



The industrial grade compact size 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

- 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

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 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 Parameters	Fiber Cable (Multi-mode): 50/125um,62.5/125um				
	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 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				



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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						
LED	Auto MDI/MDI-X and Auto negotiation Function PWR (Green):						
	ON: Power active / OFF: Power is inactive						
	Fiber (Green): LNK/Act (Green) : Link & Active, Duple (Green) : Fibe	ar port Full or Half duploy					
	LAN:	de (Green) : Fiber port Fuil of Hall duplex					
	100 (Green): 100M Link & Active / 10 (Green): 10M Link & Active						
Reverse Polarity Protection							
Overload Current Protection							
Power Supply	12/24/48VDC (9.6~60VDC) or 24VAC (18~36VAC), pol terminal block	arity reverse protect function and removable					
Power Consumption	Input Voltage	Watt(W)					
	12VDC	1.8W					
	24VDC	1.8W					
	48VDC	2.1W					
Removable Terminal Block	Provide for 1x DC input power (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	215g						
Installation	DIN Rail mounting, Wall Mounting (Optional)						
MTBF	1,558,180 Hours (MIL-HDBK-217)						
Warranty	5 years						
Certifications							
EMC EMI	CE (EN55032, EN55035)						
Railway Traffic	FCC Part 15 Subpart B Class A, CE						
Immunity for Heavy	EN50121-4						
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	EN61000-4-4 (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						
Shock	IEC 60068-2-27						
Freefall	IEC 60068-2-32						
Vibration	IEC 60068-2-6						



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Dimensions



Ordering Information

	RJ45	Fiber Power Input Certification							
Model Name	10/100Base-TX	100Base-FX	Single Power	EN50121-4	EN61000-6-2 EN61000-6-4	CE	FCC	Operating Temperature	
IMC-100C-E	1	1 SC	12/24/48VDC	V	V	V	V	-40~75°C	
Connector Type	Connectivity	Distance							
SC, ST	002:2km (M/M	002:2km (M/M) 030:30km (S/M) 050:50km (S/M)							
	020A: WDM 20	020A: WDM 20km A type (TX:1310nm)							
	020B: WDM 20	020B: WDM 20km B type (TX: 1550nm)							

Optional Accessories

Wall Mount Kit

IND-WMK03Wall 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