

## IMP-C100-XX Series

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



### Features

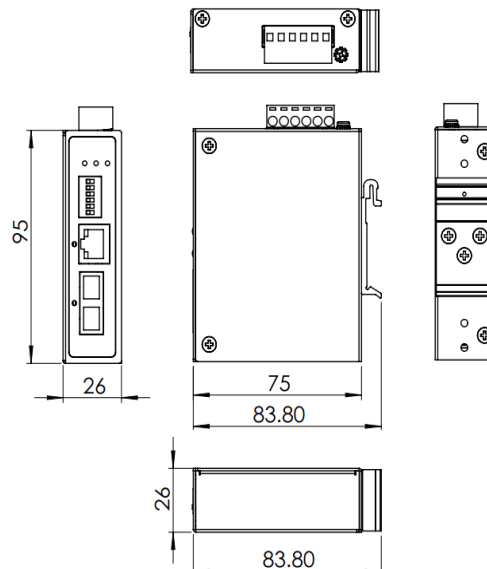
- ▶ 1\*10/100Tx Fast Ethernet with IEEE 802.3at Compliant PoE+
- ▶ 1\*100Fx SC/ST Connector (Multi / Single-Mode)
- ▶ RJ45 Port Support Auto MDI / MDI-X Function
- ▶ Auto Negotiation Speed, Half / Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Built-in Link Fault Pass Through (LFP)
- ▶ 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                 |                                                                                                                             | Power Requirement                  |                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standards</b>           | IEEE 802.3 10Base-T Ethernet<br>IEEE 802.3u 100Base-TX Fast Ethernet<br>IEEE 802.3af/at Power Over Ethernet                 | <b>Input Voltage</b>               | 48 to 55VDC, Redundant Inputs                                                                                                                                                                     |
| <b>Processing Type</b>     | Store and Forward                                                                                                           | <b>Power Connection</b>            | 1 removable 6-contact terminal block                                                                                                                                                              |
| <b>Protocol</b>            | CSMA/CD                                                                                                                     | <b>Reverse Polarity Protection</b> | Present                                                                                                                                                                                           |
| <b>Flow Control</b>        | IEEE 802.3x back pressure flow control                                                                                      | <b>Overload Current Protection</b> | Present                                                                                                                                                                                           |
| Switch Properties          |                                                                                                                             | <b>Power Consumption</b>           | 2.4Watts for System                                                                                                                                                                               |
| <b>Memory Buffer</b>       | 128kbits                                                                                                                    | <b>Max. PoE Power Budget</b>       | 30Watts                                                                                                                                                                                           |
| Interface                  |                                                                                                                             | <b>Relay Contact</b>               | 24VDC, 1A resistive                                                                                                                                                                               |
| <b>Ethernet Port</b>       | 1*RJ45 Port w/10/100T(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection                      | Environmental Limits               |                                                                                                                                                                                                   |
| <b>Fiber Port</b>          | 1*100Fx SC/ST type connector<br>Multi-mode: 50/125um or 62.5/125um<br>Single-mode: 9/125um or 10/125um                      | <b>Operating Temperature</b>       | STD: -10°C to 70°C<br>EOT: -40°C to 80°C                                                                                                                                                          |
| <b>Fiber Wavelength</b>    | Depends on fixed fiber modules                                                                                              | <b>Storage Temperature</b>         | -40°C to 85°C                                                                                                                                                                                     |
| <b>LED Indicators</b>      | Power 1, Power 2, Fault: On / Off<br>Fiber Port: Link / Act<br>Ethernet Port: Link / Act<br>PoE: On-connected to PD devices | <b>Ambient Relative Humidity</b>   | 5% to 95%, (non-condensing)                                                                                                                                                                       |
| Mechanical Characteristics |                                                                                                                             | Regulatory Approvals               |                                                                                                                                                                                                   |
| <b>Housing</b>             | Metal, IP30 protection                                                                                                      | <b>EMI</b>                         | FCC Part 15 Subpart B Class A,<br>CE EN 55032 Class A,<br>EN 61000-6-4 Class A                                                                                                                    |
| <b>Dimensions</b>          | 26 x 95 x 75 mm (W x H x D)                                                                                                 | <b>EMS</b>                         | CE EN 55024 Class A,<br>EN 61000-6-2 Class A,<br>IEC61000-4-2 (ESD),<br>IEC61000-4-3 (RS),<br>IEC61000-4-4 (EFT),<br>IEC61000-4-5 (Surge),<br>IEC61000-4-6 (CS),<br>IEC61000-4-8 (Magnetic Field) |
| <b>Weight</b>              | Unit: 0.661 lbs.<br>Shipping: 0.903 lbs.                                                                                    | <b>Free Fall</b>                   | IEC60068-2-32                                                                                                                                                                                     |
| <b>Mounting</b>            | DIN-Rail Mounting, Wall Mounting                                                                                            | <b>Shock</b>                       | IEC60068-2-27                                                                                                                                                                                     |
|                            |                                                                                                                             | <b>Vibration</b>                   | IEC60068-2-6                                                                                                                                                                                      |
|                            |                                                                                                                             | <b>Green</b>                       | RoHS Compliant                                                                                                                                                                                    |
|                            |                                                                                                                             | <b>Certifications</b>              | FCC, CE, UL 61010-1 (Pending),<br>UL 61010-2-201 (Pending)                                                                                                                                        |
|                            |                                                                                                                             | <b>Warranty</b>                    | 5 Years                                                                                                                                                                                           |

## ORDERING INFO

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

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