

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

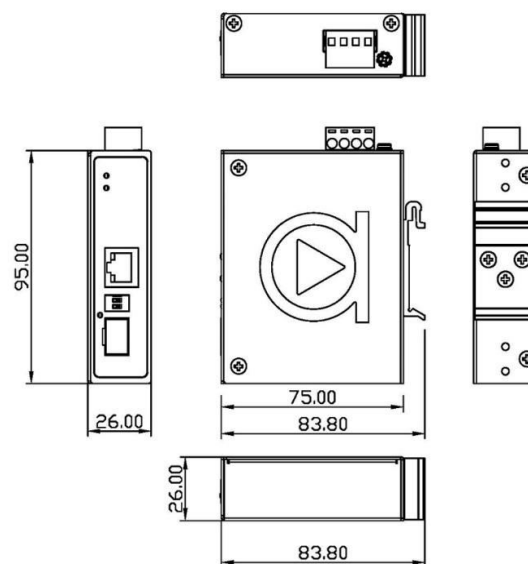
- ▶ Compact Industrial Grade Design
- ▶ UTP to Fiber Media Converter
- ▶ Embedded 1 Port PoE Injector Function
- ▶ RJ-45 Port Support Auto MDI/MDI-X Function
- ▶ Auto Negotiation Speed, Half/Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Built-in Link Fault Pass Through & Far End Fault
- ▶ 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	
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 Power over Ethernet
Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x back pressure flow control
Switch Properties	
Memory Buffer	1Mbits
Jumbo Frame	10Kbytes
MAC Table Size	8K
Interface	
Ethernet Port	1*RJ45 Port w/10/100/1000TX with PoE+, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
PoE Pin Out	V+, V+, V-, V- for pin1,2,3,6 Endspan, MDI Alternative A
Fiber Port	1*100/1000 SFP Slot
Fiber Wavelength	Depends on SFP modules
DIP Switch	DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: SFP 100Mbps/ 1000Mbps Unit: PWR, PoE
LED Indicators	TX: Link/Act/Speed Fiber: Link/Act/Speed

Power Requirements	
Input Voltage	48 to 55VDC, Redundant Inputs
Power Connection	1 removable 4-contact terminal block
Power Consumption	3 Watts for System
Max. PoE Power Budget	30 Watts
Mechanical Characteristics	
Housing	Metal, IP30 protection
Dimensions	26 x 95 x 75 mm (W x H x D)
Weight	Unit 0.55lbs.; Shipping Weight 0.99 lbs.
Mounting	DIN-Rail Mounting, Wall Mounting
Environmental Limits	
Operating Temperature	STD: -10°C to 70°C EOT: -40°C to 80°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 EN 55022 Class A
EMS	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)
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	Compact Industrial Gigabit PoE+ Ethernet-to-Fiber Media Converter, 1*10/100/1000TX (PSE: 30W) to 1*100/1000 SFP Slot
IMP-C1000-SFP-T	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

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

LNP-C500G Series

Compact 5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (PSE: 30W/Port) + 1*10/100/1000Tx

Preliminary



Features

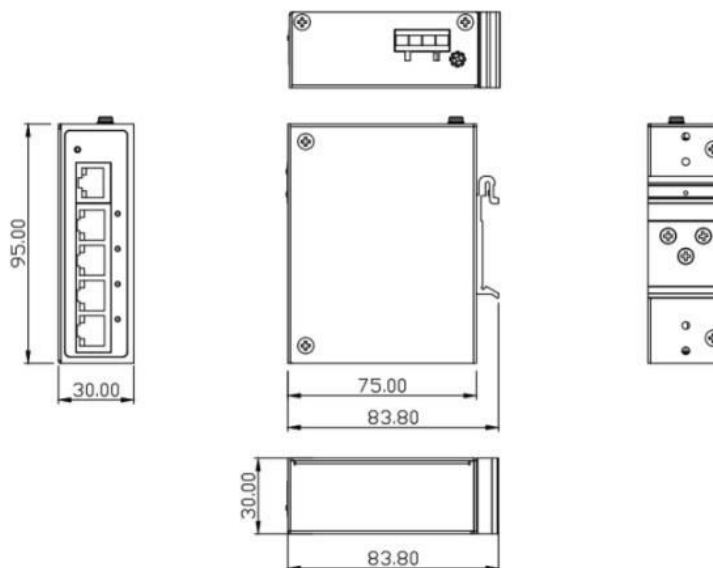
- ▶ Compact Industrial Grade Design
- ▶ Supports 4*10/100/1000Tx Gigabit Ethernet Ports (PSE: 30W/Port) and 1*10/100/1000Tx
- ▶ Supports Auto MDI/MDI-X Function
- ▶ Jumbo Frame Support: 10K
- ▶ Surge Protection: 2,000 VDC Support
- ▶ ESD Protection: 6,000 VDC Support
- ▶ Redundant Power Input Design: 48~55VDC
- ▶ Power Polarity Reserve Protection
- ▶ Overload Current Protection
- ▶ IP30 Rugged Metal Case Design
- ▶ DIN-Rail and Wall Mount Support
- ▶ Operating Temperature Range: STD:-10° to 70°C, EOT:-40° to 75°C
- ▶ 5-Year Warranty

INTRODUCTION

Antaira Technologies' **LNP-C500G series** is a compact 5-port industrial gigabit PoE+ unmanaged Ethernet switch. The small form factor of this metal IP30 rated design is 50% smaller allowing for a more versatile implementation. The LNP-C500G series is equipped with 4*10/100/1000Tx Ethernet ports that support IEEE 802.3af/at for a maximum of 30W/port and 1*10/100/1000Tx Ethernet port. The LNP-C500G series can handle high bandwidth applications in tight spaces.

The LNP-C500G series supports high EFT & ESD protection through the redundant power inputs that support reverse polarity and overload current protection. This product series supports DIN-rail as well as wall mountable orientations and provides operating temperature range models in STD: -10°C to 70°C and EOT: -40°C to 75°C. This is an industrial grade unit applicable for networking applications in factory automation, ITS, power/utility, water wastewater treatment plants, or any application that needs a compact solution.

DIMENSIONS



SPECIFICATIONS

Technology		Mechanical Characteristics	
Standards	IEEE 802.3 10Tx Ethernet	LED Indicator	Power 1, Power 2, Fault
	IEEE 802.3U 100Tx Fast Ethernet		Ethernet Ports: On – Link / Flash - data transmitting
	IEEE 802.3ab 1000Tx Gigabit Ethernet		PoE: On – connected to PD devices
	IEEE 802.3af/at Power over Ethernet		
Switch Properties		Housing	Metal, IP30 rated
Protocol	CSMA/CD	Dimensions	30 x 95 x 75 mm (W*H*D)
Data Process	Store and Forward	Weight	Unit: 0.77 lb; Shipping: 0.99 lb
Transfer Rate	14,880pps for 10Base-T Ethernet port	Mounting	DIN-Rail; Wall-mount (optional)
	148,880pps for 100Base-T Fast Ethernet port	Power Requirement	
	1480000pps for 1000Base-T Gigabit Ethernet	Input Voltage	48~55VDC, Redundant Input
Memory Buffer	1 Mbits	Power Connection	1 removable 4-contact terminal block
MAC Table Size	8K	Power Consumption	5.5 Watts for system
Jumbo Frame	10K bytes	Environmental Limits	
Flow Control	IEEE 802.3x flow control, back pressure flow control	Operating Temperature	STD: -10° to 65° C EOT: -40° to 75° C
		Storage Temperature	-40°C ~ 85°C
Port Interface		Ambient Relative Humidity	5 to 95%, (non-condensing)
Ethernet RJ45 Port	5*10/100/1000BaseTx with 4*PoE+, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection	Regulatory Approvals	
Protection		EMI	FCC Part 15 Subpart B Class, CE EN 55022 Class A
Overload Current	Present	EMS	EN 61000-6-2, EN 61000-6-4
Power Reverse Polarity	Present	Free Fall	IEC 60068-2-32
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable;	Shock	IEC 60068-2-27
	100Base-TX: 2-pair UTP/STP Cat. 5 cable.	Vibration	IEC 60068-2-6
	1000Base-Tx 4-pair UTP/STP Cat. 5/5e/6 cable	Green	RoHS Compliant
		Certifications	FCC, CE, UL-61010-1, 61010-2-201
		Warranty	5 Years

ORDERING INFO

LNP-C500G	Compact 5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (PSE: 30W/Port) + 1*10/100/1000Tx
LNP-C500G-T	Compact 5-Port Industrial Gigabit PoE+ Unmanaged Ethernet Switch, w/4*10/100/1000Tx (PSE: 30W/Port) + 1*10/100/1000Tx; EOT: -40° to 75°C

Optional Accessories

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