IMP-C100-XX Series

COMPACT 10/100TX TO FX 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.

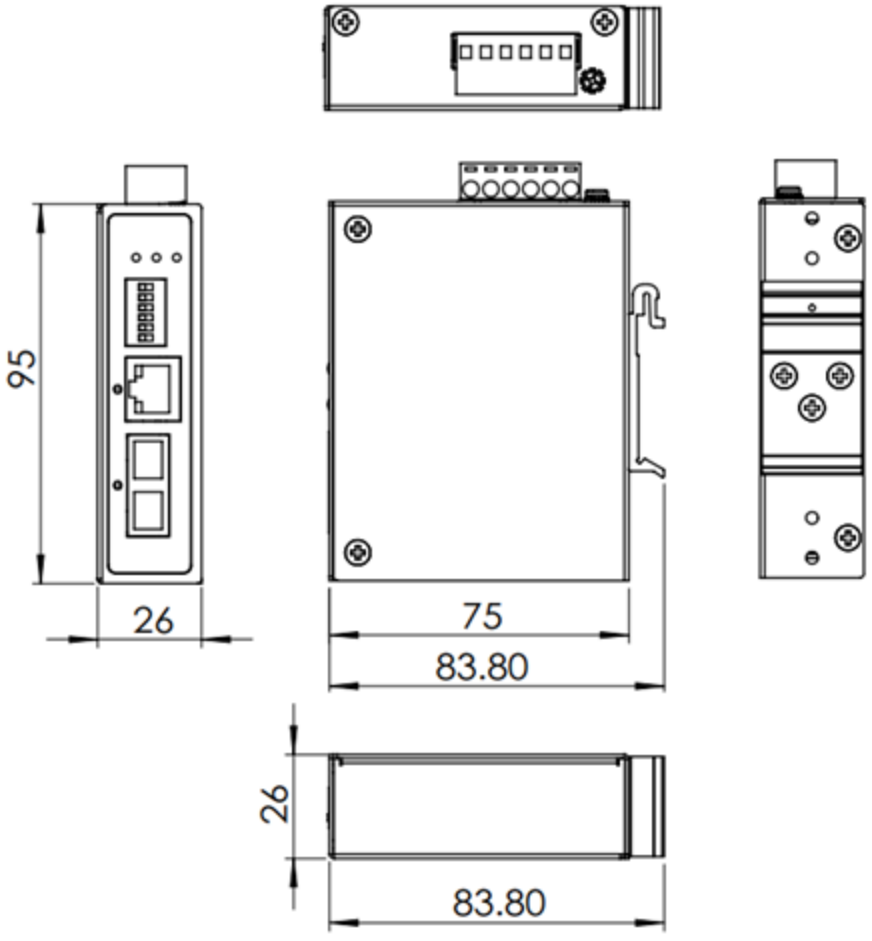
SPECIFICATIONS

Hardware Specifications

Part Number	Total Ports	RJ-45 GE	30W PoE+	Fiber Port	PoE Power Budget	System Power	Input Voltage	Operating Temp.
IMP-C100-XX	2	1	1	1	30W	2.4W	48~55VDC	-10 to 70°C -14 to 158°F
IMP-C100-XX-T	2	1	1	1	30W	2.4W	48~55VDC	-40 to 80°C -40 to 176°F

Physical Specifications

Part Number	Dimensions (W x H x D)	Weight (Unit)	Weight (Shipping)	Mounting	Housing	PoE LED Indicator	LED Indicators
IMP-C100-XX	26 x 95 x 75mm 1.02 x 3.74 x 2.95in	0.30kg 0.661lb	0.41kg 0.903lb	DIN-Rail Wall Mount	Metal, IP30	Yes	Power 1, Power 2, Fault: On / Off Fiber Port: Link / Act Ethernet Port: Link / Act PoE: On-connected to PD devices



Standards

Part Number	IEEE Standards
IMP-C100-XX	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3af/at Power over Ethernet

Media Converter Properties

Specification		Specification	
Memory Buffer	128Kbits	Overload Current Protection	Present
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port	Reverse Polarity Protection	Present
Relay Contact	24VDC, 1A resistive		

Compliance Specifications

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 Class A: IEC 61000-4-2,3,4,5,6,8
Free Fall	IEC 60068-2-32
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE, UL 61010-1, UL 61010-2-201
Storage Environment	Storage Temperature: -40 to 85°C
Humidity	Ambient Relative Humidity 5% to 95%, (non-condensing)
Warranty	5 Years

ORDERING INFORMATION

PoE Injector Models

Part Number	Description
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
IMP-C100-WA-S2	Compact 10/100TX to 100FX Industrial PoE+ Media Converter, Single-Mode, 20KM, TX1310nm – RX1550nm, SC Single Fiber (WDM-A)
IMP-C100-WA-S2-T	Compact 10/100TX to 100FX Industrial PoE+ Media Converter, Single-Mode, 20KM, TX1310nm – RX1550nm, SC Single Fiber (WDM-A); EOT: -40°C to 80°C
IMP-C100-WB-S2	Compact 10/100TX to 100FX Industrial PoE+ Media Converter, Single-Mode, 20KM, TX1550nm – RX1310nm, SC Single Fiber (WDM-B)
IMP-C100-WB-S2-T	Compact 10/100TX to 100FX Industrial PoE+ Media Converter, Single-Mode, 20KM, TX1550nm – RX1310nm, SC Single Fiber (WDM-B); EOT: -40°C to 80°C

© Antaira Technologies, LLC. All rights reserved. 202505
Specifications are subject to change without notice and without incurring any obligation.