IMC-100-PH12



1x FE RJ45 to 1x 100Base-FX Fiber (SC/ST) with PoE PSE (30W, 12/24/48VDC)

- >> 12/24/48VDC (9.6~57VDC) Redundant Dual Power Input with Power Booster
- >> Regulate PoE Output Voltage (52VDC) to Stabilize PoE Device, and Guarantee Delivery PoE Power Distance to 100Meter
- >> Supports Remote PD Reset by Fiber port Link Down
- >> Supports LFPT (Link Fault Pass Through) and FEF (Far End Fault)





IMC-100-PH12 is a 10/100Base-TX to Fixed 100Base-FX unmanaged Ethernet media converter that also injects PoE+/PoE power through the electrical RJ-45 port. Housed in rugged DIN rail or wall mountable enclosures, the converter is designed for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and is also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

Features

- Conversion between 10/100Base-TX and 100Base-FX SC or ST Fiber interface
- Provides IEEE 802.3at PoE output (30Watts)
- Provides a DIP-Switch to set functions
- IP30 rugged metal housing and fanless
- Wide operating temperature -20~75°C
- Supports Jumbo frame 9K bytes packet

Specifications			
Standard	IEEE 802.3	10Base-T 10Mbit/s Ethernet	
	IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet	
	IEEE 802.3x	Flow Control and Back pressure	
	IEEE 802.3at	PoE+ (Power over Ethernet enhancement)	
	IEEE 802.3af	PoE (Power over Ethernet)	
	IEEE 802.1q	Tag VLAN	
RJ45 Ports	10/100Base-TX Auto MDI/MDI-X and Auto-Negotiation Function		
	Supports UTP CAT.5e Twisted Pair cable		
Fiber Ports	100Base-FX with SC or ST connector		
Data Process Architecture	Store and Forward mode or Pass Through mode (Set by DIP SW)		
Jumbo Frame	9K bytes		
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 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 prevents data loss		

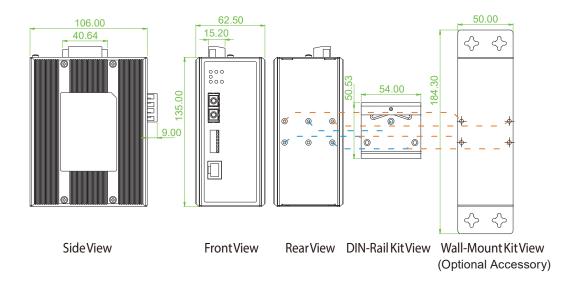
Industrial GbE PoE Media Converter

DIP Switch	ON: Disable Alarm OFF: Enable Alarm					
	ON: Disable Alarm For Port Link-Failure					
	OFF: Enable Alarm For Port Link-Failure ON: LFPT Enable, OFF: LFPT Disable					
	Data process Architecture:					
	ON: Pass through mode					
	OFF: Store and Forward Switch mode PoE Output					
	OFF: Enable PoE output					
	ON: Disable PoE output Remote PD reset (Figure 2)					
	OFF: Disable Remote PD reset ON: Enable Remote PD reset by fiber port link down					
Fiber Connector	Fiber: SC / ST (Multi-mode, 2KM), SC / ST (Single-mode, 30KM, 50KM)					
RJ45 Connector and Pin Assignment	RJ-45 Socket: CAT.5e (10/100Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support RJ-45 Port support IEEE 802.3at/af End-Span, Alternative A mode. PoE (V+): RJ-45 pin 1, 2. PoE (V-): RJ-45 pin 3, 6. Data (1,2,3,6)					
LED		Green), Power 2 (Green), Fa				
	Fiber LNK/ACT (Gree	en): ON: Connected to netw OFF: Not connected to r				
		BLK: Receive /Transmit				
	Fiber Speed :Green					
		: 10 (OFF), 100 (Green)				
	LNK/ACT for RJ45(C	Green): ON: Connected to no OFF: Not connected t				
		BLK: Networking is a	ctive			
	, ,	PoE States (Green) Flash: PoE Fault (Over-load or short) ON: PoE normal working, OFF: PoE No Power output				
Reverse Polarity Protection	Supported for Powe	· ·				
Overload Current Protection	Supported					
Power Supply	12/24/48VDC (9.6~57VDC), Redundant power with polarity reverse protect function and removable terminal block Built-in very high efficiency booster(97~99%) to rise up 52VDC for PoE output Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100meter (Figure 1)					
PoE Power Budget	30W					
Power Consumption	Power consumption & Bo					
	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget	Boost Efficiency	
	12VDC	34W	3.5W	30W	98.4%	
	24VDC	34.4W	4.1W	30W	99.0%	
Alorm Dolor Contact	48VDC	34.9W	4.3W	30W 30W	99.0% 98.0%	
Alarm Relay Contact	48VDC Relay outputs with c	34.9W urrent carrying capacity of ²	4.3W 1A @24VDC			
Removable Terminal Block	48VDC Relay outputs with c Provides 2 redundar	34.9W urrent carrying capacity of at power, alarm relay contact	4.3W 1A @24VDC			
Removable Terminal Block Operating Humidity	48VDC Relay outputs with c Provides 2 redundar 5% ~ 95% (Non-co	34.9W urrent carrying capacity of at power, alarm relay contact	4.3W 1A @24VDC			
Removable Terminal Block Operating Humidity Operating Temperature	A8VDC Relay outputs with c Provides 2 redundar 5% ~ 95% (Non-co -20 ~ 75°C	34.9W urrent carrying capacity of at power, alarm relay contact	4.3W 1A @24VDC			
Removable Terminal Block Operating Humidity	A8VDC Relay outputs with c Provides 2 redundar 5% ~ 95% (Non-co -20 ~ 75°C -40 ~ 85°C	34.9W urrent carrying capacity of and the power, alarm relay contact and ensing)	4.3W 1A @24VDC			
Removable Terminal Block Operating Humidity Operating Temperature Storage Temperature	A8VDC Relay outputs with c Provides 2 redundar 5% ~ 95% (Non-co -20 ~ 75°C -40 ~ 85°C	34.9W urrent carrying capacity of an antipower, alarm relay contact and ensing) Protection and fanless	4.3W 1A @24VDC			
Removable Terminal Block Operating Humidity Operating Temperature Storage Temperature Housing	A8VDC Relay outputs with c Provides 2 redundar 5% ~ 95% (Non-co -20 ~ 75°C -40 ~ 85°C Rugged Metal IP30	34.9W urrent carrying capacity of an antipower, alarm relay contact and ensing) Protection and fanless	4.3W 1A @24VDC			
Removable Terminal Block Operating Humidity Operating Temperature Storage Temperature Housing Dimensions	Relay outputs with c Provides 2 redundar 5% ~ 95% (Non-co -20 ~ 75°C -40 ~ 85°C Rugged Metal IP30 106 x 62.5 x 135ml 655g	34.9W urrent carrying capacity of an antipower, alarm relay contact and ensing) Protection and fanless	4.3W 1A @24VDC			
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Removable Terminal Block Operating Humidity Operating Temperature Storage Temperature Housing Dimensions Weight Installation MTBF Warranty Certification	A8VDC Relay outputs with comprovides 2 redundar 5% ~ 95% (Non-complete 20 ~ 75°C) -40 ~ 85°C Rugged Metal IP30 106 x 62.5 x 135mm 655g DIN Rail mounting of 801,948 Hours MIL-HDBK-217	34.9W urrent carrying capacity of and power, alarm relay contact ndensing) Protection and fanless m (D x W x H)	4.3W 1A @24VDC			
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EMS	
(Electromagnetic Susceptibility)	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
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Dimensions



Orderii	ng Informat	ion					
	RJ45	Fiber	PoE		Power Input	Certification	Operating
Model Name	10/100Base-TX	100Base-FX	IEEE802.3at (PSE)	Power Budget	Redundant Power	CE, FCC	Temperature
IMC-100-PHF12	1	SC/ST	1	30W	12/24/48VDC	V	-20~75°C

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

Optional Accessories

■ Wall Mount Kit

IND-WMK02 Wall Mount kit for Industrial product, 184 x 50mm

■ Industrial Power Supply

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