



Model IMC-101 Series
Industrial Media Converter
Industrial 10/100BaseT(X) to 100BaseFX
Media Converter

Overview

Link Fault Pass-Through

IMC-101's "Link Fault Pass-Through" feature overcomes a problem encountered when using traditional media converters. The problem is this: when one side of the link fails, the other side continues transmitting packets, and then waits for a response that never arrives from the disconnected side.

What IMC-101 does is force the link to shut down as soon as it notices that the other link has failed, giving the application software a chance to react to the situation.

Redundant Power Inputs

IMC-101 provides two power inputs that can be connected simultaneously to live DC power sources. If one power input fails, the other source acts as a backup, and automatically satisfies IMC-101's power needs.

Relay Output Alarm by Port Break, Power Failure

IMC-101 provides relay contact outputs to warn technicians on the shop floor when the power fails or a port link is disconnected, so they can respond quickly with appropriate emergency operation procedures.

Features

- Supports 10/100BaseT(X) auto-negotiation and auto-MDI/MDIX
- Multi mode, single mode with SC or ST fiber connector available
- Supports Link Fault Pass-Through
- Relay output alarm when a port breaks or the power fails
- Redundant 12 to 48 VDC power inputs, DIN-Rail or panel mountable

Specifications

Interface

RJ45 Ports	10/100BaseT(X)
Fiber Ports	100BaseFX (SC, ST connectors available)
LED Indicators	Power, Fault, 10/100, Full/Half Duplex, Collision
Dip Switch	100BaseFX Full/Half duplex selection, Port break alarm mask
Alarm Contact:	One relay output with current carrying capacity of 1A @ 24 VDC

Technology

Standards	IEEE802.3, 802.3u, Link Fault Pass-Through
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International Headquarters:

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Optical Fiber

Distance Single-mode fiber for 15 km,
Multi-mode fiber for 2 km
Wavelength 1310 nm
Min.TX Output -20 dBm (IMC101-M), -15 dBm (IMC101-S)
Max.TX Output -14 dBm (IMC-101-M), -6 dBm (IMC-101-S)
Sensitivity -36 to -32 dBm (IMC101-M),
-34 to -32 dBm (IMC101-S)

Power

Input Voltage 12 to 48 VDC; Redundant inputs
Input Current 0.2A (@24V)
Connection Removable terminal block
Overload Current Protection 1.1A
Reverse Polarity Protection Present

Mechanical

Casing IP30 protection, aluminum case
Weight 0.63 kg
Dimensions 53.6 x 135 x 105 mm (W x H x D)
Installation DIN-rail, wall mounting

Environment

Operating Temperature 0 to 60°C (32 to 140°F)
Storage Temperature -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity 5 to 90% (non-condensing)

Regulatory Approvals

UL/CUL UL60950
TÜV EN60950
FCC Part 15 Class A
EMI EN55022
EMS EN61000-4-2 (ESD)
EN61000-4-3 (RS)
EN61000-4-4 (EFT)
EN61000-4-5 (Surge)
EN61000-4-6 (CS)
Shock IEC 60068-2-27
Free fall IEC 60068-2-32
Vibration IEC 60068-2-6
WARRANTY Five years

Models:

Description:

IMC-101-M-SC.....Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, SC fiber connector
IMC-101-M-ST.....Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, ST fiber connector
IMC-101-S-SC.....Industrial 10/100BaseT(X) to 100BaseFX media converter, single mode, SC fiber connector

All models include User's Manual

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