# IMC-370I

## 10/100/1000Mbps Miniature Media Converter

## Features

- Metal enclosure with compact size
- Industrial grade design that supports an extended operating temperature range
- Provides status LED
- NEMA TS2 for traffic control
- Supports multiple power options: AC or DC adapter and dual USB cable
- IEEE 802.3af compliant PoE-PD
- Supports Link Fault Pass Through (LFPT)
- Support centralized powered IMC-318I Chassis

## Introduction

The IMC-370I series offers the most compact media converters. They can extend the 10/100/1000Mbps twisted-pair network segments up to 80km over fiber technology. Supporting both 10/100/1000 auto negotiation on the copper port and 1000Mbps full-duplex on the fiber port, the IMC-370I series serves as a media and data rate converter that has NEMA TS2 rating, making it ideal for use in traffic applications.

The IMC-370I series supports Link Fault Pass Through (LFPT) functionality which can be enabled/disabled by a DIP switch on the unit. LFPT is a troubleshooting feature that combines TX LinkLoss (Twisted Pair, copper interface) and FX LinkLoss (Fiber, fiber interface) from both local and remote IMC Networks media converters, when used in pairs. This feature, when enabled, will pass a link fault through the device at each segment. If a link fails on one interface of the media converter, the media converter will force the link down on its link partner and then forward it to the next interface.

The IMC-370I supports plug-n-play functionality, auto negotiation, and AutoCross operation. It can be powered by AC/DC power, dual USB cable, or via installation in the centrally-powered media converter chassis.

## Specifications

| Technical |
|---|
| IEEE 802.3, 802.3u, 802.3ab, 802.3z |
| IEEE 802.3af compliant PoE-PD |
| Supports jumbo frames up to 16K bytes |
| Plug-and-play operation |
| Status LED |
| AutoCross for MDI/MDIX |
| Supports Link Fault Pass Through (LFPT) |
| Terminal DC power block |
| **Power Input** |
| 7 – 50$V_{DC}$, 1A (DC input) |
| 100-240 $V_{AC}$, 50-60Hz, 0.3A (AC input)* |
| 5$V_{DC}$ ( Barrel Connector)* |

* additional accessories is required

| Environment | |
|---|---|
| Operating Temperature | -25 to +75 °C (-13 to +167 °F)* |
| Storage Temperature | -40 ~ 85°C (-40 ~ 185°F) |
| Operating Humidity | 10 ~ 95% (non-condensing) |
| | 0 ~ 10,000 ft. altitude |
| MTBF | 109,243 hours |
| **Mechanical** | |
| Dimensions (H x W x D) | 2.11 x 4.57 x 8.51 cm (0.83 x 1.80 x 3.35 in) |
| Weight | 0.317 kg (0.7 lb) |
| **Certifications** | |
| CE, FCC Class A, UL/cUL | |
| NEMA TS2 for traffic control | |

* Temperature may change with addional accessory

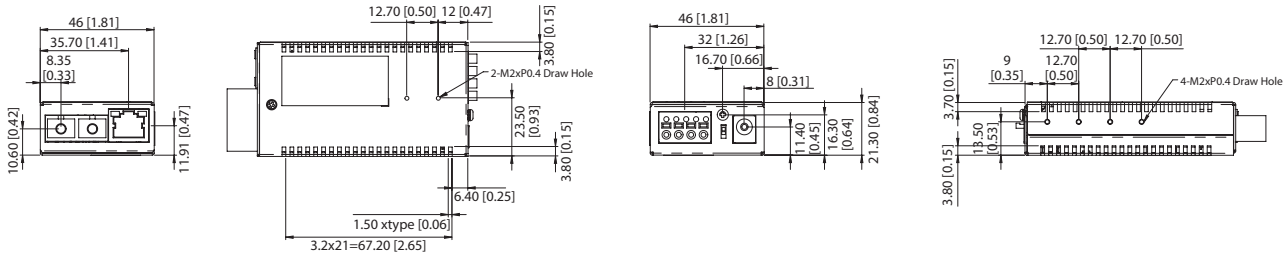


Last updated: 15-Feb-2024

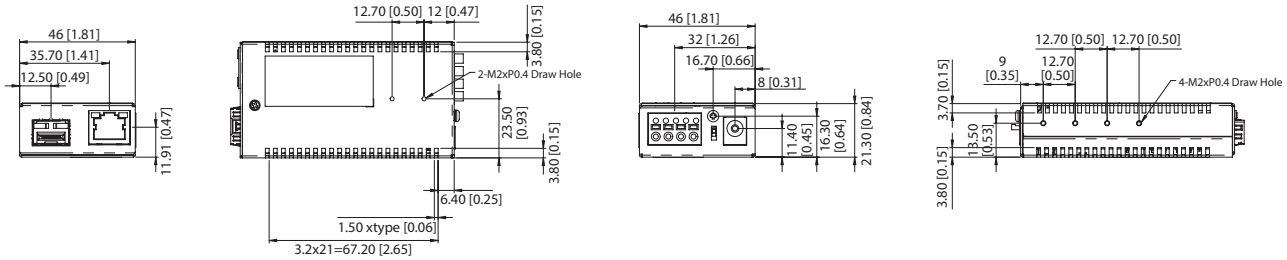
## Dimensions

Unit: mm [inch]

### IMC-370I




### IMC-370I-SFP




## Ordering Information

| Part Number | Optical Mode | Typical Wavelength | Typical Distance | Optical Connector |
|---|---|---|---|---|
| IMC-370I-MM-C | Multi-mode | 850nm | 550 m | SC |
| IMC-370I-SM-C | Single-mode | 1310nm | 10 km | SC |
| IMC-370I-SE-C | Single-mode | 1310nm | 40 km | SC |
| IMC-370I-SSR-C | Bi-Directional | 1550nm Tx / 1310nm Rx | 10 km | Single SC |
| IMC-370I-SST-C | Bi-Directional | 1310nm Tx / 1550nm Rx | 10 km | Single SC |
| IMC-370I-SFP-C | * | * | * | * |

* additional SFP is required, available at www.advantech.com

## Fiber Optical

| | | 1000Base FX | | | | |
|---|---|---|---|---|---|---|
| | | Multi-Mode | Single-Mode | | Bi-Directional | |
| **Fiber Cable Type** | | **OM1/OM2** | **G.652** | **G.652** | **G.652** | **G.652** |
| **Typical Distance** | | 550 m | 10 km | 40 km | 10 km | 10 km |
| **Wavelength** | Typical (nm) | 850 | 1310 | 1310 | 1310TX/1550RX | 1550TX / 1310RX |
| | TX Range (nm) | 830 ~ 860 | 1260 ~ 1360 | 1280 ~ 1360 | 1260 ~ 1360 | 1530 ~ 1570 |
| | RX Range (nm) | 770 ~ 860 | 1260 ~ 1360 | 1100 ~ 1600 | 1480 ~ 1580 | 1270 ~ 1355 |
| **Optical Power** | TX Range ( dBm) | -9.5 ~ -4 | -9.5 ~ -3 | -2 ~ 3 | - 9 ~ -3 | - 9 ~ -3 |
| | RX Range (dBm) | -3 ~ -17 | -3 ~ -20 | -3 ~ -23 | -2 ~ -21 | -2 ~ -21 |
| | Link Budget (dB) | 7.5 | 10.5 | 21 | 12 | 12 |
| | Dispersion Penalty (dB) | NA | NA | 3 | NA | NA |

## Accessories (Optional)

| Part No. | Description |
|---|---|
| BB-806-39720 | AC POWER ADAPTER for IMC-350I and IMC-370I series* |
| BB-806-39628 | USB Power Cable 36" for IMC-350I and IMC-370I series |
| BB-806-39629 | USB Power Cable 12" for IMC-350I and IMC-370I series |
| BB-806-39638 | Dual-USB Power Cable for IMC-350I and IMC-370I series |
| IMC-318I | 19"18-slot Chassis for IMC-350I and IMC-370I series |
| BB-895-39229 | BRACKET, WALLMOUNT for IMC-300 series |

*operation temperature: -10 to 50°C (+14 to +122°F)