

# IMC-350 LFPT

## 10/100Mbps Miniature Media Converter with LFPT



### Features

- Metal enclosure with compact size
- Industrial grade design that supports an extended operating temperature (IMC-350I series)
- NEMA TS2 for traffic control
- IEEE802.3af compliant (IMC-350I series as PoE-PD)
- Supports Link Fault Pass Through (LFPT)
- Centralized powered IMC-318I chassis

### Introduction

The IMC-350 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, the IMC-350 series serves as media and data rate converter that have NEMA TS2 rating, making it ideal for use in traffic applications.

Plug-and-play operation with a variety of model types and power options make the IMC-350 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-350 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 (IMC-350I)             |  |
| Supports jumbo frames up to 1916 bytes               |  |
| Plug-and-play operation                              |  |
| Status LED   |  |
| AutoCross for MDI/MDIX                               |  |
| Supports Link Fault Pass Through (LFPT)              |  |
| Terminal DC power block (IMC-350I)                   |  |
| Power Input  |  |
| 100 – 240V DC, 50-60Hz, 0.3A (IMC-350/350I AC input) |  |
| 7 – 50V DC, 1A (IMC-350I DC input)                   |  |
| 5V DC (Barrel Connector)                             |  |
| 42.5-50VDC, 0.6A (IMC-350I PoE-PD input)             |  |

| Environment  |   |
|--|---|
| Operating Temperature  | 0 to +50 °C (+32 to +122 °F) (IMC-350)                    |
|  | -25 ~ 85°C (-13 ~ 185°F)<br>(IMC-350I DC or PoE-PD input) |
|  | -10 to +50 °C (+14 to +122 °F) (IMC-350I AC input)        |
| Storage Temperature  | -35 ~ 75°C (-31 ~ 167°F) (IMC-350 series)                 |
|  | -40 to +85 °C (-40 to +185 °F) (IMC-350I series)          |
| Operating Humidity   | 10 ~ 95% (non-condensing)                                 |
|  | 0 ~ 10,000 ft. altitude                                   |
| MTBF   | 109,575 Hours (IMC-350 series)                            |
|  | 162,935 Hours (IMC-350I series)                           |
| 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 B, UL/cUL, CSA (IMC-350, IMC-350I using any DC jack) |   |
| CE, FCC Class A, UL/cUL, CSA (IMC-350I using any DC jack)          |   |
| NEMA TS2 for traffic control                                       |   |

## Dimensions

Unit: mm [inch]

### IMC-350I



### IMC-350I-SFP



## Ordering Information

### 10/100 Mbps Miniature Media Converter

| Part Number       | Optical Mode  | Wavelength  | Distance | Optical Connector | Power Adapter  |
|-------------------|---------------|-------------|----------|-------------------|----------------|
| IMC-350-M8ST-PS-A | Multi-Mode    | 850 nm      | 2 km     | ST                | Yes            |
| IMC-350-M8ST-A    | Multi-Mode    | 850 nm      | 2 km     | ST                | -              |
| IMC-350-M8-PS-A   | Multi-Mode    | 850 nm      | 2 km     | SC                | Yes            |
| IMC-350-M8-A      | Multi-Mode    | 850 nm      | 2 km     | SC                | -              |
| IMC-350-MMST-PS-A | Multi-Mode    | 1300 nm     | 5 km     | ST                | Yes            |
| IMC-350-MM-PS-A   | Multi-Mode    | 1300 nm     | 5 km     | SC                | Yes            |
| IMC-350-SEST-PS-A | Single-Mode   | 1310 nm     | 40 km    | ST                | Yes            |
| IMC-350-SE-PS-A   | Single-Mode   | 1310 nm     | 40 km    | SC                | Yes            |
| IMC-350-SL-PS-A   | Single-Mode   | 1310 nm     | 80 km    | SC                | Yes            |
| IMC-350-SSMT-PS-A | Single-Strand | 1310T/1550R | 2 km     | SC                | Yes            |
| IMC-350-SSMR-PS-A | Single-Strand | 1550T/1310R | 2 km     | SC                | Yes            |
| IMC-350-SST-PS-A  | Single-Strand | 1310T/1550R | 20 km    | SC                | Yes            |
| IMC-350-SSR-PS-A  | Single-Strand | 1550T/1310R | 20 km    | SC                | Yes            |
| IMC-350-SFP-PS-A  | Various       | Various     | Various  | SFP               | Yes            |
| IMC-350-MMST-A    | Multi-Mode    | 1300 nm     | 5 km     | ST                | -              |
| IMC-350-MM-A      | Multi-Mode    | 1300 nm     | 5 km     | SC                | -              |
| IMC-350-USB-A     | Multi-Mode    | 850 nm      | 2 km     | SC                | Powered by USB |
| IMC-350-SEST-A    | Single-Mode   | 1310 nm     | 40 km    | ST                | -              |
| IMC-350-SE-A      | Single-Mode   | 1310 nm     | 40 km    | SC                | -              |
| IMC-350-SL-A      | Single-Mode   | 1310 nm     | 80 km    | SC                | -              |
| IMC-350-SFP-A     | Various       | Various     | Various  | SFP               | -              |

## Industrial Grade 10/100 Mbps Miniature Media Converter

| Part Number        | Optical Mode  | Wavelength  | Distance | Optical Connector | Power Adapter |
|--------------------|---------------|-------------|----------|-------------------|---------------|
| IMC-350I-M8ST-PS-A | Multi-Mode    | 850 nm      | 2 km     | ST                | Yes           |
| IMC-350I-M8ST-A    | Multi-Mode    | 850 nm      | 2 km     | ST                | -             |
| IMC-350I-M8-PS-A   | Multi-Mode    | 850 nm      | 2 km     | SC                | Yes           |
| IMC-350I-M8-A      | Multi-Mode    | 850 nm      | 2 km     | SC                | -             |
| IMC-350I-MMST-PS-A | Multi-Mode    | 1300 nm     | 5 km     | ST                | Yes           |
| IMC-350I-MM-PS-A   | Multi-Mode    | 1300 nm     | 5 km     | SC                | Yes           |
| IMC-350I-SEST-PS-A | Single-Mode   | 1310 nm     | 40 km    | ST                | Yes           |
| IMC-350I-SE-PS-A   | Single-Mode   | 1310 nm     | 40 km    | SC                | Yes           |
| IMC-350I-SL-PS-A   | Single-Mode   | 1310 nm     | 80 km    | SC                | Yes           |
| IMC-350I-SST-PS-A  | Single-Strand | 1310T/1550R | 20 km    | SC                | Yes           |
| IMC-350I-SSR-PS-A  | Single-Strand | 1550T/1310R | 20 km    | SC                | Yes           |
| IMC-350I-SFP-PS-A  | Various       | Various     | Various  | SFP               | Yes           |
| IMC-350I-MMST-A    | Multi-Mode    | 1300 nm     | 5 km     | ST                | -             |
| IMC-350I-MM-A      | Multi-Mode    | 1300 nm     | 5 km     | SC                | -             |
| IMC-350I-SEST-A    | Single-Mode   | 1310 nm     | 40 km    | ST                | -             |
| IMC-350I-SE-A      | Single-Mode   | 1310 nm     | 40 km    | SC                | -             |
| IMC-350I-SST-A     | Single-Strand | 1310T/1550R | 20 km    | SC                | -             |
| IMC-350I-SSR-A     | Single-Strand | 1550T/1310R | 20 km    | SC                | -             |

## Accessories

| Part Number | Description                                |
|-------------|--|
| 806-39105   | DIN Rail Clip                              |
| 806-39628   | USB Power Cable, 0.9m (36 in)              |
| 806-39629   | USB Power Cable, 0.3m (12 in)              |
| 806-39650   | Barrel Connector Power Cable, 0.3m (12 in) |
| 895-39229   | Wall-mount Bracket                         |
| 806-39720   | AC Power Adapter                           |

\* SFP fibers sold separately – available at [www.advantech.com](http://www.advantech.com)