

# IMC-1000S-PH12

100/1000Base-T to 100/1000Base-X SFP with PoE+ (PSE) Fiber Converter (30W, 12V Booster)











Industrial unmanaged media converter with 1 Gigabit UTP port and 1 100/1000 SFP slot for copper and fiber interface conversion, Not only it supports the PoE+ standard IEEE802.3af/at to inject up to 30 watts of power into PoE devices, but it also supports 12Vdc boost. IMC-1000S-PH12 converter is designed for harsh environments, such as IP surveillance, industrial networking, intelligent transportation systems (ITS) and is also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

#### 🕳 Features 🛮

- Conversion between 10/100/1000Base-T and 100/1000Base-X Fiber cable interface
- Supports dual rate (100/1000) SFP for selectable Fast or Gigabit speed on fiber
- 12/24/48VDC (9.6~57VDC) redundant dual input power with built-in very high efficiency booster (97~99%) to rise up 55 VDC for PoE output
- Regulate PoE output voltage (55VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100meter
- Provides IEEE802.3at PoE output (30Watts)
- Supports Remote PD reset by fiber port link down
- Supports LFPT (Link Fault Pass Through)
- IP30 rugged metal housing and fanless
- Wide operating temperature -20~75° C
- CE, FCC, Railway traffic EN50121-4 certification
- Heavy industrial grade EMS, EMI EN61000-6-2, EN61000-6-4 certification
- Supports Jumbo frame 9K bytes packet

## Specifications •

Standard	IEEE 802.3	10Base-T 10Mbit/s Ethernet			
	IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet			
	IEEE 802.3ab	1000Base-T Gbit/s Ethernet over twisted pair			
	IEEE 802.3z	1000Base-X Gbit/s Ethernet over Fiber-Optic			
	IEEE 802.3x	Flow Control and Back pressure			
	IEEE 802.3at	PoE+ (Power over Ethernet enhancement)			
	IEEE 802.3af	PoE (Power over Ethernet)			
	IEEE802.1q	Tag VLAN			
RJ45 Ports	10/100/1000Base-T Auto MDI/MDI-X and Auto negotiation Function Supports UTP CAT.5e Twisted Pair cable				
Fiber Ports	100Base-X or 1000Base-X SFP slot 100Base-X or 1000Base-X set by DIP SW				
Data Process Architecture	Store and Forward mode or Pass Through mode Set by DIP SW				
Jumbo Frame	9K bytes				



# Industrial GbE PoE Converter

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Link Fault Pass Through (LFPT)	TX- Fiber: If TX port link down, the media converter will force Fiber port to link down						
<u> </u>			converter will force TX port				
DIP Switch			: Enable Alarm For Power Lo				
			OFF: Enable Alarm For Por	rt Link-Failure			
		e / OFF: LFPT Disable					
	Data Process Arc		d Farward switch made				
	Fiber Speed	gh mode / OFF : Store and	a Forward Switch mode				
	OFF: 1000Base-X / ON: 100Base-X						
	PoE Output						
		output / ON: Disable Po	E output				
	Remote PD reset  OFF: Disable Remote PD reset / ON: Enable Remote PD reset by fiber port link down						
Connector and	SFP Slot		,				
Pin Assignment	RJ-45 Socket: CAT.5e (10/100/1000Mbps) Twisted Pair cable						
		and Auto negotiation Func					
		orts IEEE 802.3at/af End-Sp					
		oin 1, 2. / PoE (V-): RJ-45		5, 7, 8)			
LED	Per Unit:			, , ,			
	. ,	, Power 2 (Green), Fault (An	nber)				
	Fiber LNK/ACT (		nnected to network, BLK: Re	ocaiva /Transn	nit Data		
	Fiber Speed:	to network / Orr. Not co	iniceted to network, ben. Ne	.ccive / Transn	iiit Data		
	Yellow: 1000Bas	se-X, Green : 100 Base- X					
	RJ-45 Port:	100 (Cross) 1000 (Vallau)					
		100 (Green), 1000 (Yellow)					
	LNK/ACT for RJ45(Green): ON: Connected to network, OFF: Not connected to network, BLK: Networking is active						
	PoE Status (Green):						
	Flash: PoE Fault (Over-load or short), ON: PoE normal working / OFF: PoE No Power output						
Davida a Dalawiti Duata ati a a			PoE normal working / OFF	: PoE No Pow	er output		
	Supported for P		PoE normal working / OFF	: PoE No Pow	ver output		
Overload Current Protection	Supported for Postson Supported	ower Input	J J		·		
Overload Current Protection	Supported for Post Supported 12/24/48VDC (9.	ower Input	PoE normal working / OFF		·		
Overload Current Protection	Supported for Post Supported 12/24/48VDC (9. terminal block	ower Input 6~57VDC), Redundant pow	J J	ect function a	·		
Overload Current Protection	Supported for Portal Supported  12/24/48VDC (9. terminal block Built-in very high Regulated PoE of	ower Input 6~57VDC), Redundant pow n efficiency booster(97~999 output voltage (55VDC) to si	er with polarity reverse prote	ect function a	nd removable		
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Overload Current Protection Power Supply  PoE Power Budget Power Consumption  Alarm Relay Contact Removable Terminal Block Operating Humidity Operating Temperature Storage Temperature Housing Dimensions Weight Installation	Supported for Portion 12/24/48VDC (9. terminal block Built-in very high Regulated PoE of distance to 100rd 30W  Input Voltage 12VDC 24VDC 48VDC Relay outputs w Provides 2 redur 5%~95% (Non-cellow) -20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IF 106 x 38.6 x 142 re 650g DIN Rail mounting	ower Input  6~57VDC), Redundant power efficiency booster(97~99% output voltage (55VDC) to signeter  Total Power Consumption 34.2W 34.7W 35.4W  ith current carrying capacity and and power, alarm relay condensing)  P30 Protection and fanless mm (D x W x H)  ng, or wall mounting (Option)	er with polarity reverse protection of the rise up 55 VDC for PoE of the rabilize PoE device, and guar Device Power Consumption  3.9W  4.4W  4.7W  2y of 1 A @24VDC  2 ontact, 6 Pin	ect function a output rantee deliver PoE Budget 30W 30W	nd removable y PoE power  Boost Efficiency 99.0%		
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Overload Current Protection Power Supply  PoE Power Budget Power Consumption  Alarm Relay Contact Removable Terminal Block Operating Humidity Operating Temperature Storage Temperature Housing Dimensions Weight Installation MTBF	Supported for Portion 12/24/48VDC (9. terminal block Built-in very high Regulated PoE of distance to 100rd 30W  Input Voltage 12VDC 24VDC 48VDC Relay outputs w Provides 2 redur 5%~95% (Non-cellow) -20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IF 106 x 38.6 x 142 re 650g DIN Rail mounting	ower Input  6~57VDC), Redundant power efficiency booster(97~99% output voltage (55VDC) to signeter  Total Power Consumption 34.2W 34.7W 35.4W  ith current carrying capacity and and power, alarm relay condensing)  P30 Protection and fanless mm (D x W x H)  ng, or wall mounting (Option)	er with polarity reverse protection of the rise up 55 VDC for PoE of the rabilize PoE device, and guar Device Power Consumption  3.9W  4.4W  4.7W  2y of 1 A @24VDC  2 ontact, 6 Pin	ect function a output rantee deliver PoE Budget 30W 30W	nd removable y PoE power  Boost Efficiency 99.0%		
Overload Current Protection Power Supply  PoE Power Budget Power Consumption  Alarm Relay Contact Removable Terminal Block Operating Humidity Operating Temperature Storage Temperature Housing Dimensions Weight Installation MTBF Warranty	Supported for Portion 12/24/48VDC (9. terminal block Built-in very high Regulated PoE of distance to 100rd 30W  Input Voltage 12VDC 24VDC 48VDC Relay outputs w Provides 2 redur 5%~95% (Non-c-20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IF 106 x 38.6 x 142 r 650g DIN Rail mounting 881,372 Hours (	ower Input  6~57VDC), Redundant power efficiency booster(97~99% output voltage (55VDC) to signeter  Total Power Consumption 34.2W 34.7W 35.4W  ith current carrying capacity and and power, alarm relay condensing)  P30 Protection and fanless mm (D x W x H)  ng, or wall mounting (Option)	er with polarity reverse protection of the rise up 55 VDC for PoE of the rabilize PoE device, and guar Device Power Consumption  3.9W  4.4W  4.7W  2y of 1 A @24VDC  2 ontact, 6 Pin	ect function a output rantee deliver PoE Budget 30W 30W	nd removable y PoE power  Boost Efficiency 99.0%		
Reverse Polarity Protection Overload Current Protection Power Supply  PoE Power Budget Power Consumption  Alarm Relay Contact Removable Terminal Block Operating Humidity Operating Temperature Storage Temperature Housing Dimensions Weight Installation MTBF Warranty  Certifications EMC	Supported for Policy Supported  12/24/48VDC (9. terminal block Built-in very high Regulated PoE of distance to 100r 30W  Input Voltage 12VDC 24VDC 48VDC Relay outputs w Provides 2 redur 5%~95% (Non-c-20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IF 106 x 38.6 x 142 r 650g DIN Rail mountir 881,372 Hours (5 years	ower Input  6~57VDC), Redundant power efficiency booster(97~99% output voltage (55VDC) to signeter  Total Power Consumption 34.2W 34.7W 35.4W  ith current carrying capacity and and power, alarm relay condensing)  P30 Protection and fanless mm (D x W x H)  ng, or wall mounting (Option)	er with polarity reverse protection of the rise up 55 VDC for PoE of the rabilize PoE device, and guar Device Power Consumption  3.9W  4.4W  4.7W  2y of 1 A @24VDC  2 ontact, 6 Pin	ect function a output rantee deliver PoE Budget 30W 30W	nd removable y PoE power  Boost Efficiency 99.0% 99.0%		
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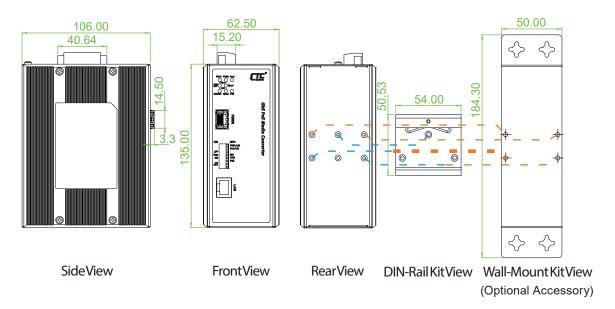


#### Industrial GbE PoE Converter



Immunity for Heavy Industrial Environment	EN 61000-6-2
Emission for Heavy Industrial Environment	EN 61000-6-4
EMS	EN61000-4-2 (ESD) Level 3, Criteria B
	EN61000-4-3 (RS) Level 3, Criteria A
	EN61000-4-4 (EFT) Level 3, Criteria A
	EN 61000-4-5 (Surge) Level 3, Criteria B
	EN 61000-4-6 (CS) Level 3, Criteria A
	EN61000-4-8 (PFMF) Field strength 300A/m Criteria A
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

## Dimensions



## Ordering Information

	RJ45	Fiber	PoE		Power Input		Certification			
Model Name	10/100/1000 Base-T	Dual Speed 100/1000Base-X	IEEE802.3af/at (PSE)	Power Budget	Redundant	EN50121-4	EN61000-6-2 EN61000-6-4	CE	FCC	Operating Temperture
IMC-1000S-PHE12	1	1 SFP	1	30W	12/24/48VDC	V	V	V	V	-20~75°C

# Optional Accessories

#### ■ Wall Mount Kit

IND-WMK02 Wall Mount kit for Industrial product, 184 x 50mm

#### ■ Industrial SFP Transceiver

The ISFP series of industrial grade SFP modules have been fully tested with all CTC Union industrial grade Ethernet switches for guaranteed compatibility and performance. Best performance can be guaranteed, even in mission-critical applications. (Please see CTC Union's Industrial SFP datasheets for more items and detailed information.)

ISFP-M7000-85-D(E)	Industrial SFP GbE 1000Base-SX, M/M, 500 meter,wave length 850nm, 7.5dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-S7020-31-D(E)	Industrial SFP 1000Base-LX, S/M, 20km, wave length 1310nm, 15dB, LC, DDMI, -10~70°C(-40~85°C)
ISFP-T7T00-00-(E)	Industrial SFP 10/100/1000Base-T UTP 100meter, -10~70°C (-40~85°C)
ISFP-M5002-31-D(E)	Industrial SFP 155M 100Base-FX, MM, 2km, wave length 1310nm, 12dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-S5030-31-D(E)	Industrial SFP 155M 100Base-FX, SM, 30km, 1310nm, 19dB, LC, DDMI, -10~70°C (-40~85°C)

#### ■ Industrial Power Supply

MDR-40-48 Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ +70°C

