

IMC-350I

10/100Mbps Miniature Media Converter



Features

- Metal enclosure with compact size
- Industrial grade design that supports an extended operating temperature
- NEMA TS2 for traffic control
- Support multiport power options: AC or DC adapter and dual USB cable
- IEEE802.3af compliant (as PoE-PD)
- Supports Link Fault Pass Through (LFPT)
- Support centralized powered IMC-318I chassis

Introduction

The IMC-350I series offers the most compact media converters. They can extend the 10 and 100Mbps twisted pair network segments up to 80km over fiber technology. Supporting both 10/100 auto negotiation on the copper port and 100Mbps full-duplex on the fiber port.

Plug-and-play operation with a variety of model types and power options make the IMC-350I series easy and convenient to use. The IMC-350I series is of industrial grade and can operate in a wide temperature range. Multiple power options, including the IEEE802.3af Power-over-Ethernet standard, allow the IMC-350I series to function as a power device. Its AC adapter and USB connectivity offer unsurpassed flexibility for a variety of installation needs.

The IMC-350I series supports Link Fault Pass Through (LFPT) functionality. 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.

Specifications

Technical	
IEEE 802.3, 802.3u	
IEEE 802.3af compliant PoE-PD	
Support jumbo frames up to 16K	
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)*	
42.5-50V _{DC} , 0.6A (PoE input)	

* additional accessories is required

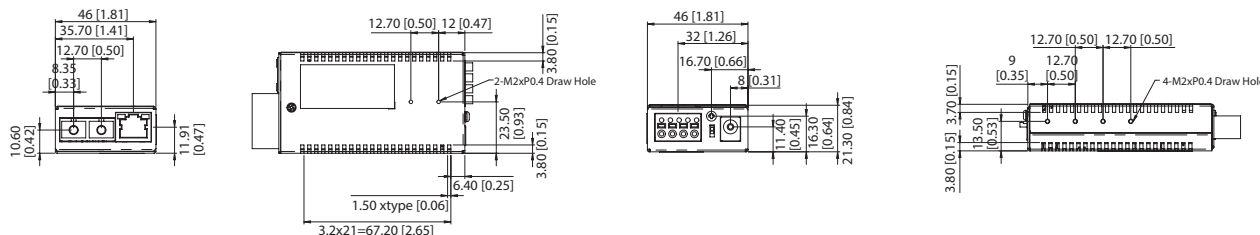
Environment	
Operating Temperature	-25 ~ 75°C
Storage Temperature	-40 to +85 °C (-40 to +185 °F)
Operating Humidity	10 ~ 95% (non-condensing)
	0 ~ 10,000 ft. altitude
MTBF	109,243 Hours
Mechanical	
Dimensions (H x W x D)	2.11 x 4.57 x 8.51 cm (0.83 x 1.80 x 3.35 in)
Weight	0.317 kg (0.7 lb)
Certifications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

* Temperature may change with additional accessories

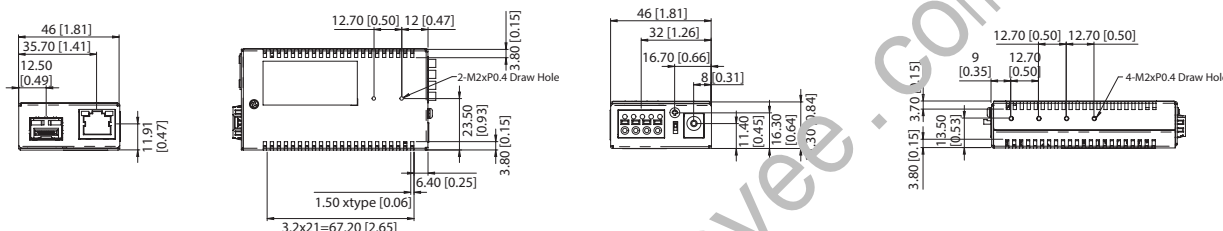
Dimensions

Unit: mm [inch]

IMC-350I



IMC-350I-SFP



Ordering Information

Part No.	Optical Mode	Typical Wavelength	Typical Distance	Optical Connector
IMC-350I-M8-B	Multi-mode	850nm	2 km	SC
IMC-350I-M8ST-B	Multi-mode	850nm	2 km	ST
IMC-350I-MM-B	Multi-mode	1310nm	4 km	SC
IMC-350I-MMST-B	Multi-mode	1310nm	4 km	ST
IMC-350I-SE-B	Single-mode	1310nm	40 km	SC
IMC-350I-SL-B	Single-mode	1550nm	80 km	SC
IMC-350I-SST-B	Bi-Directional	1310nm Tx / 1550nm Rx	20 km	Single SC
IMC-350I-SSR-B	Bi-Directional	1550nm Tx / 1310nm Rx	20 km	Single SC
IMC-350I-SFP-B	*	*	*	*

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

Fiber Optical

Fiber Cable Type	100Base FX						
	Multi-Mode		Single-Mode		Bi-Directional		
	OM1/ OM2	OM1/ OM2	G.652	G.652	G.652	G.652	
Typical Distance	2KM	4KM	40KM	80KM	20KM	20KM	
Wavelength	Typical (nm)	850	1300	1310	1550	1310TX/1550RX	1550TX/1310RX
	TX Range (nm)	830 ~ 860	1270 ~ 1380	1260 ~ 1360	1260 ~ 1600	1260 ~ 1360	1480 ~ 1580
	RX Range (nm)	780 ~ 860	1270 ~ 1380	1260 ~ 1600	1260 ~ 1600	1480 ~ 1580	1260 ~ 1360
Optical Power	TX Range (dBm)	-10 ~ -4	-23.5 ~ -14	-15 ~ -8	-6 ~ 0	-14 ~ -8	-14 ~ -8
	RX Range (dBm)	-3 ~ -24	-8 ~ -32	-5 ~ -34	-3 ~ -36	-3 ~ -32	-3 ~ -32
	Link Budget (dB)	14	8.5	19	30	18	18
	Dispersion Penalty (dB)	1	3	1	1	1	1

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)