

IMC-100C

1x 10/100Base RJ45 to 1x 100Base Fiber (ST/SC), Compact Size



- Supports LFPT (Link Fault Pass Through) and FEF (Far End Fault)
- Provides a DIP-Switch to set functions



IMC-100C is a compact sized, unmanaged industrial grade 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.

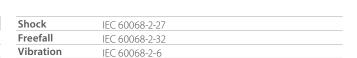
Features

- DC input power 12/24/48VDC (9.6 ~ 60VDC) or 24VAC (18~36VAC)
- IP30 rugged metal housing, compact size 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

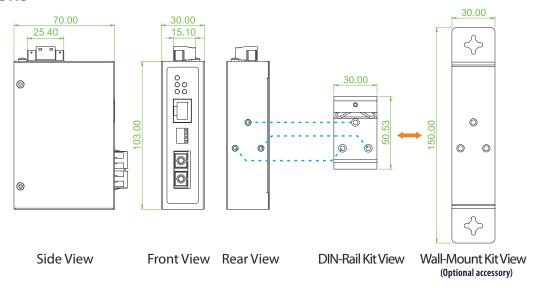
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Standard	IEEE 802.3 10Base-T 10Mbit/s Ethernet
	IEEE 802.3u 100Base-TX, 100Base-FX, Fast Ethernet
	IEEE 802.3x Flow Control
RJ45 Ports	10/100Base-TX Auto MDI/MDI-X and Auto-Negotiation
	Function
Elle en De ute	Supports UTP CAT.5e Twisted Pair cable
Fiber Ports	100Base-FX (SC/ST connectors)
Switch Architecture	Store and Forward in Switch mode
	Supports 1024 MAC addresses in Switch mode
Ethernet Packet length	2046Byte (Max) in Switch mode
Jumbo Frame	9K bytes in Pass through (Converter mode)
Fiber	Fiber Cable (Multi-mode): 50/125um,62.5/125um
Parameters	Fiber Cable (Single-mode): 9/125um
	Wavelength: 1310nm (Multi-mode/Single-mode)
	Available distance: 2KM (Multi-mode)
	30KM (Single-mode) 50KM (Single-mode)
Link Fault	TX- Fiber: If TX port link down, the media converter will
Pass Through	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	Force Fiber port Duplex
	OFF: Full Duplex ON: Half Duplex
	LFPT:
	ON: Enables LFPT (Link Fault Pass through) OFF: Disables LFPT
	Architecture:
	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
	Auto MDI/MDI-X and Auto-Negotiation Function Support

LED	PWR (Green): ON: Power activ	ve / OFF: Power is inactive	
	Fiber (Green):		
	LNK/Act (Green) : Link &	Active	
	Dup (Green) : Fiber port	Full or Half duplex	
	LAN:100 (Green): 100M Link & 10 (Green): 10M Link & Ad		
Reverse Polarity Protection	Supported for power input		
Overload Current Protection	Supported		
Power Supply	12/24/48VDC (9.6~60VDC) or 24VAC (18~36VAC), polarity reverse protect function and removable terminal block		
Power	Input Voltage	Watt(W)	
Consumption	12VDC	1.8W	
	24VDC	1.8W	
	48VDC	2.1W	
Removable Terminal Block	Provide for 1x DC input powe	r (2 Pin)	
Operating Humidity	5% ~ 95% (Non-condensing)		
Operating Temperature	-40 ~ 75°C		
Storage Temperature	-40 ~ 85°C		
Housing	IP30 rugged metal housing ,compact size and fanless		
Dimensions	70 x 30 x 103 mm (D x W x H)		
Weight	215q		
Installation	DIN Rail mounting, Wall Mour	nting (Optional)	
MTBF	1,558,180 Hours (MIL-HDBK-217)	-	
Warranty	5 years		



Certifications	
EMC	CE (EN55032, EN55035)
EMI	FCC Part 15 Subpart B Class A, CE
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
	EN61000-4-5 (Surge) Level 3, Criteria B
	EN61000-4-6 (CS) Level 3, Criteria A
	EN61000-4-8 (PFMF) Field strength 300A/m Criteria A

Dimensions



Ordering Information

	RJ45 UTP Port	Fiber	Power Input	Certif	ication	Operating
Model Name	10/100Base-TX	100Base-FX	Single power	CE	FCC	Operating Temperature
IMC-100C-E	1	1 SC	12/24/48VDC	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	n B type (TX: 1550n	m)		

■ Package List

- IMC-100C device
- Terminal block
- Din Rail with screws

Optional Accessories

■ Wall Mount Kit

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

■ Industrial Power Supply

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