

Industrial Media Converter IMC-101

Industrial 10/100BaseT(X) to 100BaseFX Media Converter

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



IMC-101-M-SC IMC-101-M-ST IMC-101-S-SC



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.

Specifications (Preliminary*)

Technology

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

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

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

Connection: Removable Terminal Block

Overload Current Protection: Present

Reverse Polarity Protection: Present

Mechanical

Casing: IP30 protection, aluminum case

Dimensions (W x H x D): 53.6 x 135 x 105 mm

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: IEC60068-2-27

Free Fall: IEC60068-2-32

Vibration: IEC60068-2-6

WARRANTY

5 years

*These product specs are subject to change without notice.

Ordering Information

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 items include User's Manual