IMP-C1000-SFP-bt-24 Series

Compact Industrial Gigabit IEEE 802.3bt Ethernet-to-Fiber Media Converter, 1*10/100/1000Tx RJ45 (90W/Port) to 1*100/1000 SFP Slot; 12~55VDC Power Input
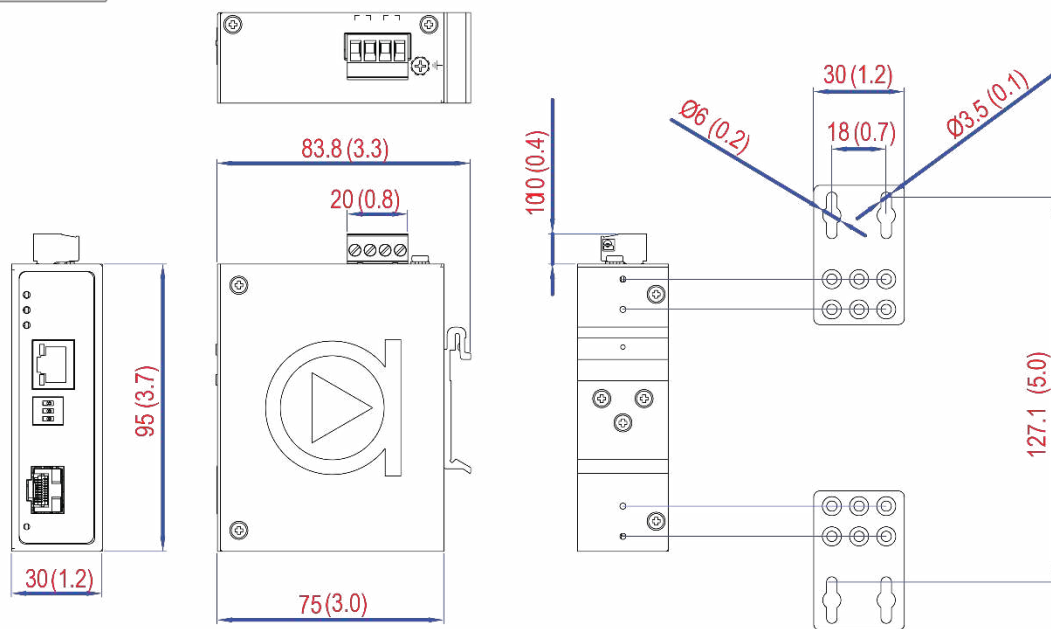
Features

▶ 1-Port 10/100/1000Tx RJ45 with IEEE 802.3bt Compliant PoE
▶ 1-Port 100/1000Fx SFP Slot
▶ Link Fault Pass-Through (LFP) Function Support
▶ PD Remote Reset Technology (PRRT) Function Support
▶ IP30 Rugged Metal Case Design
▶ Power Input: 12~55VDC in 4-Pin Terminal Block
▶ DIN-Rail or Wall Mountable
▶ Operating Temperature Range
  – STD: -10° to 65°C, EOT: -40° to 75°C
▶ 5-Year Warranty

INTRODUCTION

Antaira Technologies' IMP-C1000-SFP-bt-24 series is a compact IP30 rated gigabit Ethernet-to-Fiber media converter featuring a 10/100/1000TX Ethernet port that supports IEEE 802.3bt high power PoE supplying up to 90 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-bt-24 series has a built-in PD Remote Reset Technology function (PRRT). The PRRT function allows user to remotely reboot the media converter and reset the connected powered device (PD). The unit also has 12~55VDC 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 65°C and EOT: -40°C to 75°C.

DIMENSIONS

Unit: mm (inch)

Din-rail   Wall-mount

SPECIFICATIONS

Technology

Standards	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/bt Power over Ethernet
Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x flow control, back pressure flow control

Switch Properties

Memory Buffer	1Mbits
Jumbo Frame	10Kbytes
MAC Table Size	8K

Port Interface

Ethernet Port	1*10/100/1000 Base-T(X) with IEEE 802.3bt PoE Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDI-X
PoE Pin Out	V-, V-, V+, V+, for pin 1, 2, 3, 6 V+, V+, V-, V-, for pin 4, 5, 7, 8
Fiber Port	1*100/1000 SFP Slot
Wavelength	Depends on SFP Slot
DIP Switch	DIP Switch 1: PD Remote Reset Technology (PRRT) Enable/ Disable DIP Switch 2: LFP (Link Fault Pass) Enable/Disable DIP Switch 3: 100Mbps / 1000Mbps
LED Indicators	Power Status LED, IEEE802.3af/at PoE Enabled LED, IEEE 802.3bt PoE Enabled LED Ethernet Ports: On-Link/Flash-data transmitting SFP: Link/Active

Mechanical Characteristics

Housing	Metal, IP30 Protection
Dimensions	30 x 95 x 75mm
Weight	Unit: 0.74 lb Shipping: 0.97 lb
Mounting	DIN-Rail mounting, Wall mounting

Power Requirement

Input Voltage	12~55VDC, Redundant Inputs
Power Connection	Removable 4-Contact Terminal Block
Power Consumption	3W
Max. PoE Power Budget	90W

Environmental Limits

Operating Temperature	STD: -10°C to 65°C EOT: -40°C to 75°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 EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2 Class A: IEC61000-4-2,3,4,5,6,8
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE
Warranty	5 Years

ORDERING INFO

IMP-C1000-SFP-bt-24	Compact Industrial Gigabit IEEE 802.3bt Ethernet-to-Fiber Media Converter, 1*10/100/1000Tx (90W/Port) to 1*100/1000 SFP Slot, 12~55VDC Power Input
IMP-C1000-SFP-bt-24-T	Compact Industrial Gigabit IEEE 802.3bt Ethernet-to-Fiber Media Converter, 1*10/100/1000Tx (90W/Port) to 1*100/1000 SFP Slot, 12~55VDC Power Input; EOT: -40°C to 75°C