

IMC-1001C & IMC-1001CS

- ¶1x GbE RJ45 to 1x 1000Base Fiber (SC) (Compact, Size)
- ▶ 1x GbE RJ45 to 1x 100/1000Base SFP (Compact, Size)
- ▲ Supports LFPT (Link Fault Pass Through) and FEF (Far End Fault)
- ▲ Provides a DIP-Switch to set functions
- ▲ 12/24/48VDC (9.6~60VDC) Redundant input power
- ▲ CE and FCC certified





These compact models are unmanaged industrial grade gigabit Ethernet media converters that support conversion between electrical 10/100/1000Base-T and optical 1000Base-X Ethernet. Housed in rugged DIN rail or wall mountable enclosures, these converters are designed for harsh environments, such as industrial networking and intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

Features

- IP30 rugged metal housing and fanless
- Wide operating temperature -20 ~ 70° C
- Store-and-Forward mode and Pass through mode (set by DIP SW)
- Conversion between 10/100/1000Base-T and 1000Base-X Fiber cable interface

Specifications Standard IEEE 802.3 10Base-T 10Mbit/s Ethernet 100Base-TX, 100Base-FX, Fast Ethernet IEEE 802.3u 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 RJ45 Ports 10/100/1000Base-T Auto MDI/MDI-X and Auto negotiation Function Fiber Ports 1000Base-SX/LX SC (IMC-1001C) 100/1000Base-X SFP Slot (IMC-1001CS) Data Process Architecture Store and Forward Switch mode or Pass through mode set by DIP SW Jumbo Frame 16K Bytes (For Store and Forward Switch mode) Fiber Parameters Fiber Cable (Multi-mode): 50/125um, 62.5/125um Fiber Cable (Single-mode): 9/125um Wavelength: 1310nm (Multi-mode/Single-mode) Available distance: (IMC-1001C) 500M (Multi-mode SX) / 20KM (Single-mode) / 40KM (Single-mode) Distance depend on SFP Fiber Tranceiver (IMC-1001CS) 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



Industrial GbE Media Converter



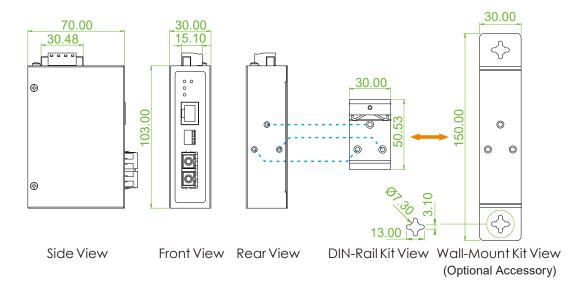
DIP Switch	Data Process Architecture OFF: Store and forward switch mode, ON: Pass through mode				
	LFPT OFF: LFPT Disable, ON: LFPT Enable				
	SFP Fiber Speed (IM OFF: 1000Base-X, O				
Connector	Fiber SC Multi-mode, 500M/ SC Single-mode, 20KM, 40KM (IMC-1001C) SFP Slot (IMC-1001CS)				
	RJ-45 Socket Auto MDI/MDI-X and Auto negotiation Function				
LED	Per Unit: Power 1 (Green), Power 2 (Green)				
	SFP Fiber port Speed & LinK/Act (IMC-1001CS) 100Base-X (Green), 1000Base-X (Amber) SC/ST Fiber port Speed & LinK/Act (IMC-1001C) 1000Base-X (Amber)				
	RJ-45 port: Speed & Link/Act: 10/100 (Green), 1000 (Yellow)				
Reverse Polarity Protection					
Overload Current Protection		'			
Power Supply	12/24/48VDC (9.6~60VDC) Redundant input power with polarity reverse protect function and removable terminal block				
Power Consumption					
	Input Voltage	12V	24V	48V	
	IMC-1001CS	1.8W	2W	2.4W	
	IMC-1001C	1.8W	2W	2.4W	
Removable Terminal Block	Provides for dual in	put power. 4 Pin			
Operating Humidity	5% ~ 95% (Non-con	· · · · · · · · · · · · · · · · · · ·			
Operating Temperature	-20~70°C (IMC-10010				
Storage Temperature	-40 ~ 85°C				
Housing		Protection and fanless			
Dimensions	70x 30x 103 mm (D)				
Weight	230g (IMC-1001C)				
	250g (IMC-1001C) 225g (IMC-1001CS)				
Installation	DIN Rail, or wall mounting (Optional)				
MTBF	1,278,798 Hours (IMC-1001C) 1,940,623 Hours (IMC-1001CS) (MIL-HDBK-217)				
Warranty	5 years				
Certifications					
EMC	CE (EN55032, EN550	035)			
EMI (Electromagnetic Interference)	FCC Part 15 Subpar	t B Class A, CE			
EMS	EN61000-4-2 (ESD)	Level 3, Criteria B			
(Electromagnetic	EN61000-4-3 (RS) Level 3, Criteria A				
Susceptibility) Protection Level	EN61000-4-4 (Burst) Level 3, Criteria A				
Trotteetion Level	EN61000-4-5 (Surge) Level 3, Criteria B				
	EN61000-4-6 (CS) Level 3, Criteria A				
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A				
Shock	IEC 60068-2-27				
Freefall	IEC 60068-2-32				
Vibration	IEC 60068-2-6				



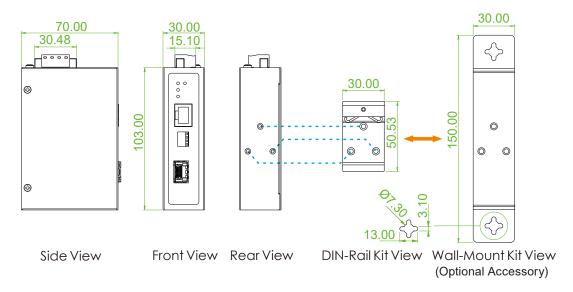


Dimensions

► IMC-1001C



► IMC-1001CS



Ordering Information

	RJ45		Fiber	Power Input	Certification	0
Model Name	10/100/1000Base-T	1000Base-X	Dual Speed 100/1000Base-X	Redundant Power	CE, FCC	Operating Temperature
IMC-1001C-E	1	SC		12/24/48VDC	V	-20~70°C
IMC-1001CS-E	1		1 SFP	12/24/48VDC	V	-20~70°C

Connector Type	Connectivity Distance		
SC (IMC-1001C-E only)	001:500M (M/M) 002 : 2km (M/M) 020:20km (S/M) 040:40km (S/M)		
	020A: WDM 20km A type (TX:1310nm)		
	020B: WDM 20km B type (TX: 1550nm)type		



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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-20-24	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 24VDC, 24W, -20 ~ +70°C
MDR-40-48	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ +70°C

