IMC-P101 Series

IEEE 802.3af PoE Ethernet-to-fiber media converters



Features and Benefits

- 10/100BaseT(X) auto-negotiation and auto-MDI/MDI-X
- IEEE 802.3af-compliant PoE PSE equipment
- Power failure alarm by relay output
- · Supports store-and-forward mode and pass-through mode
- -40 to 75°C operating temperature range (-T models)
- Redundant dual DC power inputs

Certifications



Introduction

IMC-P101 Ethernet-to-fiber media converters provide Ethernet media conversion from 10/100BaseT(X) to 100BaseFX (with SC or ST connectors). These converters are classified as power source equipment (PSE), and when used in this way, they provide up to 15.4 watts to IEEE 802.3af-compliant powered devices (PDs), eliminating the need for additional wiring. The IMC-P101 converters support IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, and MDI/MDI-X auto-sensing, providing a complete solution for your industrial Ethernet network.

Specifications

	Fiber Cable Type	OM1	50/125 μm	G.652
		N	/ulti-Mode	Single-Mode
Optical Fiber			100BaseF	x
100BaseFX Ports (single-mode ST connector)	IMC-P101-S-ST Series: 1			
100BaseFX Ports (single-mode SC connector)	IMC-P101-S-SC Series: 1			
100BaseFX Ports (multi-mode ST connector)	IMC-P101-M-ST Series: 1			
100BaseFX Ports (multi-mode SC connector)	IMC-P101-M-SC Series: 1			
Ethernet Interface				

	Multi-Mode		Single-Mode	
Fiber Cable Type		OM1	50/125 µm	G.652
		OMT	800 MHz x km	
Тур	ical Distance	4 km	5 km	40 km
	Typical (nm)		1300	1310
Wavelength	TX Range (nm)	12	60 to 1360	1280 to 1340
	RX Range (nm)	1100 to 1600		1100 to 1600

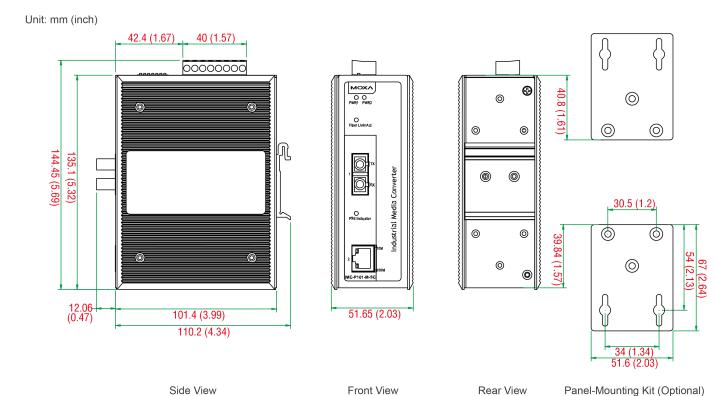


			100BaseFX	x
			Multi-Mode	Single-Mode
	Fibe	er Cable Type	OM1 50/125 μm 800 MHz x km	G.652
		TX Range (dBm)	-10 to -20	0 to -5
	Optical Power	RX Range (dBm)	-3 to -32	-3 to -34
	Oplical Power	Link Budget (dB)	12	29
		Dispersion Penalty (dB)	3	1
	attenuator to pre Note: Compute t	event damage caused by e	specific fiber transceiver as	
Magnetic Isolation Protection	1.5 kV (built-in)			
PoE Ports (10/100BaseT(X), RJ45 connector)	1			
Power Parameters				
Input Current	130 mA @ 48 VDC			
Input Voltage	46 to 57 VDC			
Overload Current Protection	Supported			
Power Consumption	130 mA @ 48 VDC			
Physical Characteristics				
Housing	Metal			
Dimensions	144.5 x 122.3 x 51.65 mm (5.69 x 4.81 x 2.03 in)			
Weight	710 g (1.56 lb)			
Installation	DIN-rail mounting			
Environmental Limits				
Operating Temperature		0 to 60°C (32 to 140°F) els: -40 to 75°C (-40 to 167°	²F)	
Storage Temperature (package included)	-40 to 85°C (-40 to	9185°F)		
Ambient Relative Humidity	5 to 95% (non-cor	ndensing)		
Standards and Certifications				
EMC	EN 55032/24			
EMI	CISPR 32, FCC Pa	art 15B Class A		
EMS	IEC 61000-4-3 RS IEC 61000-4-4 EF IEC 61000-4-5 Sur		/ kV	
Environmental Testing	IEC 60068-2-2 IEC 60068-2-3			



Safety	EN 60950-1, UL 60950-1
Vibration	IEC 60068-2-6
MTBF	
Time	435,210 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x IMC-P101 Series converter
Documentation	1 x quick installation guide 1 x warranty card

Dimensions



Ordering Information

Model Name	Operating Temp.	Fiber Module Type
IMC-P101-M-SC	0 to 60°C	Multi-mode SC
IMC-P101-M-ST	0 to 60°C	Multi-mode ST
IMC-P101-S-SC	0 to 60°C	Single-mode SC
IMC-P101-S-ST	0 to 60°C	Single-mode ST
IMC-P101-M-SC-T	-40 to 75°C	Multi-mode SC
IMC-P101-M-ST-T	-40 to 75°C	Multi-mode ST



Model Name	Operating Temp.	Fiber Module Type
IMC-P101-S-SC-T	-40 to 75°C	Single-mode SC
IMC-P101-S-ST-T	-40 to 75°C	Single-mode ST

Accessories (sold separately)

Rack-Mounting Kits

RK-4U	19-inch rack-mounting kit
Wall-Mounting Kits	
WK-46	Wall-mounting kit, 2 plates, 8 screws, 46.5 x 66.8 x 1 mm

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