

IMC102 Series

2-port Industrial Ethernet Media Converter

Features

1. IEEE802.3/802.3u/802.3x, store and forward
2. Plug-and-play, easy to installation
3. 10/100M, F/H duplex, MDI/MDI-X auto negotiation
4. -40 to 75°C operating temperature range
5. Designed for industrial applications. IP30 protection, rugged high-strength metal case



Introduction

IMC102 is a speediness 10/100Base-TX Industrial Ethernet Media Converter, easy to connect server, repeater, switch, device to device, Can satisfy customers require for long distance, high speed, wide broadcast. Beside this, IMC101 support electric working mode/rate setting, LFP, DIP switch outside, plug-and-play.

IMC102 series supports 2 TP ports and 1 fiber ports. TP(RJ45)

support 10/100Base-T(X), Full/Half duplex mode, and auto MDI/MDI-X connection; 100BaseFX supports single-/multi-mode, SC/ST connector, optional.

IMC102 adopt industry standard design, IP30 protection, rugged high-strength metal case, power supply input(12V ~ 36VDC), -40 to 75°C working temperature.

Specification

Standards: comply with IEEE802.1 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3 100Base-FX

RJ45 port rate: 10/100BaseT(X) auto connection, F /H duplex or force work mode, and support MDI/MDI-X connection

Fiber Ports: 100BaseFX ports (SC/ST connector, optional)
Single-mode: 20, 40, 60, 80, 120Km, optional
Multi-mode: 2, 5Km, optional

Wavelength: 850nm, 1310 nm, 1550nm

Typical 100Base-FX: Multi-mode: 155Mbps, 1310nm, 2Km, average output ≥ -18 dBm, sensitivity ≤ -35 dBm
Single-mode: 155Mbps, 1310nm, 20Km, average output ≥ -12 dBm, sensitivity ≤ -36 dBm

Power

Input Voltage: 24VDC (12VDC~36VDC)

Opposite connection protection

Mechanical

Dimensions: 103mm×78mm×32mm (H×W×D)

Casing: IP30 protection, Metal case

Weight: 350g

Environmental

Operating Temperature: -40 to 75°C

Storage Temperature: -45 to 85 °C

Ambient Relative Humidity: 10% to 95% (non-condensing)

Approvals

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

EMS: EN61000-4-2(ESD), level 4

EN61000-4-3(RS), level 3

EN61000-4-4(EFT), level 4

EN61000-4-5 (Surge), level 4

EN61000-4-6 (CS), level 3

EN61000-4-8, level 5

Shock: IEC 60068-2-27 PASS

Free Fall: IEC 60068-2-32 PASS

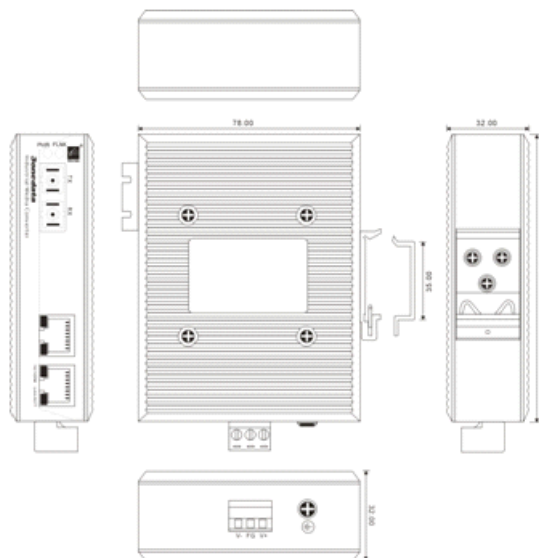
Vibration: IEC 60068-2-6 PASS

Warranty: 5 years

Packing List

1. Industrial Media Converter IMC102 series (plus terminal block)×1
2. User manual ×1
3. DIN-Rail fittings ×1

Dimension



Ordering Information

Model NO.	Description
IMC102-M	multi-mode, 2Km, 12~36VDC, SC, ST, optional
IMC102-S/20	single-mode, 20Km, 12~36VDC, SC, ST, optional
IMC102-S/40	single-mode, 40Km, 12~36VDC, SC, ST, optional
IMC102-S/60	single-mode, 60Km, 12~36VDC, SC, ST, optional
IMC102-S/80	single-mode, 80Km, 12~36VDC, SC, ST, optional
IMC102-S/100	single-mode, 100Km, 12~36VDC, SC, ST, optional
IMC102-S/120	single-mode, 120Km, 12~36VDC, SC, ST, optional
IMC102-SS/20	single-mode, single fiber, 20Km, 12~36VDC, SC, ST, optional
IMC102-SS/40	single-mode, single fiber, 40Km, 12~36VDC, SC, ST, optional
IMC102-SS/60	single-mode, single fiber, 60Km, 12~36VDC, SC, ST, optional
IMC102-SS/80	single-mode, single fiber, 80Km, 12~36VDC, SC, ST, optional