

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



- EN50121-4, CE, FCC, EN61000-6-2, EN61000-6-4 certified
- 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. Standard operating temperature range models (-10 to 60°C) and 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 (IMC-100C-E)
- Store-and-Forward mode and Pass Through mode (set by DIP SW)
- Conversion between 10/100Base-TX and 100Base-FX cable interface

Specifications

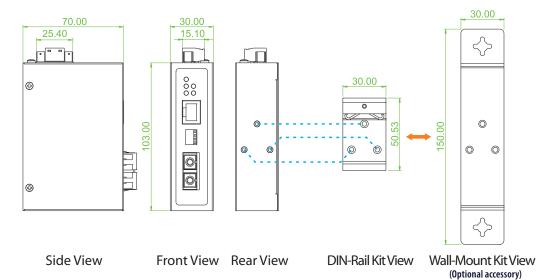
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Standard	IEEE 802.3 10Base-T 10Mbit/s Ethernet	LED	PWR (Green): ON	J: Power active / OFF: Power is inactive	
	IEEE 802.3u 100Base-TX, 100Base-FX, Fast Ethernet		Fiber (Green): LNK/Act (Green) : Link & Active		
	IEEE 802.3x Flow Control				
RJ45 Ports	10/100Base-TX Auto MDI/MDI-X and Auto-Negotiation) : Fiber port Full or Half duplex	
	Function			100M Link & Active I0M Link & Active	
Fiber Ports	Supports UTP CAT.5e Twisted Pair cable	Reverse	To (diccit).		
Switch	100Base-FX (SC/ST connectors)	Polarity	Supported for power input		
Architecture	Store and Forward in Switch mode	Protection			
	Supports 1024 MAC addresses in Switch mode	Overload			
Ethernet Packet length		Current Protection	Supported		
	9K bytes in Pass through (Converter mode)	Power Supply		5~60VDC) or 24VAC (18~36VAC), polarity	
Fiber	Fiber Cable (Multi-mode): 50/125um,62.5/125um			unction and removable terminal block	
Parameters	Fiber Cable (Single-mode): 9/125um	Power Consumption	Input	Watt(W)	
	Wavelength: 1310nm (Multi-mode/Single-mode)		Voltage 12VDC	1.8W	
	Available distance: 2KM (Multi-mode)		24VDC	1.8W	
	30KM (Single-mode) 50KM (Single-mode)		48VDC	2.1W	
Link Fault Pass Through	TX- Fiber: If TX port link down, the media converter will force Fiber port to link down	Removable Terminal Block			
(LFPT)	Fiber-TX: If Fiber port link down, the media converter will force TX port to link down	Operating Humidity 5% ~ 95% (Non-condensing)			
Far-End Fault (FEF)	Work with LFPT to prevents data loss	Operating Temperature	-40 ~ 75°C (IMC-100C-E)		
DIP Switch	Force Fiber port Duplex OFF: Full Duplex ON: Half Duplex	Storage Temperature	-40 ~ 85°C		
	LFPT:	Housing	IP30 rugged metal housing ,compact size and fanless		
	ON: Enables LFPT (Link Fault Pass through) OFF: Disables LFPT	Dimensions	70 x 30 x 103 mm (D x W x H)		
	Architecture:	Weight	215g		
	OFF: Switching mode	Installation	DIN Rail mounting, Wall Mounting (Optional)		
Connector	ON: Pass through Converter mode Fiber: SC (Multi-mode, 2km), SC (Single-mode, 30km, 50KM)	MTBF	1,558,180 Hours (MIL-HDBK-217)		
connector	TIDEL SC (MULTINOUC, ZKIT), SC (SINGIC THOUC, SOKIT, SOKIT)				
connector	ST (Multi-mode, 2km), ST (Single-mode, 30km, 50KM)	Warranty	Even		
connector	ST (Multi-mode, 2km), ST (Single-mode, 30km, 50KM) RJ-45 Socket: CAT.5e (10/100Mbps) Twisted Pair cable	Warranty	5 years		



Industrial Unmanaged Fast Ethernet Media Converter

Certifications		EMS	EN61000-4-2 (ESD) Level 3, Criteria B	
EMC	CE (EN55032, EN55035)	(Electromagnetic	EN61000-4-3 (RS) Level 3, Criteria A	
EMI	FCC Part 15 Subpart B Class A, CE	Susceptibility) Protection Level	EN61000-4-4 (EFT) Level 3, Criteria A	
Railway	EN50121-4		EN61000-4-5 (Surge) Level 3, Criteria B	
Traffic			EN61000-4-6 (CS) Level 3, Criteria A	
Immunity for Heavy Industrial			EN61000-4-8 (PFMF) Field strength 300A/m Criteria A	
	EN 61000-6-2	Shock	IEC 60068-2-27	
environment		Freefall	IEC 60068-2-32	
Emission for		Vibration	IEC 60068-2-6	
Heavy Industrial Environment	EN 61000-6-4			

Dimensions



Ordering Information

Model Name	RJ45 UTP Port	Fiber Power	Power Input		Certification			On such in a
	10/100Base-TX 100Base-FX	Single power	Railway EN50121-4	EN61000-6-2 EN61000-6-4	Œ	FCC	Operating Temperature	
MC-100C-E	1	1 SC	12/24/48VDC	V	V	V	V	-40~75℃
Connector Typ	e Connecti	vity Distance						
SC, ST		/M) 030:30km (20km A type (TX: 20km B type (TX:	1310nm)	M)				
Package List	t							
IMC-100C dDin Rail with		• Te	erminal block					

Optional Accessories

Wal	I Mount	Kit
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IND-WMK03	Wall Mount kit for Industrial product (Compact, 150 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

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