Industrial GbE PoE Converter

12 IMC-1000S-PH12

1x GbE RJ45 to 100/1000Base-X SFP with PoE+ (PSE) (30W, 12V Booster)





Industrial unmanaged media converter with 1 Gigabit UTP port and 1 100/1000Mbps 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 power input 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 $\sim 75^\circ\text{C}$
- 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 Supports UTP CAT.5e Twis	MDI/MDI-X and Auto negotiation Function ted Pair cable
Fiber Ports	100Base-X or 1000Base-X 100Base-X or 1000Base-X	
Data Process Architecture	Store and Forward mode c	r Pass Through mode Set by DIP SW

Industrial GbE PoE Converter

1

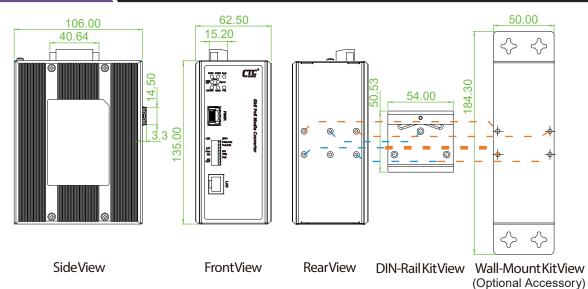
Jumbo Frame	9K bytes					
Link Fault Pass Through	TX- Fiber: If TX port link down, the media converter will force Fiber port to link down					
(LFPT)	Fiber-TX: If Fiber p	port link down, the media conv	verter will force TX port to link d	lown		
DIP Switch	ON: Disable Alarr	m For Power Loss / OFF:	Enable Alarm For Power Loss	For Power Loss		
	ON: Disable Alarr	m For Port Link-Failure / C	OFF: Enable Alarm For Port Lin	nk-Failure		
	ON: LFPT Enable	/ OFF: LFPT Disable				
		hitecture n mode / OFF : Store and I	Forward switch mode			
	Fiber Speed					
	OFF: 1000Base-X / ON: 100Base-X PoE Output					
		output / ON: Disable PoE c	putput			
	Remote PD reset					
Connector and		nole PD resel / UN: Enable	e Remote PD reset by fiber port	l IINK down		
Pin Assignment	SFP Slot	AT Eq. (10/100/1000Mbpa) Tu	inted Dair apple			
		AT.5e (10/100/1000Mbps) Tw and Auto negotiation Function	isteu Pali Cable			
		orts IEEE 802.3at/af End-Span	Altornativo A modo			
		pin 1, 2. / PoE (V-): RJ-45		1570)		
LED		pin 1, 2. / Poe (V-): RJ-45 1 (Green), Power 2 (Green), Fa		4, 0, 7, 0)		
LED			ork / OFF: Not connected to n	notwork RIK D	acaiva /Tranamit	
		llow): 1000Base-X, Green : 10		IELWUIK, DEN. N	eceive / Italisitiii	
		· · · · · · · · · · · · · · · · · · ·				
	RJ-45 Port: Speed: 10 (OFF), 100 (Green), 1000 (Yellow) LNK/ACT for RJ45(Green): ON: Connected to network, OFF: Not connected to network, BLK: Networking PoE Status (Green): Flash: PoE Fault (Over-load or short), ON: PoE normal working / OFF : PoE No Power				Notworking is a	
	POE Status (Gree	III): Flash: POE Fault (Over-load)	of short), ON: PUE hormal worki	ng / UFF:P	OE INO POWELOU	
Roverse Polarity Protection	Cupported for Do	vor loout				
Reverse Polarity Protection	Supported for Pov	wer Input				
Overload Current Protection	Supported		with polarity reverse protect fun	ation and roma	vable terminal b	
	Supported 12/24/48VDC (9.6	6~57VDC), Redundant power	with polarity reverse protect fun-		vable terminal bl	
Overload Current Protection	Supported 12/24/48VDC (9.0 Built-in very high e	6~57VDC), Redundant power efficiency booster(97~99%) to	rise up 55 VDC for PoE output	t		
Overload Current Protection	Supported 12/24/48VDC (9.0 Built-in very high e	6~57VDC), Redundant power efficiency booster(97~99%) to		t		
Overload Current Protection	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou	6~57VDC), Redundant power efficiency booster(97~99%) to	rise up 55 VDC for PoE output	t		
Overload Current Protection Power Supply	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter	6~57VDC), Redundant power efficiency booster(97~99%) to	rise up 55 VDC for PoE output	t	power distance	
Overload Current Protection Power Supply PoE Power Budget	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab	rise up 55 VDC for PoE output ilize PoE device, and guarantee	t e delivery PoE	power distance	
Overload Current Protection Power Supply PoE Power Budget	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab	rise up 55 VDC for PoE output ilize PoE device, and guaranter Device Power Consumption	t e delivery PoE PoE Budget	power distance Boost Efficien	
Overload Current Protection Power Supply PoE Power Budget	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W	rise up 55 VDC for PoE output ilize PoE device, and guarantee Device Power Consumption 3.9W	t e delivery PoE PoE Budget 30W	power distance Boost Efficien 99.0%	
Overload Current Protection Power Supply PoE Power Budget Power Consumption	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W	rise up 55 VDC for PoE output ilize PoE device, and guarantee Device Power Consumption 3.9W 4.4W 4.7W	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 99.0%	
Overload Current Protection Power Supply PoE Power Budget	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC Relay outputs with	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 99.0%	
Overload Current Protection Power Supply PoE Power Budget Power Consumption Alarm Relay Contact Removable Terminal Block	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC Relay outputs with Provides 2 reduce	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contac	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 99.0%	
Overload Current Protection Power Supply PoE Power Budget Power Consumption Alarm Relay Contact Removable Terminal Block Operating Humidity	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 24VDC 48VDC Relay outputs with Provides 2 redund 5%~95% (Non-ce	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contac	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 99.0%	
Overload Current Protection Power Supply PoE Power Budget Power Consumption Alarm Relay Contact Removable Terminal Block Operating Humidity Operating Temperature	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC Relay outputs with Provides 2 reduce 5%~95% (Non-co -20°C ~ 75°C	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contac	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 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	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 24VDC 48VDC Relay outputs with Provides 2 redund 5%~95% (Non-cu -20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IPS	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contac ondensing) 30 Protection and fanless	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 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	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC Relay outputs with Provides 2 redund 5%~95% (Non-co -20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IP3 106 x 38.6 x 142	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contac ondensing) 30 Protection and fanless	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 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	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC Relay outputs with Provides 2 redund 5%~95% (Non-ca -20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IP3 106 x 38.6 x 142 650g	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contact ondensing) 30 Protection and fanless 2mm (D x W x H)	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 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 Housing Dimensions Weight	Supported 12/24/48VDC (9.6 Built-in very high of Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC Relay outputs with Provides 2 redund 5%~95% (Non-co -20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IP3 106 x 38.6 x 142 650g DIN Rail mounting	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contact ondensing) 30 Protection and fanless 2mm (D x W x H) g or wall mounting (Optional)	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 99.0%	
Overload Current Protection Power Supply PoE Power Budget Power Consumption Alarm Relay Contact Removable Terminal Block Operating Humidity Operating Temperature Storage Temperature Storage Temperature Housing Housing Dimensions Weight Installation MTBF	Supported 12/24/48VDC (9.6 Built-in very high of Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC Relay outputs with Provides 2 redund 5%~95% (Non-ca -20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IP3 106 x 38.6 x 142 650g DIN Rail mounting 881,372 Hours (6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contact ondensing) 30 Protection and fanless 2mm (D x W x H) g or wall mounting (Optional)	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 99.0%	
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Overload Current Protection Power Supply PoE Power Budget Power Consumption Power Consumption Alarm Relay Contact Alarm Relay Contact Operating Humidity Operating Humidity Operating Humidity Operating Humidity Operating Temperature Storage Temperature Storage Temperature Housing Umensions Weight Installation MTBF Warranty Certification	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC Relay outputs with Provides 2 redund 5%~95% (Non-co -20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IP 106 x 38.6 x 142 650g DIN Rail mounting 881,372 Hours (0 5 years	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contact ondensing) 30 Protection and fanless 2mm (D x W x H) g or wall mounting (Optional) MIL-HDBK-217)	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 99.0%	
Overload Current Protection Power Supply PoE Power Budget Power Consumption Power Consumption Alarm Relay Contact Removable Terminal Block Operating Humidity Operating Humidity Operating Temperature Storage Temperature Housing Storage Temperature Housing Mither Storage Temperature Housing Certification	Supported 12/24/48VDC (9.6 Built-in very high e Regulated PoE ou 100meter 30W Input Voltage 12VDC 24VDC 48VDC Relay outputs with Provides 2 redund 5%~95% (Non-ce -20°C ~ 75°C -40°C ~ 85°C Rugged Metal, IP3 106 x 38.6 x 142 650g DIN Rail mounting 881,372 Hours (0 5 years CE FCC Part 15 Subp	6~57VDC), Redundant power efficiency booster(97~99%) to utput voltage (55VDC) to stab Total Power Consumption 34.2W 34.7W 35.4W n current carrying capacity of dant power, alarm relay contact ondensing) 30 Protection and fanless 2mm (D x W x H) g or wall mounting (Optional) MIL-HDBK-217)	Device Power Consumption 3.9W 4.4W 4.7W 1A @24VDC	t e delivery PoE PoE Budget 30W 30W	power distance Boost Efficien 99.0% 99.0%	
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2 – 7 www.ctcu.com / sales@ctcu.com / Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

Industrial GbE PoE Converter

EMS	EN61000-4-2 (ESD) Level 3, Criteria B
.2	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	g Informa	ation							
	RJ45	SFP	PoE		Power Input	С	ertification		A
Model Name	10/100/1000 Base-T(X)	Dual Speed 100/1000Base-X	IEEE802.3af/at (PSE)	Power Budget	Redundant	EN50121-4	EN61000-6-2 EN61000-6-4		Operating Temperture
IMC-1000S-PHE12	1	1	1	30W	12/24/48VDC	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 \sim 264VAC/120 \sim 370VDC, Output 48VDC, 40W, -20 \sim 70°C
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