

IMC-1000S-PB

1x GbE RJ45 to 100/1000Base-X SFP with IEEE802.3bt PoE PSE (90W)



- Supports LFPT (Link Fault Pass Through)
- Support Store & Forward, or Pass through mode



IMC-1000S-PB is a 10/100/1000Base-T to 100/1000Base-X GbE media converter which not only offers dual-speed fixed fiber transceiver or SFP cage module options for the optical interface, but also injects IEEE802.3af/at/bt PoE++ power through the electrical RJ-45 port. Housed in rugged DIN rail or wall mountable enclosures, IMC-1000S-PB 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

- Provides IEEE 802.3af/at/bt Type 4 PoE output (Up to 90W)
- Supports DIP SW for setting LFPT, Store & Forward or Pass through mode, and SFP speed

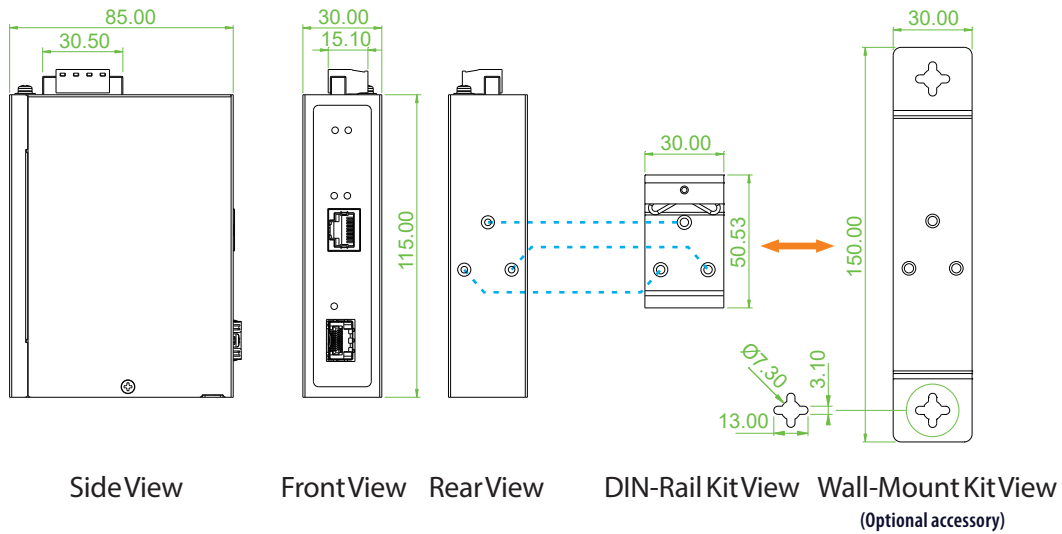
Specifications

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 IEEE802.3bt PoE++ IEEE 802.3at PoE+ (Power over Ethernet enhancement) IEEE 802.3af PoE (Power over Ethernet)	LED	Per Unit: Power 1 (Green), Power 2 (Green) Fiber LNK/ACT: 1000 Link/Act (Amber) 100 Link/Act (Green) Blk: Networking is active RJ-45 port: Speed: LNK/Act 1000 (Amber) LNK/Act 10/100 (Green) PoE Status (Green): ON : PoE normal working, Blink : PoE inactive								
Fiber Ports	SFP slot for 100Base-X or 1000Base-X, 100M/1000M speed set by DIP SW	Reverse Polarity Protection	Supported for Power Input								
RJ45 Ports	10/100/1000Base-T Auto MDI/MDI-X and Auto-Negotiation Function Supports UTP CAT.5e Twisted Pair cable	Overload Current Protection	Supported								
Data Process Architecture	Store and Forward	Removable Terminal Block	Provides 2 redundant power PWR1 and PWR2, 4 Pin								
Jumbo Frame	16K bytes	Operating Humidity	5%~95% (Non-condensing)								
Fiber Parameters	Fiber Cable (Multi-mode): 50/125um,62.5/125um Fiber Cable (Single-mode): 9/125um SFP, Distance depending on plugged-in Fiber Transceiver	Operating Temperature	-20°C ~ 70°C								
LFPT (Link Fault Pass Through)	TX- Fiber: If TX port link down, the media converter will force Fiber port to link down Fiber-TX: If Fiber port link down, the media converter will force TX port to link down	Storage Temperature	-40°C ~ 85°C								
DIP SW	SW1 LFPT Off: LFPT Disable On: LFPT Enable SW2 Data process Architecture Off : Store and Forward Switch mode On : Pass through mode SW3 Fiber Speed Off: 1000BaseX On: 100Base X SW4 Reserve	Housing	Rugged Metal, IP30 Protection and fanless								
Connector and Pin Assignment	SFP slot support 100/1000M SFP transceiver RJ-45 Socket: Cat 5e (10/100/1000Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support IEEE 802.3at/af End-Span, Alternative A mode PoE (V+): RJ-45 pin 1, 2, 4, 5 PoE (V-): RJ-45 pin 3, 6, 7, 8 Data (1,2,3,6,4,5,7,8)	Dimensions	80 x 30 x 115mm (D x W x H)								
		Weight	340g								
		Installation	DIN Rail mounting, or wall mounting (Optional)								
		Power Supply	48VDC (44~57VDC), Redundant power with polarity reverse protect function and removable terminal block Below recommend is for difference PoE application: 55~57VDC VDC for 90W (4 Pairs) 52~57VDC for 60W (4 Pairs) 52~57VDC for 30W (2 Pairs) 44~57VDC for 15.4W (2 Pairs)								
		PoE Power budget	90W								
		Power Consumption	<table border="1"> <thead> <tr> <th>Input Voltage</th> <th>Total Power Consumption</th> <th>Device Power Consumption</th> <th>PoE Budget</th> </tr> </thead> <tbody> <tr> <td>54 VDC</td> <td>94.5W</td> <td>3.8W</td> <td>90W</td> </tr> </tbody> </table>	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget	54 VDC	94.5W	3.8W	90W
Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget								
54 VDC	94.5W	3.8W	90W								
		MTBF	1,432,119 Hours MIL-HDBK-217								
		Warranty	5 years								

Certifications	
EMC	CE (EN55035, EN55032)
EMI	FCC Part 15 Subpart B Class A, CE

Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6

Dimensions



Ordering Information

Model Name	RJ45 UTP	Fiber	PoE Port		Power Input	Certification		Operating Temperature
	10/100/1000 Base-T	Dual Speed 100/1000Base-X	IEEE803.3af/at/bt	Power Budget	Redundant	CE	FCC	
IMC-1000S-PB-E	1	1 SFP	1	90W	48VDC	V	V	-20~70°C

Package List

- IMC-1000S-PB device
- Protective caps for SFP ports
- Din Rail bracket with screws
- Terminal block

Optional Accessories

Wall Mount Kit

IND-WMK03	Wall Mount kit for Industrial product (Compact, 150 x 30mm)
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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

NDR-120-48	Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 120W, -20 ~ +70°C
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