

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
- 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	
Supports jumbo frames up to 12K bytes	
Plug-and-play operation	
Status LED	
AutoCross for MDI/MDIX	
Supports Link Fault Pass Through (LFPT)	
Terminal DC power block	
Power Input	
7 – 50V _{DC} , 1A (DC input)	
100-240 V _{AC} , 50-60Hz, 0.3A (AC input)*	
5V _{DC} (Barrel Connector)*	

* additional accessories is required

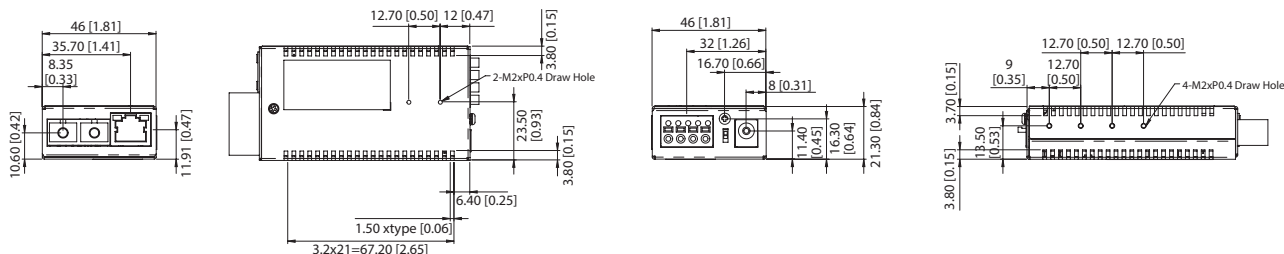
Environment	
Operating Temperature	-25 to +75 °C (-13 to +167 °F)*
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% (non-condensing)
	0 ~ 10,000 ft. altitude
MTBF	108,315 hours
Mechanical	
Dimensions (H x W x D)	2.11 x 4.57 x 8.51 cm (0.83 x 1.80 x 3.35 in)
Weight	0.317 kg (0.7 lb)
Certifications	
CE, FCC Class A, UL/cUL	
NEMA TS2 for traffic control	

* Temperature may change with additional accessory

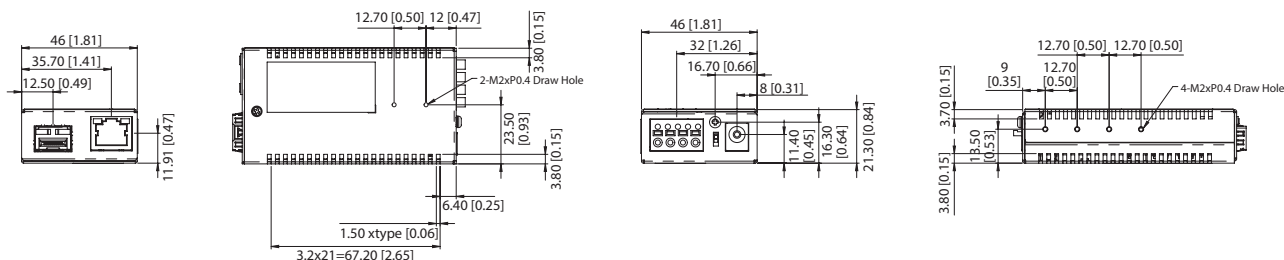
Dimensions

Unit: mm [inch]

IMC-370I



IMC-370I-SFP



Ordering Information

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

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

Fiber Optical

		1000Base FX				
		Multi-Mode	Single-Mode		Bi-Directional	
Fiber Cable Type	Typical Distance	OM1/OM2	G. 652	G. 652	G. 652	G. 652
		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)