Industrial Managed PoE Media Converter

12 IMC-1000MS

1x GbE RJ45 to 1x 100/1000Base-X SFP

 \gg Supports LFPT (Link Fault Pass Through) and FEF (Far End Fault)

- >> SNMP, Web Based and In-Band Management,
- » Remote Loop-Back Test
- » EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified





Industrial managed media converter with 1 Gigabit UTP port and 1 100/1000Mbps SFP slot for copper and fiber interface conversion, to meet the requirements for extended transmission distance, fanless design, high MTBF, supports wide operating temperature, and redundant 12/24/48VDC power input, it is suitable for heavy-duty applications in harsh environments such as industrial factory automation and data centers, intelligent transportation systems, 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
- Redundant dual DC power input 12/24/48VDC (9.6 ~ 60VDC)
- IP30 rugged metal housing and fanless
- Wide operating temperature -20~75°C (IMC-1000MS-E)
- Supports Digital Diagnostic Monitor Interface (DDMI) for SFP
- Supports EMS Management
- Dying gasp (remote power failure detection)

Specifications				
Standard	IEEE 802.3	10Base-T 10Mbit/s Ethernet		
	IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet		
	IEEE 802.3ab	1000Base-TX 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 802.3ah	OAM management		
Fiber Ports	100Base-X or 1000Base-	X set by Web supports Auto Laser Shutdown (ALS), Supports DDMI for SFP diagnostic		
RJ45 Ports	10/100/1000Base-T Auto	MDI/MDI-X and Auto negotiation Function, Supports UTP CAT.5e Twisted Pair Cable		
CPU Watch Dog	Supported			
Push Button	Reset, Load default seting			
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 port link down, the media converter will force TX port to link down				
Far-End Fault (FEF)	Work with LFPT to prevents data loss			
LED	Per Unit : Power 1 (Green), Power 2 (Green), Fault (Amber)			
	Fiber LNK/ACT (Green): ON: Connected to network, OFF: Not connected to network, BLK: Receive /Transmit data Fiber speed : Yellow : 1000Base-X, Green : 100Base-X 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 is a			

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Reverse Polarity Protection	Supported for power Input	
Overload Current Protection	Supported	
Power Supply	12/24/48VDC (9.6 \sim 60VDC) , Redundant power with polarity Reverse protect function and removable termin block	
Alarm Relay Contact	Relay outputs with current carrying capacity of 1A @24VDC	
	Relay alarm output for power fail or port link down	
	Provides 2 redundant power, alarm relay contact, 7 Pin	
Power Consumption	4.8 W	
	5% ~ 95% (Non-condensing)	
Operating Temperature	-20 ~ 75°C (IMC-1000MS-E)	
Storage Temperature	-40 ~ 85°C	
Housing	Rugged Metal, IP30 Protection and fanless	
Dimensions	106 x 38.6 x 142.1mm (D x W x H)	
Weight	5	
Installation	DIN Rail mounting or wall mounting (Optional)	
MTBF	1,153,428 Hours (MIL-HDBK-217)	
Warranty	5 years	
Certification		
EMI	CE	
EMI (Electromagnetic) Interference)	FCC Part 15 Subpart B Class A, CE	
Railway Traffic	EN50121-4	
Immunity for Heavy Industrial Environment	EN61000-6-2	
Emission for Heavy Industrial Environment	EN61000-6-4	
EMS	EN61000-4-2 (ESD) Level 3, Criteria B	
(Electromagnetic Susceptibility)	EN61000-4-3 (RS) Level 3, Criteria A	
Protection Level	EN61000-4-4 (Burst) Level 3, Criteria A	
	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	
	IEC 60068-2-6	

Software Specifications

Management	Ingress/Egress bandwidth control with 64K granularity
	Web management, Firmware upgrade via Web
	Supports SNMP, MIB for management
	Supports 802.1Q tag VLAN, 16 Tag VLAN group, MIB counters display
Configuration	IP Configuration, Password Setting, Converter Configuration, Port Configuration, MIB Counter, SNMP Configuration, VLAN Group Configuration and Alarm Configuration
Diagnostic & Monitor	Supports Link Fault Pass-Through (LFPT) Function, Broadcast/Multicast/Unicast Storm Filter, SNMP Alarm Trap for Power Loss and Port Link Up/Down
In-Band Remote m	ode
Management	Supports in-band management from FRM220 Chassis with FRM220-1000MS card
	Ingress/Egress bandwidth control with 64K granularity
Configuration	IP Configuration, Converter Configuration, Port Configuration, MIB Counter, VLAN Group Configuration, Alarm Configuration and PoE Configuration
Diagnostic & Monitor	Remote Loop Back Test, Supports Link Fault Pass Through (LFPT) Function, Broadcast/Multicast/Unicast Storr Filter

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106.00 38.60 30.00 15.20 45.72 \Leftrightarrow Π Г 000 30.00 0 0 0 142.10 0 84.00 ۲ 14.50 Ô 0 0 0 0 0 4.57 \diamond **Side View Front View Rear View** DIN-Rail Kit View Wall-Mount Kit View (Optional Accessory)

Orderin	ig Inforn	nation						
		RJ45	SFP	Power Input		Certification		
Model Name	Managed	10/100/1000 Base-T(X)	Dual Speed 100/1000Base-X	Redundant	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	Operating Temperature
IMC-1000MS-E	V	1	1	12/24/48VDC	V	V	V	-20~75°C

Optional Accessories

Wall Mount Kit

IND-WMK01 Wall Mount kit for Industrial product, 184 x 30mm

Industrial SFP Transceiver

Dimensions

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