

(lacksquare)

### **IMP-C100-XX Series**

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





#### **Features**

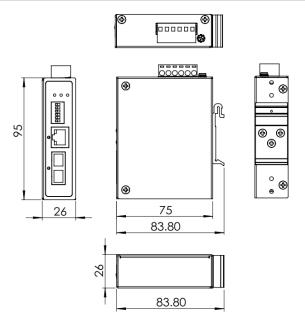
- ► 1\*10/100Tx Fast Ethernet with IEEE 802.3at Compliant PoE+
- ► 1\*100Fx SC/ST Connector (Multi / Single-Mode)
- ► RJ45 Port Support Auto MDI / MDI-X Function
- ► Auto Negotiation Speed, Half / Full Duplex
- ► Store-and-Forward Switching Architecture
- ► Built-in Link Fault Pass Through (LFP)
- ► 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  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  1*RJ45 Port w/10/100T(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection  1*100Fx SC/ST type connector  Fiber Port  Multi-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125um  Fiber Wavelength  Depends on fixed fiber modules  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  Mounting  DIN-Rail Mounting, Wall Mounting		
Standards   IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3af/at Power Over Ethernet	Technology	
Protocol CSMA/CD  Flow Control IEEE 802.3x back pressure flow control  Switch Properties  Memory Buffer 128kbits  Interface  1*RJ45 Port w/10/100T(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection  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  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.	Standards	IEEE 802.3u 100Base-TX Fast Ethernet
Flow Control IEEE 802.3x back pressure flow control  Switch Properties  Memory Buffer 128kbits Interface 1*RJ45 Port w/10/100T(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection 1*100Fx SC/ST type connector  Fiber Port Multi-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125um  Fiber Wavelength Depends on fixed fiber modules  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.	Processing Type	Store and Forward
Switch Properties   Memory Buffer   128kbits     Interface	Protocol	CSMA/CD
Memory Buffer   128kbits   Interface   1*RJ45 Port w/10/100T(X), auto negotiation   speed, Full/Half duplex mode, and auto   MDI/MDI-X connection   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   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   Shipping: 0.903 lbs.	Flow Control	IEEE 802.3x back pressure flow control
Interface  1*RJ45 Port w/10/100T(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection  1*100Fx SC/ST type connector  Fiber Port  Multi-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125um  Fiber Wavelength  Depends on fixed fiber modules  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  Weight	<b>Switch Properties</b>	
1*RJ45 Port w/10/100T(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection  1*100Fx SC/ST type connector  Fiber Port  Multi-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125um  Fiber Wavelength  Depends on fixed fiber modules  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  Weight	-	128kbits
Ethernet Port speed, Full/Half duplex mode, and auto MDI/MDI-X connection  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  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.	Interface	
Fiber Port  Multi-mode: 50/125um or 62.5/125um Single-mode: 9/125um or 10/125um  Fiber Wavelength  Depends on fixed fiber modules 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  Weight  Multi-mode: 50/125um or 62.5/125um Following Fiber Port: Link / Act Ethernet Port: Link / Act PoE: On-connected to PD devices  Mechanical Characteristics Housing Metal, IP30 protection Dimensions Shipping: 0.903 lbs.	Ethernet Port	speed, Full/Half duplex mode, and auto
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.	Fiber Port	Multi-mode: 50/125um or 62.5/125um
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.	Fiber Wavelength	Depends on fixed fiber modules
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.	LED Indicators	Fiber Port: Link / Act Ethernet Port: Link / Act
Dimensions         26 x 95 x 75 mm (W x H x D)           Weight         Unit: 0.661 lbs.           Shipping: 0.903 lbs.	Mechanical Characteristics	
Weight Unit: 0.661 lbs. Shipping: 0.903 lbs.	Housing	Metal, IP30 protection
Weight Shipping: 0.903 lbs.	Dimensions	26 x 95 x 75 mm (W x H x D)
Mounting DIN-Rail Mounting, Wall Mounting	Weight	
	Mounting	DIN-Rail Mounting, Wall Mounting

Input Voltage		
Power Connection1 removable 6-contact terminal blockReverse Polarity ProtectionPresentOverload Current ProtectionPresentPower Consumption2.4Watts for SystemMax. PoE Power Budget30WattsRelay Contact24VDC, 1A resistiveEnvironmental LimitsSTD: -10°C to 70°COperating TemperatureSTD: -10°C to 80°CStorage Temperature-40°C to 85°CAmbient Relative Humidity5% to 95%, (non-condensing)Regulatory ApprovalsFCC Part 15 Subpart B Class A, EN 61000-6-4 Class A, EN 61000-6-4 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-8 (Magnetic Field)EMSIEC61000-4-8 (Magnetic Field)Free FallIEC60068-2-32ShockIEC60068-2-6GreenRoHS CompliantCertificationsFCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)	Power Requirement	
Reverse Polarity Protection  Overload Current Protection  Power Consumption  Ax. PoE Power Budget  Relay Contact  Environmental Limits  Operating Temperature  STD: -10°C to 70°C  EOT: -40°C to 80°C  Storage Temperature  Ambient Relative Humidity  Regulatory Approvals  EMI  FCC Part 15 Subpart B Class A, EN 61000-64 Class A, EN 61000-64 Class A, EN 61000-64 Class A, EN 61000-42 (ESD), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)  Free Fall  IEC60068-2-32  Shock  IEC60068-2-6  Green  RoHS Compliant  FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)	Input Voltage	48 to 55VDC, Redundant Inputs
Protection Overload Current Protection Power Consumption Max. PoE Power Budget Relay Contact Environmental Limits Operating Temperature EOT: -40°C to 70°C Storage Temperature Humidity Regulatory Approvals EMI  FCC Part 15 Subpart B Class A, EN 61000-6-4 Class A, EN 61000-6-2 Class A, IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field) Free Fall IEC60068-2-32 Shock IEC60068-2-6 Green RoHS Compliant FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)	Power Connection	1 removable 6-contact terminal block
Protection         Present           Power Consumption         2.4Watts for System           Max. PoE Power Budget         30Watts           Relay Contact         24VDC, 1A resistive           Environmental Limits         Operating STD: -10°C to 70°C to 70°C to 80°C           Temperature         EOT: -40°C to 80°C           Storage Temperature         -40°C to 85°C           Ambient Relative Humidity         FCC Part 15 Subpart B Class A, EN 61000-6-4 Class A, EN 61000-6-4 Class A, EN 61000-6-2 Class A, EN 61000-6-2 Class A, EN 61000-6-2 Class A, EN 61000-4-2 (ESD), IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-8 (Magnetic Field)           Free Fall         IEC60068-2-32           Shock         IEC60068-2-27           Vibration         IEC60068-2-6           Green         RoHS Compliant           FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)	•	Present
Max. PoE Power Budget         30Watts           Relay Contact         24VDC, 1A resistive           Environmental Limits         Operating STD: -10°C to 70°C EOT: -40°C to 80°C           Temperature         EOT: -40°C to 85°C           Ambient Relative Humidity         FCC Part 15 Subpart B Class A, (non-condensing)           Regulatory Approvals         FCC Part 15 Subpart B Class A, (non-condensing)           EMI         CE EN 55032 Class A, (non-condensing)           EMS         IEMS 61000-6-4 Class A, (non-condensing)           EMS         IEC61000-4-2 (CESD), (non-condensing)           IEC61000-4-2 (CESD), (non-condensing)         IEC61000-4-4 (CES), (non-condensing)           IEC61000-4-2 (ESD), (non-condensing)         IEC61000-4-2 (ESD), (non-condensing)           EMS         IEC61000-4-3 (RS), (R	• • • • • • • • • • • • • • • • • • • •	Present
Budget   30Watts		2.4Watts for System
Certifications   Comparison   Comparison		
Operating Temperature         STD: -10°C to 70°C           Storage Temperature         -40°C to 85°C           Ambient Relative Humidity         5% to 95%, (non-condensing)           FCC Part 15 Subpart B Class A, (EN 61000-6-4 Class A, EN 61000-6-4 Class A, EN 61000-6-2 Class A, EN 61000-6-2 Class A, (EC61000-4-2 (ESD), (EC61000-4-3 (RS), (EC61000-4-3 (RS), (EC61000-4-5 (Surge), (EC61000-4-5 (Surge), (EC61000-4-6 (CS), (EC61000-4-8 (Magnetic Field))           Free Fall         IEC60068-2-32           Shock         IEC60068-2-6           Green         RoHS Compliant           Certifications         FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)	Relay Contact	24VDC, 1A resistive
Temperature	<b>Environmental Limits</b>	
## Ambient Relative Humidity   5% to 95%, (non-condensing)		
Regulatory Approvals	Storage Temperature	-40°C to 85°C
FCC Part 15 Subpart B Class A, CE EN 55032 Class A, EN 61000-6-4 Class A CE EN 55024 Class A, EN 61000-6-2 Class A, EN 61000-4-2 (ESD), IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-5 (Surge), IEC61000-4-5 (Surge), IEC61000-4-8 (Magnetic Field)    Free Fall		5% to 95%, (non-condensing)
EMI CE EN 55032 Class A,	<b>Regulatory Approvals</b>	
EMS   EN 61000-6-2 Class A,	ЕМІ	CE EN 55032 Class A,
Shock         IEC60068-2-27           Vibration         IEC60068-2-6           Green         RoHS Compliant           Certifications         FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)	EMS	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),
Vibration         IEC60068-2-6           Green         RoHS Compliant           Certifications         FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)	Free Fall	IEC60068-2-32
Green RoHS Compliant  FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)		
Certifications FCC, CE, UL 61010-1 (Pending), UL 61010-2-201 (Pending)		
UL 61010-2-201 (Pending)	Green	
Warranty 5 Years	Certifications	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



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