IMC-100



1x FE RJ45 to 1x 100Base-FX Fiber (ST/SC)

- >> Supports LFPT (Link Fault Pass Through) and FEF (Far End Fault)
- » Provides a DIP-Switch to Set Functions
- >> Supports Power Failure Alarm Message by Relay
- >> 12/24/48VDC (9.6~60VDC) Redundant Dual Power input
- » UL60950-1, EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified













The industrial grade unmanaged 100M Ethernet media converter that supports conversion between electrical 10/100Base-TX and optical 100Base-FX Ethernet. Housed in rugged DIN rail or wall mountable enclosures, the converter is designed for harsh environments, such as industrial networking and intelligent transportation systems (ITS) and is also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications. Wide operating temperature range models (-40 to 75°C) fulfill the special needs of industrial automation applications.

Features

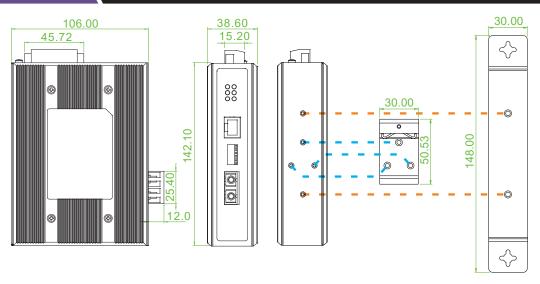
- IP30 rugged metal housing and fanless
- Wide operating temperature -40 ~ 75°C
- Store-and-Forward mode and Pass Through mode (set by DIP SW)
- Conversion between 10/100Base-TX and 100Base-FX cable interface

Specifications \			
Standard	IEEE 802.3	10Base-T 10Mbit/s Ethernet	
	IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet	
	IEEE 802.3x	Flow Control	
RJ45 Ports	10/100Base-TX Auto MDI/MDI-X and Auto-Negotiation Function Supports UTP CAT.5e Twisted Pair Cable		
Fiber Ports	100Base-FX (SC/ST connectors)		
Switch Architecture	Store and Forward in Switch mode		
	Supports 1024 MAC addre	esses in Switch mode	
Ethernet Packet length	2046Byte (Max) in Switch mode		
Jumbo Frame	9K bytes in Pass through (Converter mode)		
Fiber Parameters	Fiber Cable (Multi-mode): 5	50/125um,62.5/125um	
	Fiber Cable (Single-mode):	9/125um	
	Wavelength: 1310nm (Multi-mode/Single-mode)		
	Available distance: 2KM (Multi-mode) / 30k	KM (Single-mode) / 50KM (Single-mode)	
Link Fault Pass Through	TX- Fiber: If TX port link do	own, 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 prevent	s data loss	

Industrial Fast Ethernet Media Converter

DIP Switch	TP Auto Negotiation OFF: Auto Mode / ON: Force Mode				
	Force TP Speed OFF: 100 Mbps / ON: 10 Mbps				
	Force TP Duplex OFF: Full Duplex / ON: Half Duplex				
	LFPT ON: Enables LFPT (Link Fault Pass Through) / OFF: Disables LFPT (Link Fault Pass through)				
	Flow control ON: Flow control enable / OFF: Flow control disable				
	Mode OFF: Switching mode / ON: Pass through converter mode				
Connector	Fiber				
	SC (Multi-mode, 2km), SC (Single-mode, 30km, 50KM) ST (Multi-mode, 2km), ST (Single-mode, 30km, 50KM)				
	RJ-45 Socket: CAT.5e (10/100Mbps) Twisted Pair cable				
LED	Auto MDI/MDI-X and Auto-Negotiation Function				
LED	PWR 1 (Green): ON: Power1 active / OFF: Power1 is inactive				
	PWR 2 (Green): ON: Power2 active / OFF: Power2 is inactive				
	Fault (Red): ON: Fiber or TP has failed / OFF: TP are functional				
	Fiber (Green):				
	ON: Connected to network / OFF: Not connected to network, BLK: Receive/Transmit data				
	100 (Amber):				
	ON: 100Mbps / OFF: 10Mbps				
	LAN (Green): ON: Connected to network / OFF: Not connected to network, BLK: Networking is active				
Reverse Polarity Protection	Supported for power input				
Overload Current Protection	Supported Supported				
Power Supply	• •				
Alarm Relay Contact	1 2 1				
Removable Terminal Block	, , , , , , , , , , , , , , , , , , , ,				
Power Consumption					
Operating Humidity	2.9 W 5% ~ 95% (Non-condensing)				
Operating Temperature	, 3,				
Storage Temperature					
Housing					
	Rugged Metal, IP30 Protection and fanless				
Weight	106 x 38.6 x 142.1mm (D x W x H)				
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	DIN Rail mounting or wall mounting (Optional)				
MTBF	1,199,572 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	EN 61000-6-2				
Emission for Heavy Industrial Environment	EN 61000 6 4				
EMS	EN61000-4-2 (ESD) Level 3, Criteria B				
(Electromagnetic Susceptibility)	EN61000-4-3 (RS) Level 3, Criteria A				
Protection Level					
	EN61000-4-5 (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				
Safety	UL60950-1				
Shock	IEC 60068-2-27				
Freefall	IEC 60068-2-32				
Vibration	IEC 60068-2-6				

Dimensions



Side View

Front View Rear View DIN-Rail Kit View

Wall-Mount Kit View (Optional Accessory)

Orderin	ig Informatio	on						
	RJ45	SC/ST	Power Input	Certification				
Model Name	10/100Base-TX	100Base-FX	Redundant	UL60950-1	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	Operating Temperature
IMC-100-E	1	1	12/24/48VDC	V	V	V	V	-40~75°C

Connector Type	Connectivity Distance
SC, ST	002:2km (M/M) 030:30km (S/M) 050:50km (S/M)
	020A: WDM 20km A type (TX:1310nm)
	020B: WDM 20km B type (TX: 1550nm)
	* MOQ is requested for ST type

Optional Accessories

■ Wall Mount Kit

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

■ 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