

# IMP-C1000-SFP Series

Compact Industrial Gigabit PoE+ Ethernet-to-Fiber Media Converter, 1\*10/100/1000TX (PSE: 30W) to 1\*100/1000 SFP Slot



## Features

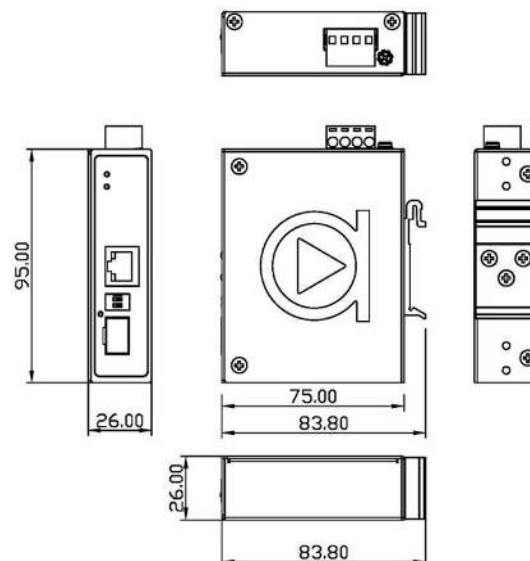
- ▶ Compact Industrial Grade Design
- ▶ UTP to Fiber Media Converter
- ▶ Embedded 1 Port PoE Injector Function
- ▶ RJ-45 Port Support Auto MDI/MDI-X Function
- ▶ Auto Negotiation Speed, Half/Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Built-in Link Fault Pass Through & Far End Fault
- ▶ Jumbo Frame Support: 10k bytes
- ▶ 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-C1000-SFP series is a compact IP-30 rated gigabit Ethernet-to-Fiber media converter featuring a 10/100/1000TX Ethernet port that supports IEEE 802.3at high power PoE supplying up to 30 watts, and has a dual rate 100/1000 SFP slot. It is perfectly designed to fulfill industrial applications that require distance extension and high bandwidth capabilities. This small form factor is ideal for saving space in outdoor applications such as factory automation, security, ITS transportation, power/utility, water wastewater treatment plants, and any other extreme ambient weather environments.

The IMP-C1000-SFP 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 there are two operating temperature range models in STD: -10°C to 70°C and EOT: -40°C to 80°C.

## DIMENSIONS



## SPECIFICATIONS

Technology	
<b>Standards</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3af/at Power over Ethernet
<b>Processing Type</b>	Store and Forward
<b>Protocol</b>	CSMA/CD
<b>Flow Control</b>	IEEE 802.3x back pressure flow control
Switch Properties	
<b>Memory Buffer</b>	1Mbits
<b>Jumbo Frame</b>	10Kbytes
<b>MAC Table Size</b>	8K
Interface	
<b>Ethernet Port</b>	1*RJ45 Port w/10/100/1000TX with PoE+, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
<b>PoE Pin Out</b>	V+, V+, V-, V- for pin1,2,3,6 Endspan, MDI Alternative A
<b>Fiber Port</b>	1*100/1000 SFP Slot
<b>Fiber Wavelength</b>	Depends on SFP modules
<b>DIP Switch</b>	DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: SFP 100Mbps/ 1000Mbps Unit: PWR, PoE
<b>LED Indicators</b>	TX: Link/Act/Speed Fiber: Link/Act/Speed

Power Requirements	
<b>Input Voltage</b>	48 to 55VDC, Redundant Inputs
<b>Power Connection</b>	1 removable 4-contact terminal block
<b>Power Consumption</b>	3 Watts for System
<b>Max. PoE Power Budget</b>	30 Watts
Mechanical Characteristics	
<b>Housing</b>	Metal, IP30 protection
<b>Dimensions</b>	26 x 95 x 75 mm (W x H x D)
<b>Weight</b>	Unit 0.55lbs.; Shipping Weight 0.99 lbs.
<b>Mounting</b>	DIN-Rail Mounting, Wall Mounting
Environmental Limits	
<b>Operating Temperature</b>	STD: -10°C to 70°C EOT: -40°C to 80°C
<b>Storage Temperature</b>	-40°C to 85°C
<b>Ambient Relative Humidity</b>	5% to 95%, (non-condensing)
Regulatory Approvals	
<b>EMI</b>	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
<b>EMS</b>	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)
<b>Free Fall</b>	IEC60068-2-32
<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, UL 61010-2-201
<b>Warranty</b>	5 Years

## ORDERING INFO

<b>IMP-C1000-SFP</b>	Compact Industrial Gigabit PoE+ Ethernet-to-Fiber Media Converter, 1*10/100/1000TX (PSE: 30W) to 1*100/1000 SFP Slot
<b>IMP-C1000-SFP-T</b>	Compact Industrial Gigabit PoE+ Ethernet-to-Fiber Media Converter, 1*10/100/1000TX (PSE: 30W) to 1*100/1000 SFP Slot; EOT: -40°C to 80°C

### Optional Accessories

<b>DR-75-48</b>	75 Watt Series / 48 VDC / 1.6 Amps Industrial Single Output DIN Rail Power Supply
<b>DR-120-48</b>	120 Watt Series / 48 VDC / 2.5 Amps Industrial Single Output DIN Rail Power Supply
<b>SDR-120-48</b>	120 Watt Series / 48 VDC / 2.5 Amps Industrial Slim High-Efficiency Single Output DIN Rail Power Supply
<b>SDR-240-48</b>	240 Watt Series / 48 VDC / 5.0 Amps Industrial Slim High-Efficiency Single Output DIN Rail Power Supply
<b>SDR-480-48</b>	480 Watt Series / 48 VDC / 10.0 Amps Industrial Slim High-Efficiency Single Output DIN Rail Power Supply