

IMC-21 Series

Entry-level Industrial 10/100BaseT(X) to 100BaseFX & 10BaseT to 10BaseFL Media Converter



Highlights

- ▶ Multi mode, single mode with SC or ST fiber connector
- ▶ Link Fault Pass-Through (LFP)
- ▶ Power inputs: 12 to 45 VDC, 18 to 30 VAC (47-63 Hz)
- ▶ -10 to 60°C operating temperature range
- ▶ DIP Switch to select FDX/HDX/10/100/Auto/Force
- ▶ DIN-Rail mounting ability



Features

Flexible Media Conversion Capability

- Multi mode, single mode with SC or ST fiber connector available
- DIP Switch to select FDX/HDX/10/100/Auto/Force
- Link Fault Pass-Through (LFP)

Industrial Rugged Design

- -10 to 60°C operating temperature range
- Case design meets IP30 protection standard

- Power inputs support 24 VDC or 24 VAC
- DIN-Rail mounting ability

Recommended Accessories

- DR series DIN-Rail 24 VDC power supplies

Introduction

IMC-21 industrial media converters are entry-level 10/100BaseT(X) to 100BaseFX and 10BaseT to 10BaseFL media converters that are specially designed for reliable and stable operation in harsh industrial environments. IMC-21 is a cost-effective solution that runs on either

a 12 to 45 VDC power input or 18 to 30 VAC power input. IMC-21 can operate reliably in temperatures ranging from -10 to 60°C, and the rugged hardware design helps ensure that your Ethernet equipment can withstand demanding industrial conditions.

Specifications

Technology

Standards: IEEE802.3, 802.3u, 802.3x

Interface

RJ45 ports:

- IMC-21 (10/100BaseT(X) to 100 BaseFX): 10/100BaseT(X)
- IMC-21 (10BaseT to 10BaseFL): 10BaseT

Fiber ports:

- IMC-21 (10/100BaseT(X) to 100 BaseFX): 100BaseFX (SC/ST connectors)
- IMC-21 (10BaseT to 10BaseFL): 10BaseFL (ST connector only)

LED Indicators:

- IMC-21 (10/100BaseT(X) to 100BaseFX): Power, 10/100M (TP port), 100M (Fiber port), FDX/COL (Fiber port)
- IMC-21 (10BaseT to 10BaseFL): Power, LNK/ACT (Fiber port), LNK and ACT (TP port)

DIP Switch:

- IMC-21 (10/100BaseT(X) to 100BaseFX):
 - TP port's 10/100M, Half/Full mode, and Force/Auto mode are DIP switch selectable
 - Fiber connection's Half/Full mode is DIP switch selectable
 - Link Fault Pass-Through (LFP) is DIP switch selectable
- IMC-21 (10BaseT to 10BaseFL): TP port's MDI/MDI-X and Half/Full mode are DIP Switch selectable

Optical Fiber

Distance: 10BaseFL: 2 km, 820 nm
 100BaseFX (Multi mode): 5 km, 1300 nm
 100BaseFX (Single mode): 40 km, 1310 nm

Min. TX Output: 10BaseFL: -16 dBm
 100BaseFX (Multi mode): -20 dBm
 100BaseFX (Single mode): -5 dBm

Max. TX Output: 10BaseFL: -7 dBm
 100BaseFX (Multi mode): -14 dBm
 100BaseFX (Single mode): 0 dBm

RX Sensitivity: 10BaseFL: -34.1 dBm
 100BaseFX (Multi mode): -34 to -30 dBm
 100BaseFX (Single mode): -36 to -32 dBm

Power

Input Voltage: 12 to 45 VDC, 18 to 30 VAC (47-63 Hz)

Power Consumption (@24V): 5W

Connection: Removable 3-contact Terminal Block

Overload Current Protection: 1.1A

Reverse Polarity Protection: Present

Mechanical

Casing: IP30 protection, plastic case

Dimensions (W x H x D): 25 x 109 x 97 mm
 0.98 x 4.29 x 3.82 in.

Weight: 125 g

Installation: DIN-Rail mounting

Environmental

Operating Temperature: -10 to 60°C (14 to 140°F)

Storage Temperature: -40 to 70°C (-40 to 158°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Regulatory Approvals

Safety: UL508, UL60950-1, CSA C22.2 No. 60950-1, EN60950-1

EMI: FCC Part 15, CISPR (EN55022) class A

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

Freefall: IEC60068-2-32

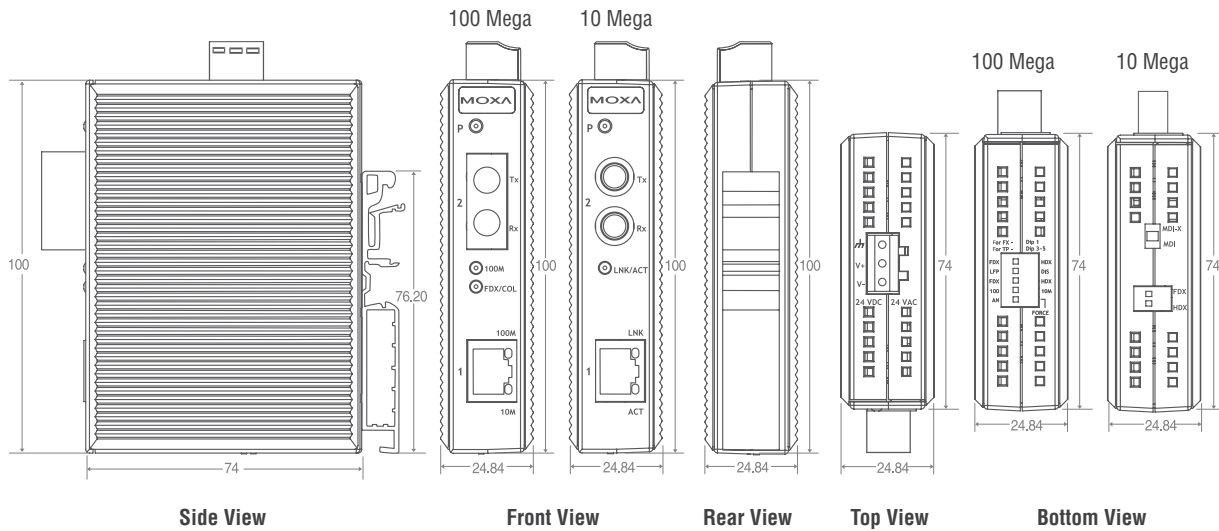
Vibration: IEC60068-2-6

MTBF: 353,000 hrs
 Data Base: MIL-HDBK-217F: GB 25°C

Warranty

5 years

Dimensions (unit = mm)



Ordering Information

- **IMC-21-M-SC:** Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, SC connector, -10 to 60°C
- **IMC-21-M-ST:** Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, ST connector, -10 to 60°C
- **IMC-21-S-SC:** Industrial 10/100BaseT(X) to 100BaseFX media converter, single mode, SC connector, -10 to 60°C
- **IMC-21-M-ST-FL:** Industrial 10BaseT to 10BaseFL media converter, multi mode, ST connector, -10 to 60°C

* All items include User's Manual.