ Media Converter, Multi-Mode, 2KM, SC Connector; EOT: -40°C to 80°C
IMP-C100-S3	Compact 10/100Tx to 100Fx Industrial PoE+ Media Converter, Single-Mode, 30KM, SC Connector
IMP-C100-S3-T	Compact 10/100Tx to 100Fx Industrial PoE+ Media Converter, Single-Mode, 30KM, SC Connector; EOT: -40°C to 80°C
IMP-C100-ST-M	Compact 10/100Tx to 100Fx Industrial PoE+ Media Converter, Multi-Mode, 2KM, ST Connector
IMP-C100-ST-M-T	Compact 10/100Tx to 100Fx Industrial PoE+ Media Converter, Multi-Mode, 2KM, ST Connector; EOT: -40°C to 80°C
IMP-C100-ST-S3	Compact 10/100Tx to 100Fx Industrial PoE+ Media Converter, Single-Mode, 30KM, ST Connector
IMP-C100-ST-S3-T	Compact 10/100Tx to 100Fx Industrial PoE+ Media Converter, Single-Mode, 30KM, ST Connector; EOT: -40°C to 80°C

Assured Systems

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