IMC-1001S-PH

1x GbE RJ45 to 1x 100/1000Base SFP with PoE PSE (30W)



- CE, FCC certified
- Supports LFPT (Link Fault Pass Through) and FEF (Far End Fault)



IMC-1001S-PH is a family of unmanaged Gigabit Ethernet media converters that support conversion between electrical 10/100/1000Base-T and optical 1000Base-X Ethernet and as PSE (Power Source Equipment) provides PoE+/PoE power over Ethernet. The IMC-1001S-PH utilizes an SFP cage for 100/1000Base-X compatible SFP modules. Housed in rugged DIN rail or wall mountable enclosures, the converter is designed for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and is also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

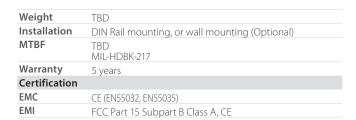
Features

- 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
- Provides IEEE 802.3at PoE output (30Watts)
- Provides a DIP-Switch to set functions
- IP30 rugged metal housing and fanless
- Wide operating temperature -20~70°C (IMC-1001S-PHE)
- Supports Jumbo frame 9K bytes packet

Specifications

- P						
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)					
	IEEE 802.1q 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	16K bytes					
Fiber	Fiber Cable (Multi-mode): 50/125um, 62.5/125um					
Parameters	Fiber Cable (Single-mode): 9/125um					
	Available distance: • SFP, Distance depend on plug-in Fiber Transceiver					
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 port link down, the media converter will force TX port to link down					
Far-End Fault (FEF)	Work with LFPT to prevents data loss					
DIP Switch	SW1 Data Process Architecture Off : Store and Forward Switch Mode On : Pass Through Mode					
	SW2 Off:LFPT Disable On:LFPT Enable					
	SW3 SFP Fiber Speed Off: 1000BaseX On: 100Base X					
	SW4 PoE Off: PoE Output Enable On: PoE Output Disable					

Connector	SFP Slot						
and Pin Assignment	RJ-45 Socket: CAT.5e (10/100/1000Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support RJ-45 Port support IEEE 802.3at/af End-Span, Alternative A mode.						
Connector and Pin Assignment	PoE (V+): RJ-45 pin 1, 2. PoE (V-): RJ-45 pin 3, 6. Data (1,2,3,6,4,5,7,8)						
LED	Per Unit: Power 1 (Green) ,Power 2 (Green)						
	Fiber Port LNK/ACT: 100 (Green), 1000 (Amber) ON: Connected to network / OFF: Not connected to network / BLK: Networking is active						
	RJ-45 port LNK/ACT: 10/100 (Green), 1000 (Amber) ON: Connected to network / OFF: Not connected to network / BLK: Networking is active						
	PoE Status ON: PoE normal working / OFF : PoE No (Green) Power output						
Reverse Polarity Protection	Supported for Power Input						
Overload Current Protection	Supported						
Power Supply	48VDC (44~57VDC), Redundant power with polarity reverse protect function and removable terminal block						
PoE Power budget	30W						
Power Consumption	TBD						
Removable Terminal Block	Provides 2 redundant power, 4 Pin						
Operating Humidity	5%~95% (Non-condensing)						
Operating Temperature	-20~70°C (IMC-1001S-PHE)						
Storage Temperature	-40°C ~ 85°C						
Housing	Rugged Metal, IP30 Protection and fanless						
Dimensions	TBD						



EMS (Electromagnetic Susceptibility) Protection Level	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

Ordering Information

	RJ45 UTP	Fiber	PoE Port		Power Input	Certification		Operating
Model Name	10/100/1000 Base-T	Dual Speed 100/1000Base-X		Power Budget	Redundant CE	FCC	Temperature	
IMC-1001S-PHE	1	1 SFP	1	30W	48VDC	V	V	-20~70℃

■ Package List

- IMC-1001S-PH 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)

■ 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