

IMC-P101 Series

IEEE 802.3af PoE Ethernet-to-fiber media converters



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



Introduction

IMC-P101 series 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 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

Technology

Standards:

IEEE 802.3 for 10BaseT
 IEEE 802.3u for 100BaseT(X), 100BaseFX
 IEEE 802.3af for Power-over-Ethernet

Interface

RJ45 Ports: 10/100BaseT(X)
Fiber Ports: 100BaseFX (SC/ST connectors)
LED Indicators: PWR1, PWR2, Fiber Link, 10/100M (TP port), PSE Indicator
DIP Switches:

| DIP No. | Function | ON | OFF |
|---------|--------------------------|--------------------|--------------|
| 1 | Auto Negotiation | Enable* | Disable |
| 2 | Force TP Speed | 100 Mbps* | 10 Mbps |
| 3 | Force TP Duplex | Full Duplex* | Half Duplex |
| 4 | Link Fault Pass Through | Enable* | Disable |
| 5 | Operating Mode | Store-and-Forward* | Pass Through |
| 6 | PSE | Disable | Enable* |
| 7 | P.R.R. (PD Remote Reset) | Enable | Disable* |

* Default DIP switch setting.

Alarm Contact: One relay output with current carrying capacity of 1 A @ 24 VDC

Optical Fiber

| | 100BaseFX | |
|------------------|--|--------------------|
| | Multi-mode | Single-mode |
| Wavelength | 1300 nm | 1310 nm |
| Max. TX | -14 dBm | 0 dBm |
| Min. TX | -20 dBm | -5 dBm |
| RX Sensitivity | -32 dBm | -34 dBm |
| Link Budget | 12 dB | 29 dB |
| Typical Distance | 5 km ^a 4 km ^b | 40 km ^c |
| Saturation | -6 dBm | -3 dBm |

a. 50/125 μm, 800 MHz*km fiber optic cable
 b. 62.5/125 μm, 500 MHz*km fiber optic cable
 c. 9/125 μm, 3.5 PS/(nm*km) fiber optic cable

Physical Characteristics

Housing: Metal
Dimensions: 144.45 x 122.3 x 51.65 mm (5.69 x 4.81 x 2.03 in)
Weight:
 Product only: 525 g
 Packaged: 710 g
Installation: DIN-Rail mounting, wall mounting (with optional kit)

Environmental Limits

Operating Temperature:
 Standard Models: 0 to 60°C (32 to 140°F)
 Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

Power Requirements

Input Voltage: 48 VDC (46 to 57 VDC), redundant inputs
Power Consumption: 430 mA @ 48 VDC (max.)
Connection: Removable terminal block
Overload Current Protection: 1.6 A (protects against two signals shorted together)
Reverse Polarity Protection: Protects against V+/V- reversal

Standards and Certifications

Safety: UL 508
EMC: CE, FCC
EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A

EMS:

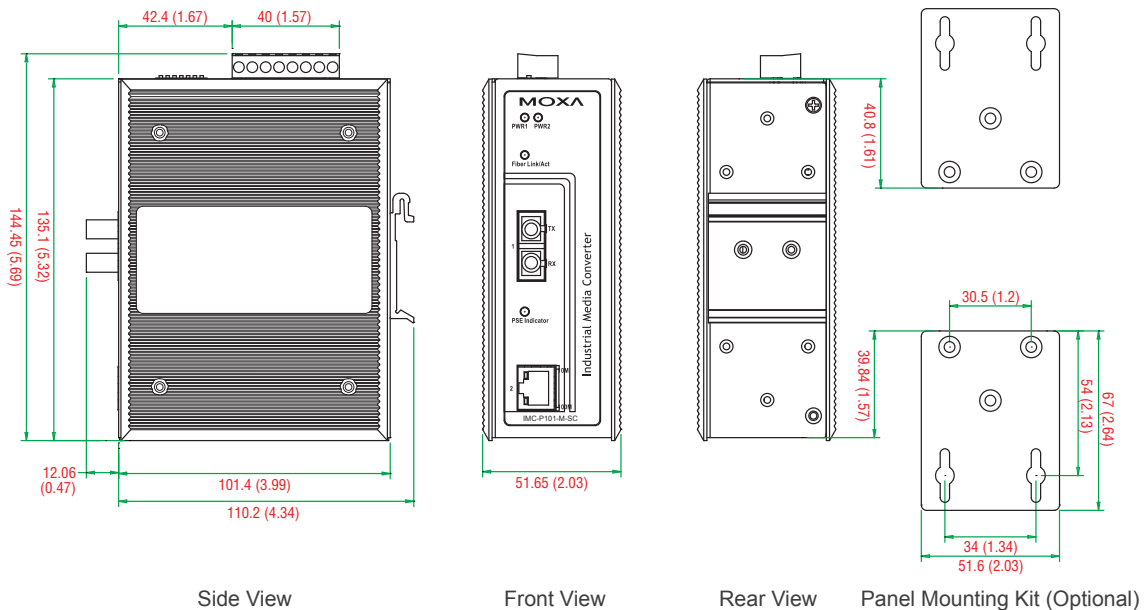
IEC 61000-4-2 (ESD) Level 4,
 IEC 61000-4-3 (RS) Level 3,
 IEC 61000-4-4 (EFT) Level 4,
 IEC 61000-4-5 (Surge) Level 3,
 IEC 61000-4-6 (CS) Level 3,
 IEC 61000-4-8 (PFMF) Level 1,
 IEC 61000-4-11
Shock: IEC 60068-2-27
Freefall: IEC 60068-2-32
Vibration: IEC 60068-2-6
Green Product: RoHS, CRoHS, WEEE
MTBF (mean time between failures)
Time: 435,210 hrs
Database: Telcordia (Bellcore), GB

Warranty

Warranty Period: 5 years
Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Ordering Information

Available Models

- IMC-P101-M-SC:** PoE industrial 10/100BaseT(X) to 100BaseFX media converter, multi-mode port with SC connector, 0 to 60°C operating temperature
- IMC-P101-M-ST:** PoE industrial 10/100BaseT(X) to 100BaseFX media converter, multi-mode port with ST connector, 0 to 60°C operating temperature
- IMC-P101-S-SC:** PoE industrial 10/100BaseT(X) to 100BaseFX media converter, single-mode port with SC connector, 0 to 60°C operating temperature
- IMC-P101-S-ST:** PoE industrial 10/100BaseT(X) to 100BaseFX media converter, single-mode port with ST connector, 0 to 60°C operating temperature
- IMC-P101-M-SC-T:** PoE industrial 10/100BaseT(X) to 100BaseFX media converter, multi-mode port with SC connector, -40 to 75°C operating temperature
- IMC-P101-M-ST-T:** PoE industrial 10/100BaseT(X) to 100BaseFX media converter, multi-mode port with ST connector, -40 to 75°C operating temperature
- IMC-P101-S-SC-T:** PoE industrial 10/100BaseT(X) to 100BaseFX media converter, single-mode port with SC connector, -40 to 75°C operating temperature
- IMC-P101-S-ST-T:** PoE industrial 10/100BaseT(X) to 100BaseFX media converter, single-mode port with ST connector, -40 to 75°C operating temperature

Package Checklist

- 1 IMC-P101 media converter
- Hardware installation guide (printed)
- Warranty card

Optional Accessories (can be purchased separately)

WK-51: Wall mounting kit

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



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